



Acsc2	A2AQN4	-0.62	-0.49	-0.26	-0.37	-0.32	-0.75	-0.23	-0.39	-1.06	-0.69	-0.13	-0.46	-0.71	-0.81	-0.62	-0.54	0.0125	-0.15	-0.235	0.945122	0.534245	0.221207	1	0.99551	0.787447
Actb	P60710	0.97	0.51	0.54	0.69	0.72	0.85	0.72	1.09	0.42	0.28	0.73	0.92	-0.06	0.36	0.3	0.64	0.6175	-0.09	-0.3675	0.367408	0.680847	0.130087	1	0.99551	0.727859
Actb2	Q8B7F9	0.01	0.83	0.73	1.62	0.93	2.55	1.63	2.11	1.02	0.77	0.95	1.06	-1.36	-0.66	2.02	2.37	1.025	-0.875	-0.211	0.038658	0.264172	0.81397	1	0.99551	0.972768
Actb3	P68033	-0.01	0.19	-0.11	0.31	0.26	-0.03	-0.01	0.24	0.57	1.21	0.19	-0.02	0.59	1	-0.83	-0.96	0.02	0.3925	-0.145	0.900828	0.204826	0.759964	1	0.99551	0.963123
Actb4	P63260	-0.11	0.39	0.02	0.21	0.64	-0.45	0.93	0.21	0.7	0.66	-0.12	-0.36	-0.47	1.07	0.25	0.55	0.205	0.0925	0.2225	0.518438	0.756733	0.518103	1	0.99551	0.906668
Actb6a	Q9Z2N8	-0.72	-1.74	-1.25	-0.93	-1.09	-1.17	-1.09	-0.89	-0.79	-0.91	-1.29	-1.1	-1.33	-0.16	-1.19	0.1	0.1375	0.0875	0.683224	0.605514	0.81661	1	0.99551	0.972768	
Actb6b	Q9PM90	-0.17	-1.15	-1.46	-0.93	-1.13	-0.72	-1.25	-1.66	-0.43	0.44	-1.57	-0.61	-0.46	-0.7	-1.26	1.55	0.1325	0.0375	-0.115	0.395	0.792387	0.70062	1	0.99551	0.965033
Actc1	A1BNS4	1.93	0.83	1.14	1.03	1.01	1.64	1.01	1.12	0.38	0.36	1.11	1.19	0.12	0.74	0.62	0.79	-0.0375	-0.4725	-0.665	0.895527	0.175463	0.950038	1	0.99551	0.658454
Actc1b	Q7TP84	9.06	1.26	5.22	0.72	2.45	8.65	8.61	4.93	0.46	0.84	5.66	0.65	0.55	-0.22	5.44	7.38	2.095	-0.6625	-0.7775	0.352868	0.768224	0.744064	1	0.99551	0.959371
Actc2	Q9J951	1.6	0.98	1.74	1.18	0.93	1.03	2.1	1.9	0.96	0.69	1.48	1.29	0.9	0.7	1.69	1.47	0.04	-0.425	-0.34	0.906406	0.444634	0.288793	1	0.99551	0.824705
Actc4	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32	0.1	0.64	0.82	0.1	0.64	-0.55	0.77	0.125	-0.875	-0.3375	0.589846	0.720212	0.432564	1	0.99551	0.757516
Actc4b	A041LV5L	1.06	0.77	0.86	0.73	0.93	1.63	1.04	0.98	0.32																

Alk4	Q9WUR9	0.35	0.58	0.52	0.43	0.37	0.4	0.6	0.44	0.07	0.47	0.73	0.17	0.07	0.41	0.09	0.34	-0.0175	-0.11	-0.2425	0.906452	0.59371	0.21111	1	0.99551	0.786269	
Alk5	Q9Z0P5	-0.66	-0.56	-0.65	-0.63	-0.36	-0.67	-0.78	-0.71	-0.29	-0.23	-0.67	-0.49	-0.03	0.01	-0.74	-0.78	-0.005	0.205	0.24	0.74987	0.259842	0.352139	1	0.99511	0.854088	
Alkap1	Q06715	0.28	0.34	0.03	0.18	0.1	0.49	0.06	0.22	0.67	0.38	0.29	0.4	0.1	0.78	0.26	0.28	0.1	0.005	0.2525	0.2225	0.37734	0.169367	0.387404	1	0.99511	0.824705
Alkap10	Q08845	0.71	0.63	0.82	0.24	0.78	0.72	0.69	0.7	-0.16	-0.14	0.7	0.7	0.01	-0.16	0.54	0.57	0.1225	-0.35	-0.36	0.457239	0.274444	0.182619	1	0.99511	0.776002	
Alkap11	E90777	-0.31	-0.01	0.18	-0.02	0.19	-0.33	-0.33	-0.07	0.11	0.03	-0.17	0.04	-1.09	1.17	-0.56	0.03	0.0425	-0.0725	-0.380828	0.815465	0.876285	1	0.99511	0.979626		
Alkap12	Q9WT05	0.37	0.44	0.54	0.63	0.16	0.13	0.51	0.76	1.05	1.18	0.73	0.84	-0.89	0.92	1.08	0.79	-0.25	0.4455	0.425	0.595244	0.013553	0.038052	1	0.99511	0.658454	
Alk23A	E92394-2	1.22	0.58	1.57	1.01	1.4	-2.3	2.13	2.08	-1.52	-0.57	0.53	2.3	-0.89	-1.5	0.42	2.1	-0.48	0.3175	0.17	0.356028	0.526428	0.766145	1	0.99511	0.964134	
Alk25	H3BV5	2	1.25	0.96	1.68	0.86	1.07	0.93	1.2	1.65	1	0.86	1.38	1.42	1.66	0.99	0.59	-0.4575	-0.25	-0.3075	0.098262	0.411691	0.366963	1	0.99511	0.858904	
Alk26	Q9K9K8	0.72	0.94	0.62	0.07	0.73	0.71	0.82	0.3	0.25	0.81	0.35	1.19	0.93	0.66	0.83	0.67	0.0525	0.0625	0.185	0.823716	0.831357	0.442863	1	0.99511	0.883549	
Alkap7	Q7N7N9	1.39	1.59	1.26	1.11	1.39	1.34	1.02	0.89	1.87	1.19	1.13	1.45	1.7	2.1	1.55	0.76	-0.175	0.2525	0.1925	0.3818	0.30671	0.338241	1	0.99511	0.912122	
Alk29	Q9D980	-0.26	-0.72	-0.62	-0.72	-0.62	-0.72	-0.62	-0.72	-0.64	-0.72	-0.64	-0.72	-0.64	-0.72	-0.64	-0.72	-0.64	-0.72	-0.64	-0.72	0.187875	0.538327	0.683475	1	0.99575	0.955729
Alk29A	Q04548B9	0.14	-1.13	-0.7	-0.73	-1.68	-0.47	-1.09	-0.3	-0.19	-0.48	-0.9	-0.63	-1.48	0.76	-0.72	-0.3	1.25	-0.2525	-0.2675	0.237444	0.641137	0.683206	1	0.99511	0.941132	
Alk39	E9Q010	-0.72	-0.96	-1.62	-1.45	-0.85	-1.09	-1.26	-1.56	-0.75	-1.27	-1	-0.64	-0.63	-1.07	-1.29	-0.0025	0.2925	0.28	0.992453	0.302227	0.338757	1	0.99511	0.847578		
Alk191	Q91I86	-0.47	0.06	-0.08	-0.65	-0.34	0.45	-0.53	-0.29	0.41	-1.02	-0.3	0.23	0.82	-0.7	-0.46	-0.82	-0.1775	-0.12	-0.24	0.683301	0.7535	0.573691	1	0.99511	0.925747	
Alk181	P45376	0	-0.91	-0.64	-0.76	-0.57	0.01	-0.51	-0.75	-1.46	-0.55	-0.68	-0.04	-1.44	-1.09	-0.82	-0.95	0.1225	-0.105	-0.4875	0.646383	0.73688	0.089356	1	0.99511	0.681217	
Alk110	G5E893	1.22	0.59	0.89	0	1.14	1.43	0.76	0.74	1.05	0.98	0.96	0.7	-1.27	-0.85	0.61	1	0.3425	-0.7675	-0.8005	0.278095	0.186528	0.172141	1	0.99511	0.772068	
Alk179	P21300	-1.02	-0.74	-1.49	-0.81	-0.37	-1.87	-0.99	-4.08	-2.07	-1.78	-0.55	-2.69	0.31	-1.29	-2.25	0.0875	-0.7175	-0.465	0.1804	0.12817	0.146499	1	0.99511	0.888267		
Alk172	Q9C071	-0.66	-0.7	-1.19	-1.2	-0.29	-0.8	-0.92	-1.08	-1.05	-1.24	-1.1	-0.9	-1.29	-0.49	-1.5	-1.43	-0.165	-0.135	-0.24	0.50051	0.522455	0.421122	1	0.99511	0.875639	
Alk262	Q8C766	-0.02	0.13	0.17	0.29	-0.07	-0.14	-0.02	0.06	-0.14	-0.06	-0.02	-0.39	0.17	-0.49	-0.07	0.27	-0.185	-0.295	-0.3075	0.240429	0.120607	0.171151	1	0.99511	0.762774	
Alk1	P31750	0.55	0.75	0.99	-0.37	-0.18	-0.38	0.89	0.68	0.64	-0.17	0.27	0.12	0.76	-1.07	1.44	-1.49	-0.0235	-0.195	-0.1975	0.888917	0.450231	0.521303	1	0.99511	0.907867	
Alk151	Q9O174	2.17	0.9	0.45	0.28	0.81	1.78	1.09	0.24	0.94	0.39	0.61	1.74	0.37	1.14	-0.13	0.22	0.03	-0.03	-0.55	0.951421	0.950598	0.263958	1	0.99575	0.816405	
Alk21	G06823	-0.43	-0.38	0.21	0.21	0.17	0.09	0.73	0.08	0.06	0.01	-0.15	-0.22	0.15	-0.24	-0.09	0.365	0.055	-0.0025	0.167658	0.802822	0.991636	1	0.99511	0.996154		
Alk26	Q9WU46	-0.46	-0.37	-0.22	0.44	-0.1	-0.51	-0.23	0.38	-0.46	0.28	0.02	-0.2	-0.57	0.03	-0.12	-0.23	0.0375	0.0625	-0.07	0.889305	0.818555	0.792947	1	0.99511	0.96983	
Alk19	D32532	-2.33	-2.17	-1.07	-1.44	-1.82	-2.18	-0.98	-1.37	-2.78	-0.34	-1.14	-2.54	-2.94	-1.16	-1.41	-1.58	0.215	0.1025	0.03	0.588666	0.86629	0.950203	1	0.99511	0.992476	
Alk3	P10518	-0.59	-0.76	-0.85	-0.73	-0.7	-0.75	-1.2	-0.97	-0.82	-0.78	-1.2	-0.72	-0.99	-0.07	-1.46	-1.19	-0.275	-0.1475	-0.195	0.338742	0.431131	0.539795	1	0.99511	0.912122	
Alb	P07724	-5.88	-7.07	-4.97	-4.85	-5.67	-5.72	-4.64	-0.53	-6.39	-3.03	-4.78	-5.44	-5.51	-4.33	-5.05	-5.51	0.4275	0.7825	0.5925	0.428209	0.33686	0.289725	1	0.99511	0.825111	
Alkam	Q9J306	1.15	0.56	0.31	0.95	0.91	1.5	0.61	0.99	1.47	1.02	0.53	1.66	1.11	1.52	0.62	0.475	0.26	0.4275	0.125	0.349439	0.200022	0.491847	1	0.99511	0.897531	
Alk15a1	Q9Z089	1.59	0.41	1.41	0.88	0.21	0.57	-0.9	-0.038084	0.52	0.42	-0.18	0.16	0.24	0.78	1.3	-0.63	-1.0175	-0.7425	-0.075	0.803785	0.051715	0.008016	1	0.99511	0.983757	
Alk15a1	Q9Z110	0.49	0.55	0.71	0.58	0.9	0.26	0.58	0.58	0.48	0.78	0.6	0.45	0.22	0.04	0.14	0.36	-0.24	0.005	-0.385	0.214844	0.976372	0.664121	1	0.99788	0.861271	
Alk15a1	Q9Z110	0.49	0.55	0.71	0.58	0.9	0.26	0.58	0.58	0.48	0.78	0.6	0.45	0.22	0.04	0.14	0.36	-0.24	0.005	-0.385	0.214844	0.976372	0.664121	1	0.99788	0.861271	
Alk15a1	P24549	1.46	0.51	0.55	0.85	1.04	1.04	0.57	1.28	1.17	-0.22	0.46	1.41	0.23	1.18	0.2	0.12	0.14	-0.1375	-0.41	0.607637	0.737121	0.240874	1	0.99511	0.795697	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53	-2.03	-1.59	-2.26	-1.48	0.21	0.4535	0.37	0.621751	0.941629	0.331815	1	0.99511	0.840788	
Alk15a1	Q9Z148	-2.5	-2.97	-1.74	-1.63	-2.79	-2.09	-1.24	-1.88	-2.5	-0.47	-1.53	-2.53														

Ap1s1	P61967	0.62	-0.31	-0.76	-0.97	-0.12	0.53	-0.62	-0.97	0.33	-0.6	-0.68	0.28	-0.51	0.55	-1.4	-1.02	0.06	0.1875	-0.24	0.893238	0.659467	0.641355	1	0.995511	0.943421
Ap1s2	C90580	-0.31	-0.48	0.12	0.43	0.2	-0.54	0.53	0.24	-0.25	0.83	0.35	-0.65	-0.67	0.66	-0.18	0.58	0.1675	0.13	0.1575	0.585136	0.724848	0.672899	1	0.995511	0.952944
Ap2s1	P17426-2	1.1	-29	0.65	0.83	0.88	0.57	1.33	1.47	0.10	0.68	0.91	0.65	-0.28	0.45	0.71	0.93	0.22	-0.365	0.348427	0.384231	0.961634	1	0.995511	0.925612	
Ap2s2	P17427	1.66	0.15	0.44	0.32	0.42	1.93	0.66	0.44	-0.16	-0.19	0.34	1.42	-0.76	-0.11	-0.12	0.01	0.22	-0.29	0.8875	0.636418	0.547075	0.040315	1	0.995511	0.658454
Ap2b1	A030863	1.08	0.37	0.37	0.67	0.51	1.42	1.25	0.69	0.51	0.06	0.48	-0.09	0.45	0.18	0.33	3.9861-01	-0.1075	-0.3525	0.180817	0.670901	0.17315	1	0.995511	0.764376	
Ap2d1	A043389P1	-2.52	-0.58	-3.54	-4.76	0.86	-1.12	-2.64	-1.43	-1.31	-4	-3.32	-2.08	-1.15	-0.89	-4.33	-2.77	1.0925	0.1725	0.565	0.389157	0.857889	0.59833	1	0.995511	0.930309
Ap2s1	P64091	-0.14	0.01	0.05	-0.07	0.21	0.38	0.15	0.14	-0.12	0.65	0.11	0.23	-0.14	0.18	0.36	-0.24	-0.26	-0.125	0.090671	0.575483	0.995524	1	0.995511	0.955729	
Ap2s1	P62743	1.02	1.02	1.57	1.16	1.47	1.05	1.52	1.71	-1.48	-2.06	1.67	0.79	-1.96	-1.72	1.05	1.59	0.345	-1.4625	-1.4525	0.179202	0.10054	0.109816	1	0.995511	0.709835
Ap2s1	G92171	-0.62	-0.53	0.18	0.14	-0.91	-0.63	0.07	-0.05	-0.31	0.13	0.2	-0.56	-0.43	-0.14	-0.44	-0.45	-0.1725	0.0725	-0.1575	0.582579	0.802078	0.543596	1	0.995511	0.912122
Ap3b2	A034M5	0.79	0.68	0.96	1.02	0.7	0.85	0.64	0.88	0.9	1.28	0.96	0.84	0.4	1.12	0.66	0.63	-0.095	0.1325	-0.16	0.556222	0.448261	0.474743	1	0.995511	0.891741
Ap3b1	A034771	0.04	0.05	0.06	0.26	0.54	0.27	0.42	0.56	0.42	0.67	0.63	0.08	-0.47	0.45	0.66	0.52	0.127	-0.4275	0.565366	0.198782	0.160509	1	0.995511	0.946107	
Ap3s1	C91K5C	0.45	0.29	0.01	0.03	0.57	0.09	0.15	0.04	0.13	-0.11	0.14	-0.72	-0.19	-0.38	-0.26	0.0125	0.0335	-0.4745	0.551381	0.858369	0.886863	1	0.995511	0.691619	
Ap3m2	Q8R289	-0.3	-0.06	-0.06	-0.18	0.32	-0.02	-0.05	-0.04	-0.34	-0.36	0	-0.29	-0.51	0.21	-0.27	-0.14	0.2025	-0.0975	-0.0275	0.238416	0.579183	0.888261	1	0.995511	0.983509
Ap3s1	Q90CK2	0.3	0.07	0.27	0.37	0.23	0.14	0.42	0.51	-0.52	0.27	0.55	0.44	-0.6	-0.66	-0.05	0.14	0.0725	-0.0675	-0.545	0.660945	0.800634	0.950091	1	0.995511	0.658454
Ap3b2	C8B52	-0.16	-0.09	-0.29	-0.05	0.15	-0.09	-0.41	0.09	-0.24	-0.84	-0.14	0.05	0.7	-0.3	-0.42	-0.21	0.0825	-0.17	-0.26	0.650173	0.462013	0.200814	1	0.995511	0.780477
Ap3b1	A04Q22P1	-0.88	-0.66	-0.08	0.13	0	-1.66	-0.5	-0.51	-0.24	-0.77	-0.68	0.14	-1.54	-0.28	-0.28	-0.19	-0.32	-0.185	-0.06	0.430369	0.551898	0.889846	1	0.995511	0.981948
Ap4s1	Q80V94	-0.25	0.11	-0.5	-0.4	0.45	-0.24	-0.33	-0.44	-0.11	-0.48	-0.53	-0.28	-0.17	0.37	-0.95	-0.62	0.12	-0.09	-0.0825	0.636688	0.667764	0.79787	1	0.995511	0.969727
Ap4s1	Q91K7C	-0.45	-0.33	0.02	0.85	-0.22	-0.13	0.46	0.26	0.98	0.38	0.19	-0.27	0.85	-0.34	0.19	0.03	0.07	0.2975	0.16	0.829985	0.439272	0.671461	1	0.995511	0.952631
Ap4s1	Q9VW11	1.63	1.15	1.02	1.36	0.95	1.04	0.21	0.74	1.4	0.75	1.33	1.71	1.78	0.47	1.02	0.54	-0.555	0.0075	-0.2375	0.045711	0.976956	0.453248	1	0.997808	0.885993
Ap5s1	A24NC4	-2.04	-2.91	-2.34	-2.8	-2.1	-2.1	-1.23	-2.48	-1.99	-2.49	-3.72	-6.21	-4.1	-2.69	-3.01	-1.64	0.545	-0.3375	0.121285	0.054617	0.511607	1	0.995511	0.902893	
Ap5s1	Q3U829	-1.37	-0.57	-0.48	-0.61	-1.63	-0.4	-0.12	-0.54	0.5	-0.23	-0.43	-0.82	-1.2	-1.26	-0.8	-0.67	0.085	0.5125	-0.225	0.819023	0.158128	0.422248	1	0.995511	0.857872
Ap5s1	G3XA09	-0.69	-0.43	-1.09	-0.7	-0.77	-0.4	-2.28	-0.79	-1.1	-0.78	-1.11	-0.47	-0.36	0.79	1.19	-0.32	-0.3325	0.4875	1.0525	0.428291	0.330587	0.255983	1	0.995511	0.633075
Ap6s1	B2RUJ5	0.13	0.59	0.43	0.38	0.59	0.12	0.14	0.27	0.9	0.98	0.6	0.71	0.67	1.21	0.29	0.27	-0.1025	0.415	0.2275	0.584339	0.051427	0.402763	1	0.995511	0.870698
Ap6s1	P98084	-0.21	-0.02	0.22	0.44	-0.77	0.11	0.54	0.25	0.56	0.44	0.35	0.6	1.02	0.12	0.35	0.38	-0.075	0.385	0.36	0.809351	0.083667	0.186095	1	0.995511	0.78004
Ap6s1	C8B888	0.32	0.54	-0.04	0.42	0.75	-0.1	-0.08	-0.71	0.39	1.34	0.21	0.2	0.14	1.02	0.03	-0.05	-0.345	0.225	-0.025	0.294838	0.46643	0.932013	1	0.995511	0.989713
Ap6b1	Q90X11	0.1	0.62	0.25	0.55	0.7	0.48	0.76	0.58	0.57	0.07	0.61	0.42	0.38	1.45	0.37	0.34	0.25	0.0025	0.255	0.193028	0.991346	0.417853	1	0.999285	0.875558
Ap6b1b	C8R5A3	-0.74	-0.49	-0.53	-0.66	-0.34	-0.98	-0.57	-0.41	0.05	1.47	-0.28	-1.02	1.63	-0.7	-0.97	-0.63	0.28	0.91	0.6875	0.308743	0.109853	0.261519	1	0.995511	0.81412
Ap6b2	C8R5A3	0.58	0.69	1.28	1.26	0.41	0.89	0.79	1.39	0.69	1.17	1.18	0.64	0.79	0.63	1.78	1.99	0.0425	-0.0275	0.35	0.802046	0.914201	0.387563	1	0.995511	0.859245
Ap6c	B2RUJ9	0.39	0.62	0.69	0.53	0.27	0.47	0.7	0.9	0.9	0.84	0.86	0.25	0.9	0.88	0.44	0.1225	0.08	0.11	0.491040	0.111993	0.765366	1	0.995511	0.953066	
Ap6c	G5E832	0.21	0.32	0.88	0.74	0.34	0.29	0.41	0.55	1.47	1.09	0.71	0.46	1.69	1.05	1.13	0.93	-0.1425	0.365	0.490646	0.192663	0.310162	1	0.995511	0.641481	
Ap6e	A040K81	-0.41	-0.91	-0.32	0.26	-0.76	-0.18	-0.24	-0.07	0.03	0.03	-0.11	-0.37	0.04	0.09	-0.24	-0.22	0.0325	0.24	0.2625	0.090485	0.389283	0.355305	1	0.995511	0.855029
Ap6s1	P2R352	-5.42	-5.88	-5.06	-4.64	-5.28	-5.66	-4.49	-5.03	-5.3	-3.06	-4.59	-5.08	-4.56	-4.06	-5.2	5.35	0.7425	0.4575	0.698915	0.183503	0.575715	1	0.995511	0.809552	
Ap6s1	F8VW17	0.45	0.05	0.19	1.33	1.62	0.55	0.44	1.22	0.95	1.9	1.87	0.83	0.96	1.34	0.45	0.24	-0.32	0.15	0.159173	0.766833	0.715125	0.24	1	0.995511	0.959729
Ap5	C3S841	-1.44	-2.65	-2.43	-2.33	-2.29	-2.19	-2.7	-2.41	-2.12	-2.33	-2.15	-2.36	-1.9	-2.64	-2.53	-0.185	0.2625	-0.145	0.526545	0.471373	0.651044	1	0.995511	0.947407	
Ap6p	Q9VW05	-1.43	-1.59	-1.31	-1.42	-1.53	-1.38	-0.84	-1.34	-1.98	-1.27	-1.2	-1.06	-1.72	-2.01	-1.75	-1.14	0.165	0.06	-0.2175	0.409363	0.803318	0.365626	1	0.995511	0.858622
Ap6f	Q90842-2	-2.89	-3.61	-1.94	-2.23	-5.36	-2.95	-3.76	-2.46	-2.74	-2.39	-4.05	-1.61	-1.46	-5.08	-1.65	2.33	-0.965	1.165	0.0375	0.17366	0.77398	0.963705	1	0.995511	0.93927
Ap6s1	Q30157	-0.39	-0.64	-0.38	-0.37	-0.57	-0.25	-0.75	-0.49	-0.46	0.56	-0.26	-0.35	-0.1	0.08	0.358	0.24	-0.32	0.185	0.06	0.430369	0.551898	0.889846	1	0.995511	0.784843
Ap6p	Q60709	-0.11	0.11	-0.37	0.23	0.23	-0.01	-0.09	-0.43	0.7	-0.59	-0.12	0.15	-0.68	-0.38	-0.4	-0.47	0.105	0.1305	-0.3025	0.614321	0.597055	0.155522	1	0.995511	0.750763
Ap6s2	Q60335	0.86	1.78	0.36	0.35	0.24	0.73	0.05	0.73	0	0.63	0.81	0.51	0.52	0.95	0.66	1.1	0.425	-0.07	0.25	0.52727	0.892191	0.624899	1	0.995511	0.939167
Ap6p	Q907N9	0.23	0.38	0.42	0.4	0.78	0.32	0.78	0.43	0.37	0.08	0.2	0.18	0.44	0.56	0.66	0.71	0.22	-0.15	0.235	0.236919	0.369651	0.201385	1	0.995511	0.781032
Ap6s1	Q60623	-4.79	-5.82	-3.91	-4.62	-4.94	-5.02	-4.22	-4.35	-5.46	-2	-3.86	-4.56	-4.32	-3.14	-4.42	-4.67	0.1525	0.835	0.6475	0.714889	0.296884	0.268497	1	0.995511	0.785138
Ap6s1	P0R811	-0.12	-0.11	-1.2	-1.57	-3.03	-0.68	-0.74	-0.74	-0.87	-0.63	0.98	-0.49	-0.67	-0.43	-0.29	0.127	0.1	0.245178	0.149264	0.49064	0.722266	0.127	1	0.995511	0.822084
Ap6s2	P6R828	-5.57	-6.36	-4.55	-4.7	-5.57	-6.04	-4.77	-5.33	-5.86	-2.36	-4.51	-5.52	-5.59	-3.96	-2.29	-5.48	-0.1325	0.7325	0.465	0.774135	0.379585	0.371376	1	0.995511	0.859244
Ap6p	E901Y3	-2.78	-4.55	-1.51	-2.03	-4.94	-4.35	-1.02	-2.26	-3.16	-1.49	-1.44	-3.09	-2.97	-2.52	-1.74	-2.23	-0.425	0.1225	0.3525	0.675832	0.572999	0.590122	1	0.995511	0.925142
Ap6s1	P34928	-4.22	-4.01	-2.41	-2.69	-4.65	-4.37	-4.55	-1.11	-5.49	-2.53	-2.57	-2.34	-3.41	-4.41	-3.12	-4.5	-0.8375	-0.125	-0.44	0.143243	0.868508	0.939886	1	0.995511	0.868093
Ap6s1	Q92P55	-1.03	-1.26	-1.39	-1.07	-1.06	-1.07	-1.09	-0.94	-1.07	-1.07	-1.07	-1.07	-1.07	-1.07	-1.07	-1.07	-0.1775	0.715177	0.42	0.539082	0.148436	0.148436	1	0.995511	0.950744
Ap6p	P51910	0.3	-0.67	-0.79	-1.17	0.06	-1.35	0	-0.94	-0.55	-0.3	-0.78	-0.63	-0.46	-0.44	-0.91	-1.03	0.175								

Armch	G3X920	-0.43	-0.34	-0.58	-0.82	0.18	-0.36	-0.33	-0.62	-0.59	-0.18	-0.59	-0.24	-0.58	0.06	-0.9	-0.57	0.26	0.1425	0.045	0.258082	0.484954	0.861027	1	0.956511	0.977204	
Armcs	Q90295-2	-0.41	-0.2	-0.27	-0.09	-0.17	-0.66	0.13	-0.23	-0.64	-0.17	0.14	-0.42	-0.47	-0.42	0.05	-0.09	0.095	0.155	0.01	0.67504	0.509084	0.961108	1	0.956511	0.961108	
Armcc2	Q64058	-0.39	-0.17	-0.17	0.25	-0.35	-0.49	-0.42	0.18	1.45	0.19	-0.12	0.04	0.38	0.17	-0.11	-0.18	-0.19	0.6675	0.6	0.31847	0.114015	0.36807	1	0.956511	0.847198	
Armcc3	Q8H856	-0.6	-0.65	-0.44	-0.84	-0.12	-0.62	-0.25	-0.51	-1.26	-0.97	-0.43	-0.71	-0.9	-0.81	-0.56	-0.75	0.2575	-0.21	-0.1225	-0.185855	0.307089	0.521018	1	0.956511	0.907667	
Armcc4	E9PW443	1.29	1.36	-0.69	-0.2	1.26	0.95	-0.29	0.01	1.12	1.68	-0.38	0.52	0.91	1.21	-0.5	0.01	0.0425	0.295	-0.0325	0.041844	0.683416	0.956714	1	0.956511	0.992636	
Armch3	Q8P019	0.18	0.12	0.12	-0.01	0.21	0.24	0.67	0.16	-0.7	0.43	0.59	0.11	-0.42	-0.16	0.35	0.67	0.1275	-0.21	0.0075	0.232445	0.485371	0.978025	1	0.956511	0.993727	
Arm1	A6H630	0.58	0.51	0.35	-0.08	0.84	0.9	0.62	0.23	0.25	1.38	0.11	0.82	-0.33	0.04	-0.01	-0.19	0.2075	-0.365	-0.4675	0.452751	0.89047	1.010136	1	0.956511	0.710755	
Arm2	Q61324-2	-1.09	-0.93	-1.22	-1.29	-0.75	-1.25	-1.3	-1.41	-0.98	-1.17	-0.93	-0.94	-1.16	-0.62	-1.35	-1.52	-0.045	0.1275	0.03	0.821758	0.466273	0.902881	1	0.956511	0.985011	
Arm1	A0A180G5	-4.58	-4.58	-2.26	-2.24	-5.03	-5.07	-3.18	-3.95	-4.75	-0.99	-2.25	-5.06	-1.17	-2.76	-1.67	-1.73	-0.8925	0.1525	1.5825	0.245018	0.886596	0.042832	1	0.956511	0.568454	
Arm1a1	Q9R006	-0.51	-0.62	-0.51	0.93	0.05	-0.26	0.5	0.82	-0.16	-0.66	0.67	-0.98	-1.74	-0.9	0.32	0.1	0.2	-0.5725	-0.6325	0.078308	0.279977	0.780662	1	0.956511	0.822084	
Arm1b	Q91225	-0.07	-0.13	-0.09	0.93	-0.12	-0.19	0.05	-0.17	-0.33	-0.03	-0.06	0.17	-0.1	-0.12	-0.01	-0.18	-0.0675	-0.255	-0.559583	0.806171	0.286974	0.956511	0.979272	1	0.956511	0.979272
Arm2	Q9C446	0.6	0.74	1.22	1.88	1.05	1.61	1.48	2.2	1	0.81	1.47	1.48	-0.01	-0.19	0.71	1.06	0.1215	-0.35	-0.336993	0.555993	0.027534	0.956511	0.635993	1	0.956511	0.956511
Arm3	Q9M746	0.05	-0.05	0.57	0.49	-0.47	0.34	0.63	0.62	0.06	0.79	0	-0.67	0.7	0.12	-0.3	-0.115	-0.115	-0.4	0.688781	0.65849	0.244477	1	0.956511	0.799771		
Arm4	P59999	0.53	0.29	-0.2	-0.77	1.37	0.28	-0.24	-0.14	-1.09	-1.64	-0.3	0.01	-2.62	-0.79	-1.47	-0.69	0.355	-0.7175	-1.355	0.425132	0.134162	0.021612	1	0.956511	0.621926	
Arm5	Q9CPW4	-0.24	-0.32	0.11	0.16	0.68	-0.48	-0.05	0.29	0	-0.1	0.11	-0.62	-0.45	0.15	-0.12	-0.26	0.1825	-0.08	-0.0975	0.517466	0.73192	0.956511	0.949825	1	0.956511	0.949825
Arm5c1	Q90888	0.58	0.16	0.09	-0.66	0.84	0.7	-0.33	-0.5	-0.34	-0.43	-0.16	-0.98	0.31	-0.85	-0.56	0.0275	-0.365	-0.5275	0.939721	0.21843	0.187606	1	0.956511	0.778843		
Arm6	Q9D043	-0.12	-0.8	-0.27	-0.29	-0.22	-0.84	-0.07	-0.47	-0.65	-0.43	-0.37	-0.52	-0.75	-0.28	-0.53	0.29	0.005	-0.1225	-0.0925	0.984283	0.555852	0.689037	1	0.956511	0.955729	
Arm7	P56212	-0.58	-0.8	-1.51	-1.69	-1.16	-0.96	-1.65	-1.56	-0.45	-0.63	-1.18	-0.48	-0.6	-0.23	-1.75	-1.88	-0.875	0.04	0.549559	0.174028	0.948308	1	0.956511	0.992476		
Arm8	Q90C84	0.46	0.8	-0.08	0.17	-0.22	-0.07	0.02	-1.16	1.37	-0.07	-0.05	1.17	1.67	1.33	0.42	0.04	-0.445	0.2675	0.5275	0.06977	0.519044	0.128711	1	0.956511	0.787447	
Arm9	Q90C84-2	-0.64	-2.36	-1.6	-2.57	-1.39	-0.95	-4.34	-1.92	1.29	0.71	-1.99	-0.93	1.83	-0.55	-2.68	-1.96	-0.975	1.5625	0.6775	0.259777	0.074003	0.495722	1	0.956511	0.897768	
Arm10	Q8W868	-0.59	-0.18	-0.11	-0.02	-0.39	-0.27	-0.06	-0.06	-0.63	-0.26	-0.17	-0.6	-1.13	-0.13	-0.49	-0.43	0.03	-0.19	-0.32	0.874024	0.38392	0.254865	1	0.956511	0.809524	
Arm11	Q91Y14	-0.41	-1.02	-0.54	-0.51	-1.08	-0.73	0.05	-0.32	-1.18	0.54	-0.07	-1.18	-1.25	-0.8	-0.92	0.35	0.26	0.1475	-0.21	0.455178	0.729111	0.427659	1	0.956511	0.897165	
Arm12	A2A59	0.03	-0.64	0.94	0.78	-0.53	-0.24	0.59	0.89	-0.25	0.01	1.05	-0.06	0.06	0.55	0.2	0.57	0.1	-0.09	0.0675	0.828104	0.83826	0.857813	1	0.956511	0.976225	
Arm13	P50428	-0.45	-0.39	-0.15	-0.01	-0.69	-0.16	-0.21	-0.68	-0.94	-0.35	-0.22	-0.61	-0.43	-1.22	-0.88	-0.48	-0.185	-0.5025	-0.332654	0.728198	0.060215	1	0.956511	0.664936		
Arm14	A0A0K413	-0.52	-0.55	-0.16	0.31	-0.59	-0.46	0.84	0.34	-0.58	-0.22	0.58	-0.55	0.5	-0.3	-0.28	-0.04	0.2625	0.0375	-0.05	0.48686	0.51038	0.843722	1	0.956511	0.976225	
Arm15	Q37Y4	0.59	0.78	-0.4	-0.56	0.52	0.16	0.74	0.09	0.17	-1.65	-0.72	-0.35	0.74	1.26	-1.07	-0.4	0.775	-0.38	0.03	0.220394	0.504811	0.958612	1	0.956511	0.992636	
Arm16	Q8B8M9	-5.14	-2.98	-3.13	-3.93	-2.63	-4.69	-3.96	-4.05	-1.72	0.03	-3.7	-4.51	1.16	0.04	-3.14	-3.89	-0.0375	1.32	2.3375	0.950043	0.21706	0.07284	1	0.956511	0.668066	
Arm17	P58203	0.75	0.76	0.91	0.88	0.93	0.79	0.74	0.99	0.25	0.91	0.99	0.85	0.75	0.87	0.91	-0.04	-0.03	0.008	-0.2	0.786173	0.891546	0.588485	1	0.956511	0.976225	
Arm18	Q9H486	-0.26	0.31	0.72	0.35	1.77	0.64	1.41	0.64	-1.69	1.38	0.57	0.51	1.4	-1.46	1.49	1.74	0.7875	-0.3175	0.991139	0.167693	0.704035	1	0.956511	0.958084		
Arm19	Q91WU5	-0.3	-0.57	0.12	-0.77	-0.24	-0.37	-0.13	0.51	-0.5	0.95	0.2	-0.2	-0.51	-0.21	0.62	-0.56	0.0725	0.0975	0.1	0.829662	0.891594	0.978009	1	0.956511	0.969727	
Arm20	Q9WV54	-0.02	-0.39	-1	-0.33	-0.26	-0.11	-1.17	-1.15	-0.35	-0.56	-0.38	-0.33	-0.93	-0.54	-1.57	-0.82	-0.2375	0.3	-0.308	0.1	0.488489	0.902649	0.113664	1	0.956511	0.716416
Arm21	R27N55	0.4	0.69	0.4	0.37	0.43	0.07	1.54	0.87	0.28	0.29	0.6	-0.1	0.23	0.27	0.92	1.19	0.625	-0.1975	0.1875	0.41139	0.356626	0.499051	1	0.956511	0.899595	
Arm22	H31Y12	-0.22	-0.18	-0.39	-0.4	-0.37	-0.69	-0.4	-0.34	-0.23	-0.31	-1.09	-0.51	-0.1	-0.1	-0.1	-1.19	-0.775	0.288133	0.1	0.486207	0.87876	0.956511	0.976225	1	0.956511	0.976225
Arm23	EQ9M1	0.39	0.04	0.49	0.68	0.18	0.45	0.05	0.61	0.14	0.33	0.51	0.07	-0.07	0.32	-0.2	-0.05	-0.7775	-0.1375	-0.4	0.715443	0.517698	0.100723	1	0.956511	0.698156	
Arm24	P3YX85	1.01	0.52	-0.02	-0.32	-1.81	0.66	-4.58	-3.46	3.13	-3.17	-1.08	-0.22	3.96	-3.2	2.53	-2.28	-1.845	0.2275	1.425	0.192962	0.876678	0.360443	1	0.956511	0.85741	
Arm25	E9P9K5	-0.06	0.34	0.81	0.75	0.39	-0.04	0	0.31	0.24	0.89	0.72	0.15	0.06	0.62	0.26	0.27	-0.295	0.04	-0.1575	0.246359	0.887339	0.851127	1	0.956511	0.914255	
Arm26	Q8RVM0	-0.26	0.35	1.98	-0.13	-3.79	-0.05	-0.04	-0.32	-0.31	-1.88	-1.06	-1.63	-0.56	-1.68	-1.96	-0.575	0.545	0.04	0.312171	0.261262	0.471422	1	0.956511	0.992376		
Arm27	A0A0K45V	0.33	-0.14	-1.2	-1.94	-1.29	1.27	-0.88	-2	0.14	-2.76	-1.2	0.84	2.45	-1.83	-1.78	-1.25	-0.0125	-0.0075	0.135	0.877296	0.992974	0.895187	1	0.956511	0.992376	
Arm28	Q91ZU1	-0.59	-0.37	0.1	-2.04	-0.02	-0.74	-1.84	-1.17	0	2.42	-0.87	-0.63	-0.65	0.39	-1.4	0.17	-0.2075	0.955	0.3525	0.708638	0.2514	0.539075	1	0.956511	0.912212	
Arm29	Q90821	-0.07	-0.03	0.1	-0.4	-0.19	-0.81	-0.13	-0.14	-0.19	0.12	-0.22	-0.11	-0.07	-0.09	-0.08	0.38	-0.2175	3.88	-1	0.135	0.336238	1	0.956511	0.908944		
Arm30	Q91WV3-2	-1.7	-0.5	-0.99	-1.12	-1.85	-0.86	-0.53	-0.85	-0.96	0.45	0.1	-1.35	-0.94	-0.92	-0.82	-0.04	0.6375	0.3975	0.893271	0.191522	0.248712	1	0.956511	0.904085		
Arm31	E9F728	-0.4	-0.61	-0.98	-0.21	-1.28	-0.76	-0.65	-0.97	-1.06	-1.24	-0.16	-0.24	-0.16	-0.26	-0.16	-0.16	-0.16	0.225	0.129	0.68878	0.324738	0.251266	1	0.956511	0.908495	
Arm32	Q9CQ66	-0.18	-0.1	-0.88	-0.22	-0.39	-0.15	-1.05	-0.09	-0.67	0.32	-0.24	0.05	-0.31	0.71	-0.65	-1.01	0.12	0.21	0.03	0.723894	0.891546	0.939785	1	0.956511	0.908495	
Arm33	Q91X20	-2.4	-2.12	-2.47	-2.97	-1.61	-2.92	-3.01	-3.17	-1.92	-0.83	-2.81	-2.77	-1.35	-0.99	-2.55	-2.9	-0.1875	0.045	0.624433	0.392919	0.261429	1	0.956511	0.81412		
Arm34	Q8XN08	0.51	0.31	0.31	0.63	0.44	0.66	0.62	0.6	1.34	0.75	0.53	0.95	0.67	0.6	0.1	0.365	0.245	0.337354	0.148295	0.122818	1	0.956511	0.787447			
Arm35	Q925H0-2	-0.06	0.1	0.14	-0.14	-0.06	0.13	-0.11	-0.12	-0.15	-0.12	0.06	-0.19	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-1.075	0.124227	0.546089	0.170237	1	0.956511	0.718608	
Arm36	Q925H0	-0.62	-0.37	-0.87	-0.57	-0.61	-0.82	-0.25	-1.29	-1.09	-0.01	-1.01	-0.65	-0.6	0.45	-0.21	-0.68	-0.135	0.1425	0.3475	0.59						

Athen10	P28658	-0.69	-0.82	-0.96	-0.91	-0.33	-0.82	-0.68	-0.8	-0.89	-0.48	-0.97	-0.53	-1.01	-0.7	-1.08	-0.71	0.1875	0.1275	-0.03	0.302983	0.513385	0.875416	1	0.99551	0.979626
Athen11	POC776	-0.1	-0.69	-0.37	-0.13	-0.55	-1.15	-0.76	-0.23	-0.03	-0.74	-0.65	-0.49	1	1.51	-1.09	-0.54	-0.35	0.215	0.7925	0.183962	0.57673	0.126276	1	0.99511	0.721505
Athen12	EXOM77	-2.16	-1.73	-1.17	-1.75	-2.59	-2.96	-1.88	-2.09	-1.77	-0.49	-1.57	-2.37	-1.56	-1.39	-1.72	-0.175	0.61	0.6025	0.531086	0.184135	0.043138	1	0.99511	0.658454	
Athen13	B6U2C2	-0.6	-0.92	-4.02	-4.31	-0.33	-1.12	-4.45	-4.14	-0.48	-1.79	-3.02	-0.69	-1.02	-0.76	-3.04	-4.77	-0.0475	0.9675	0.39	0.790482	0.360035	0.71769	1	0.99511	0.953898
Athen14	Q77HQH-2	-1.9	-2.02	-2.01	-2.3	-2.09	-2.06	-2.07	-2.39	-1.61	-1.23	-2	-1.77	-1.05	-1.56	-2.06	-2.42	-0.095	0.405	0.285	0.578947	0.093498	0.380844	1	0.99511	0.808494
Athen15	Q9YCV2	-0.33	-0.77	-0.11	0.33	-0.63	-0.41	-0.15	0.15	1.33	0.18	-0.17	-0.4	1.95	-1.21	0.11	-0.51	-0.4	0.455	0.305	0.888554	0.299481	0.641679	1	0.99511	0.943421
Athen17b3	Q3JDU1	-0.24	-0.21	-0.87	0.59	0.16	-0.42	-0.49	-1.32	1.96	1.02	-0.1	0.02	2.74	-0.17	0.5	0.48	-0.085	0.74	0.7375	0.139777	0.144882	0.966629	1	0.99511	0.943474
Auh	A0AKOR402	0.93	0.48	0.55	0.52	0.21	0.85	0.33	0.44	-0.27	0.27	0.3	0.32	0.05	0.35	-0.12	0.15	-0.1625	-0.33	-0.5125	0.435434	0.088013	0.032071	1	0.99511	0.641974
Aup1	P70295	0.7	0.77	-0.22	0.35	0.69	0.17	0.13	0.45	1.05	0.8	0.24	0.95	0.95	1.27	0.34	0.18	-0.035	0.36	0.285	0.895546	0.244905	0.413626	1	0.99511	0.874945
Aurkap1	Q9C0C7	-0.44	-0.46	-0.96	-0.26	-0.96	-0.15	0.76	-0.41	0.12	1.19	0.77	-1.53	-0.03	1.82	0.03	-1.03	-0.34	0.6675	0.7425	0.371068	0.23865	0.208998	1	0.99511	0.786218
Aurkap1	A2AGL5	-0.18	-0.58	-0.19	-0.59	-0.18	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.19	-0.58	-0.2125	0.360764	0.375743	0.130228	1	0.99511	0.973939
AurB	Q8U5U6	1.09	0.87	0.42	0.17	0.6	1.16	0.69	0.31	0.09	-0.55	0.62	1	1.13	0.12	1.13	0.46	0.0525	-0.3475	0.4425	0.848488	0.374426	0.123613	1	0.99511	0.721448
AW209491	Q91W04	-0.54	-1.29	-1.1	-1.59	-1.4	-1.02	-2.28	-1.44	-0.75	-0.35	-0.99	-1	0.8	-1.45	-0.21	-1.48	-0.405	-0.26	0.545	0.246835	0.791735	0.332484	1	0.99511	0.845601
AW551884	Q8BGFO	0.28	0.74	-0.43	0.2	0.48	0.17	0.85	-1.18	0.25	0.71	0.15	0.76	0.31	0.26	1.19	0.65	0.2225	-0.27	0.405	0.450217	0.371095	0.235449	1	0.99511	0.791493
Alm	Q8PE80	1.84	0.42	0.68	0.33	1.28	0.7	0.41	0.85	-0.17	-0.25	0.56	0.9	0.23	0.23	-0.33	0.51	0.0425	-0.5075	-0.6125	0.900393	0.21956	0.106206	1	0.99511	0.703417
Au12	Q9YVY6	-0.22	-0.44	-0.57	0.26	-0.56	-0.42	-0.49	-1.32	1.96	1.02	-0.1	0.02	2.74	-0.17	0.5	0.48	-0.085	0.74	0.7375	0.139777	0.144882	0.966629	1	0.99511	0.943474
B2m	P01887	2.36	0.84	0.88	0.06	0.56	1.51	1.36	0.77	1.04	0.52	0.84	1.5	1.49	0.45	1.36	2.01	0.015	-0.06	0.2925	0.975616	0.901883	0.588626	1	0.99609	0.929131
B3galn1	Q9Z0V1	-1.83	-2.25	-1.34	-0.08	-1.73	-1.93	-0.79	-1.11	-1.54	-0.2	-0.55	-1.39	-1.54	-1.54	-0.81	0.12	-0.015	0.445	0.4325	0.975951	0.399585	0.451514	1	0.99511	0.885538
B3galn5	Q9A567	-0.55	-0.31	-1.66	-1.18	-2.52	-0.08	-0.72	-1.21	1.16	0.6	-1.51	-1.16	1.93	-0.95	0.86	-0.58	-0.2075	0.6975	1.14	0.077289	0.305236	0.133055	1	0.99511	0.728417
B3galn5	Q91252	-1.67	-2.04	-2.36	-1.45	-0.97	-1.14	-1.71	-1.91	-1.17	-2.23	-2.33	-1.94	-2.16	-1.33	-1.8	-1.49	0.4475	-0.0375	0.185	0.160709	0.909129	0.526961	1	0.99744	0.902945
B3gal3	PS8158	-1.3	-3.12	-1.33	-0.1	-2.31	-0.49	-1.34	-0.94	-1.37	-1.33	-1.13	-2.62	-0.3	-2.81	-0.36	-0.33	0.1925	-0.15	0.5125	0.772722	0.816622	0.522652	1	0.99511	0.907667
B3gal3	Q8BH76	-0.41	0.15	-0.71	-0.72	-0.56	-0.27	0.2	-0.2	-0.24	-1.19	-0.56	-0.21	-0.78	0.63	0.32	0.18	0.495	0.2175	0.51	0.107885	0.430531	0.181838	1	0.99511	0.776002
B4galn1	Q9P200	-0.86	-0.76	-0.7	-0.45	-0.49	-0.73	-0.11	-0.16	-0.71	-0.25	-0.59	-1.13	-0.65	-0.23	0.26	0.21	0.375	0.1475	0.59	0.123318	0.632159	0.406408	1	0.99511	0.658454
B4galn4	Q75625	-3.81	-2.29	-3.04	-2.68	-4.61	-3.82	-0.59	-3.44	-6.84	-1.79	-4.3	-2.08	1.55	-0.96	-2.41	-0.97	-1.76	-0.7975	0.2575	0.046949	0.471569	0.899122	1	0.99511	0.983509
B4gal3	Q91YV2	-0.26	0.04	-0.76	0.74	-0.75	0.07	-0.39	-0.65	-0.21	-1.62	-1.45	-0.12	0.15	-0.24	-0.8	0.28	7.85E-17	-0.42	0.1375	-0.06	0.331728	0.693587	1	0.99511	0.942804
B4gal7	D32065	-0.75	-1.09	-0.1	-0.37	-2.54	-0.24	-1.61	-0.32	1.31	0.09	0.81	-0.66	2.36	-1.58	-0.86	-1.61	-0.32	0.965	0.155	0.635074	0.583538	0.858533	1	0.99511	0.976225
B4gal1	Q8BW98	-2.3	-2.34	-1.39	-1.57	-1.13	-1.63	-1.33	-1.36	-2.01	-0.58	-1.28	-2.39	-1.6	-1.57	-1.08	-1.27	0.5375	0.335	0.52	0.074702	0.457247	0.10173	1	0.99511	0.686997
B5000390	Q77VNS	-0.05	-0.86	-0.96	-0.56	-0.64	-0.14	-0.91	-0.87	0.35	-1.05	-0.35	0	-0.13	0.29	-0.36	-0.82	-0.1425	-0.0885	-0.0775	0.778973	0.804249	0.588609	1	0.99511	0.975225
Bn1	Q2NCW6	0.4	1.22	1.22	0.27	0.27	1.28	1.48	0.64	1.99	1.09	0.86	2	0.58	1.05	1.05	0.15	0.025	0.015	0.355	0.900915	0.257778	0.63867	1	0.99511	0.947633
Bn2	Q8WYH1	1	1.16	1.65	1.24	1.65	0.78	1.02	1.53	0.8	0.65	1.39	0.98	-0.78	-1.19	1.63	1.86	-0.0175	-0.7075	-0.8825	0.945896	0.154276	0.246269	1	0.99511	0.802442
Babam1	Q3JHU3	-0.19	0.11	-0.33	-0.62	-0.43	-0.27	-0.91	-0.73	-0.02	-0.34	-0.55	0.01	0.3	0.69	-0.42	-0.98	-1.13E-01	0.225	0.155	0.731032	0.410927	0.691767	1	0.99511	0.955729
Babam2	Q8UW40	-0.39	-0.37	0.11	-0.08	-0.4	-0.06	-0.25	0.06	-0.73	0.63	0.03	-0.3	-0.44	-0.48	0.1	-0.2	0.02	0.09	-0.0725	0.917827	0.774159	0.749504	1	0.99511	0.961298
Ban1	PS4811	0.18	0.53	0.16	0.51	0.08	-0.37	-0.43	-0.21	0.59	1.8	0.51	0.1	0.41	-0.4375	0.74	0.51	0.0175	0.285	0.463971	0.187177	0.943997	0.1	1	0.99511	0.925612
Bad	Q61337	-0.7	-0.53	-1.13	-1.13	-1.68	-1.17	-2.32	-1.72	-1.13	-1.13	-1.02	-0.73	0.35	-0.65	-0.99	-1.09	-0.6	0.12	0.2775	0.129791	0.672382	0.446234	1	0.99511	0.884817
Ba1	Q3UH93	0.34	0.73	0.41	-0.05	1.37	0.1	-0.7	0.17	0.86	-0.05	0.34	0.98	0.63	-0.05	-0.52	0.86	-0.1225	0.175	-0.1275	0.774336	0.556917	0.717586	1	0.99511	0.953898
Ba1	F6TFC9	-0.62	-0.25	0.7	0.62	-0.28	-0.98	0.44	0.7	-0.98	0.64	0.36	-0.41	-0.66	-0.1	0.87	0.7	-0.1425	-0.21	0.0975	0.758897	0.650613	0.831422	1	0.99511	0.973982
Ba2	Q91YV6	-0.7	-0.53	-1.13	-1.13	-1.68	-1.17	-2.32	-1.72	-1.13	-1.13	-1.02	-0.73	0.35	-0.65	-0.99	-1.09	-0.6	0.12	0.2775	0.129791	0.672382	0.446234	1	0.99511	0.973982
Ba3	Q91YV1	-0.42	-0.52	-0.43	-0.27	-1.33	-0.26	-0.8	-0.34	0.94	-0.12	-0.3	-0.24	1.5	-0.54	-0.25	-0.34	-0.2725	-0.48	0.5025	0.311233	0.9131	0.281473	1	0.99511	0.822084
Ba4	Q8C61	1	1.12	2.83	-2.12	1.37	1.05	2.41	0.95	-1.14	-1.97	1.66	1.57	-0.68	-1.08	2.74	2.49	0.7375	-0.8775	0.16	0.456088	0.588886	0.900958	1	0.99511	0.937575
Ba5	Q8C132	-0.28	-0.25	0.45	0.64	-0.33	-0.33	0.93	0.82	-0.08	1.03	0.56	0.17	0.16	-0.46	0.94	0.85	0.1325	-0.195	0.2325	0.739706	0.59082	0.556634	1	0.99511	0.917092
Ba6	Q3UP95	0.01	0.16	-0.01	-0.08	-0.25	-0.27	-0.31	-0.28	-0.17	-0.34	0.12	0.5	-0.54	-0.16	-0.26	-0.1725	-0.255	-0.385	0.364075	0.237372	0.604596	1	0.99511	0.68433	
Bahap2	Q8BKX1-2	0.1	0.84	1	1.38	0.94	1.04	1.54	1.36	0.4	1.49	0.1	0.15	0.14	0.15	0.14	0.15	0.14	0.15	-0.0875	0.609063	0.564085	0.752765	1	0.99511	0.961478
Bahap3	S4R1C2	0.12	0.71	-1.73	0.04	-0.41	0.29	0.43	-0.24	1.18	1.96	-1.1	0.13	0.58	-0.36	2.3	0.73525	-0.7575	1.0325	0.491498	0.44739	0.57474	0.161214	1	0.99511	0.757375
Ban1	Q08734	-0.8	-0.64	-0.97	-1.24	-0.06	-0.42	-0.52	-0.53	-0.31	-1.13	-0.45	-0.93	0.5	-0.34	-0.79	-0.64	0.56	0.2075	0.595	0.027739	0.423585	0.091438	1	0.99511	0.693136
Ban1	Q5A962	0.98	0.73	1.72	1.41	1.21	0.67	2.25	1.41	0.7	1.26	1.44	0.9	1.27	1.53	1.78	1.76	-0.075	-0.385	0.125	0.833163	0.672254	0.616392	1	0.99511	0.936924
Ban1	Q91YV3	1.2	1.59	1.59	1.22	1.22	0.27	1.28	1.48	0.64	1.99	1.09	0.86	2	0.58	1.05	1.05	0.15	0.025	0.355	0.900915	0.257778	0.63867	1	0.99511	0.947633
Bax	A0A180G7	0.45	0.02	0	0.25	0	0.12	0.39	-0.32	-0.43	0.04	0.09	0.46	-0.17	0.18	-0.54	0.34	-0.1325	-0.14	-0.2275	0.532304					

Bnk1c	Q90CA5	0.7	-0.06	0.38	-0.73	-0.29	0.9	0.35	-0.53	2.94	-1.94	-0.29	-0.33	4.84	-0.01	-0.74	0.3	0.035	0.0225	1.025	0.933443	0.981307	0.388662	1	0.998773	0.86481	
Bnk1d	Q91VR8	2.12	0.47	1.37	0.32	0.7	2.31	1.38	1.51	0.85	0.07	1.73	2.11	0.01	-0.62	2.66	1.03	0.405	0.12	-0.3	0.420948	0.833758	0.69036	1	0.998511	0.955729	
Bnk1s1	Q3U1T3	-1.1	-1.52	1.04	1.14	2.8	-0.67	0.89	1.42	0.5	-0.99	0.69	-1.68	-0.85	0.46	0.47	0.235	-0.08	-0.255	0.785421	0.914548	0.790756	1	0.998755	0.961479		
Bnk1x	Q8XK27	-0.95	-0.8	-0.33	-0.76	-0.99	-0.86	-1.23	-0.65	-0.13	-0.63	-0.73	-0.61	0.13	-0.53	-0.76	-1.19	-0.2225	0.185	0.1225	0.302717	0.418597	0.697758	1	0.998511	0.955729	
Bnk1f1	A0N0N45U	6.04	5.17	5.28	3.17	5.33	5.49	3.85	3.75	1.22	1.6	4.63	5.26	1.36	1.3	4.97	5.78	-0.31	-1.7375	-1.5625	0.658498	0.133699	0.205999	1	0.998511	0.786218	
Bnk1d	Q5JRU5	1.06	0.77	0.87	0.55	0.69	1.05	0.93	0.84	0.6	0.7	0.92	1.23	0.77	0.6	0.76	0.69	0.065	0.05	-0.1075	0.715051	0.81845	0.575602	1	0.998511	0.926728	
Bnk2	Q31UW4	-0.18	0.28	0.25	0.83	-0.56	-0.48	-0.42	-0.48	0.63	0.5	0.21	-0.4	1.6	0.46	0.4	0.4	-0.5375	0.005	0.2125	0.097337	0.804207	0.34978	1	0.998511	0.939167	
Bnk2c	Q6Z928	0.03	0.59	0.92	0.79	0.7	0.46	0.5	0.79	0.4	-1.08	0.79	0.02	0.53	0.7	0.49	0.6	0.03	-0.01	-0.0025	0.896499	0.973983	0.991691	1	0.997355	0.996154	
Bnk2d1	Q921C3	1.09	1.82	1.52	1.25	1.51	1.03	-0.85	-0.62	2.63	-1.66	1.65	1.75	0.65	2.11	0.88	2.18	-0.8425	-0.3275	0.535	0.115346	0.705363	0.200234	1	0.998511	0.78004	
Bnk2d	A0N0R42Z	0.51	0.86	-0.22	0.74	1.34	1.32	0.37	-0.6	-0.13	-0.38	0.04	1.28	0.09	0.17	0.72	0.505	-0.185	0.44	0.359974	0.723895	0.30151	1	0.998511	0.830308		
Bnk2d	Q8Y5T5	0.17	0.16	0.17	-0.15	0.11	-0.16	0.08	-0.12	-0.28	0.41	0.37	0.05	0.22	0.02	0.1	0.32	0.039589	0.440314	0.402147	0.931	0.931	0.830699	1	0.998511	0.961479	
Bnk	K3WVC8	0.32	0.77	0.47	-0.35	-0.09	0.73	0.55	0.23	0.47	-1.13	0.63	0.42	0.2	0.55	0.95	0.26	0.005	0.065	0.681268	0.058349	0.523772	0.26	0.998511	0.750422		
Bnk1	B88737	1.38	1.1	1.24	1.24	0.95	1.27	0.75	1	1.27	0.88	1.2	1.3	1.41	0.95	1.03	0.84	-0.2475	-0.0775	-0.1825	0.175831	0.666996	0.377063	1	0.998511	0.868094	
Bnk1f	Q91EA3	-0.63	-0.37	-0.43	-0.67	0.25	-1.18	-0.72	-1.15	-0.55	0.88	-0.56	-0.56	-1.39	-0.66	-0.99	-0.48	-0.175	0.3275	-0.355	0.600672	0.371801	0.17675	1	0.998511	0.771503	
Bnk1d1	P58544	-1.71	-1	0.64	-0.89	-0.73	-0.78	-0.47	-0.51	2.3	-0.67	0.07	1.07	2.58	0.11	-0.24	0.17	0.3525	0.8979	1.395	0.509096	0.287227	0.085798	1	0.998511	0.691919	
Bnk1d10	E926L8	-0.18	0.62	1.05	0.83	-0.56	-0.12	0.85	0.1	0.96	1.06	0.64	0.46	1.29	1.15	0.73	0.22	-0.245	0.6205	0.133	0.445817	0.388995	0.57002	1	0.998511	0.855416	
Bnk1d10	Q65GQW0	0.76	0.94	1.03	0.97	1.21	0.79	0.85	1	0.83	1.25	0.95	0.68	0.17	1	0.21	0.9	0.0375	0.0025	-0.355	0.821866	0.989528	0.192243	1	0.998511	0.77773	
Bnk1d17	Q950B72	-0.54	-0.19	-0.12	-0.13	0.22	-0.52	0.31	-0.17	-0.4	-0.71	-0.29	-0.31	-0.86	0.07	-0.55	-0.6	0.205	-0.185	-0.24	0.390645	0.358173	0.355562	1	0.998511	0.850029	
Bnk1d8	Q3T7E0	0.14	0.03	0.37	0.58	0	-0.15	-0.33	-0.08	-1.4	-1.41	0.03	0.76	-0.46	-0.87	0.06	0.42	-0.42	-0.785	-0.4925	0.045511	0.153151	0.146238	1	0.998511	0.746406	
Bnk1d9	Q8C726	-1.26	-0.74	-1.78	-2.21	-0.69	-1.47	-1.77	-2.75	-0.14	-0.45	-2.15	-1.01	-0.04	1.45	-2.3	0.47	-0.1725	0.785	0.6575	0.726275	0.209929	0.4468	1	0.998511	0.80901	
Bnk1d	A0N0R413	0.43	0.76	-0.74	-4.11	-3.94	0.54	0.58	-4.06	-4.87	0.13	-0.65	-4.3	1	0.37	0.02	-2.37	-3.58	-0.2325	0.765	0.33	0.895014	0.630412	0.820564	1	0.998511	0.972768
Bnk1f	Q64152	-4.33	-4.66	-1.55	-3.32	-4.17	-4.82	-3.2	-3.22	-3.54	-1.9	-3.31	-4.18	-3.07	-3.77	-3.12	0.0125	0.6325	0.45	0.980018	0.27655	0.278694	1	0.998511	0.822084		
Bnk1f4	Q95C0H7	-4	-4.24	-3.22	-3.53	-3.57	-4.48	-3.57	-3.83	-4.11	-1.52	-3.57	-3.51	-4.14	-3.09	-3.37	-3.83	-0.115	0.57	0.14	0.712122	0.32737	0.678317	1	0.998511	0.952944	
Bnk3	A01410ZU	-5.47	-6.42	-4.81	-6.04	-6.14	-6.25	-5.91	-5.46	-5.9	-3.67	-5.01	-5.2	-4.12	-5.35	-4.46	-5.59	-0.255	0.74	0.805	0.50042	0.193991	0.112085	1	0.998511	0.713445	
Bnk1d3	Q8R149	-1.36	-2.2	-0.67	-0.45	-1.27	-1.6	0.04	0.43	-1.16	-0.87	-0.36	-1	-0.14	0.77	-0.1	0.65	0.57	0.3225	1.465	0.337344	0.440003	0.008398	1	0.998511	0.953386	
Bnk1d3	Q6P8H1	-1.4	-1.55	-1.82	-1.83	-1.82	-1.39	-1.85	-1.3	-0.06	-0.99	-1.89	-1.74	0.12	-1	-2.17	-2.75	0.06	-0.405	0.2	0.772319	0.93817	0.7364	1	0.998511	0.958635	
Bnk1f	Q5A825	-1.11	-1.56	-0.15	-0.85	-1.52	-1.73	-1.34	-1.08	-2.95	-2.98	-0.53	-1.25	-2.99	-4.09	-1.58	-0.88	-0.43	-1.01	-1.4525	0.231633	0.133419	0.063997	1	0.998511	0.66433	
Bnk1f	A0A0R7WC	-1.63	-1.94	-2.32	-2.34	-2.01	-1.79	-2.63	-2.68	-2.11	-1.14	-2.48	-1.89	-1.81	-1.63	-2.89	-3.28	-0.4475	0.1375	0.345	0.372354	0.646492	0.119212	1	0.998511	0.875558	
Bnk2f	Q91VK1	-1.59	-1.38	-1.39	-1.58	-1.75	-1.18	-1.12	-1.26	-1.05	-1.15	-1.15	-1.52	1.61	1	0.12	0.1875	0.338939	0.710512	0.1225	0.1875	0.338939	0.710512	0.1225	1	0.998511	0.875558
C030000861Q9EY5	2.93	1.21	0.71	1.21	0.52	2.48	0.31	1.17	0.79	1.82	1.02	2.05	0.69	1.05	0.21	-0.14	-0.395	-0.095	-1.0625	0.533688	0.867932	0.064355	1	0.998511	0.66433		
C1q4	P90806	-3.88	-5.07	-3.67	-3.52	-4.13	-4.08	-2.58	-3.47	-3.8	-2.14	-3.92	-3.61	-3.1	-3.51	-2.74	-3.35	0.47	0.6675	0.86	0.329966	0.209427	0.047129	1	0.998511	0.658454	
C1q4b	P14106	-3.11	-3.38	-2.18	-3.14	-2.7	-3.62	-1.14	-1.87	-4.47	-0.77	-1.45	-2.75	-2.99	-3.43	-1.19	-0.93	0.17	0.425	0.3675	0.791999	0.862647	0.607029	1	0.998511	0.932961	
C1q4b	Q8R5L1	-3.81	-4.1	-3.86	-4.17	-4.4	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-0.15	0.68517	0.394003	0.051029	1	0.998511	0.651738		
C1q4c	Q02105	-2.38	-3.47	-4.21	-3.53	-3.06	-2.55	-3.31	-3.88	-2.58	-2.45	-3.82	-2.46	-2.31	-2.85	-2.99	-3.66	0.1975	0.57	0.445	0.653402	0.246506	0.330978	1	0.998511	0.845601	
C1q4f	Q9E5N4	0.15	0.6	0.47	0.35	0.66	0.45	0.94	0.57	0.15	-0.18	0.25	0.59	0.21	0.81	0.38	0.44	0.2625	-0.19	0.0675	0.78268	0.40142	0.752806	1	0.998511	0.961479	
C1q4f4d	Q8R066	0.43	0.45	0.18	0.32	0.71	0.52	0.59	0.52	-0.12	1.16	0.1	0.67	0.11	-0.07	0.85	0.07	0.24	0.1075	0.07	0.138002	0.721885	0.792676	1	0.998511	0.969633	
C1q4d	E93C12	0.16	0.34	0.77	0.58	1.18	0.7	0.85	0.92	0.24	0.62	0.39	0.56	0.79	0.16	0.1	0.1	0.1875	0.57	0.535334	0.462038	0.047342	1	0.998511	0.961479		
C1q4d	Q8X080	0.35	0.01	0.08	0.32	-0.1	0.16	0.6	0.38	0.13	0.16	0.04	0.36	0.66	0.45	0.54	0.34	0.07	0.1075	0.3075	0.731643	0.921428	0.12943	1	0.998511	0.723655	
C2d4c	Q5H2H	-0.14	0.15	0.5	0.4	-0.02	-0.22	0.44	0.24	0.77	0.43	0.64	0.32	1.06	0.69	0.61	0.61	0.1755	0.3125	0.515	0.604133	0.171537	0.045606	1	0.998511	0.658454	
C2d4c	Q7TP55	1.63	2.17	1.23	1.9	5.79	0.2	0.09	0.73	5.68	2	1.41	2.98	3	3.15	3.12	1.19	-0.03	1.285	0.8825	0.980647	0.165667	0.959507	1	0.998511	0.698156	
C2d4c	A0N0R42Z	0.65	0.73	0.87	0.71	0.86	0.57	0.91	0.81	0.37	0.6	0.66	0.64	0.47	0.69	0.99	0.0475	-0.1725	-0.085	0.769999	0.313667	0.671161	1	0.998511	0.952631		
C4b	P10127	-1.81	-1.4	-3.8	-4.17	-4.4	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-4.24	-3.64	-0.15	0.68517	0.394003	0.051029	1	0.998511	0.651738		
C4b	P10129	-1.07	-0.8	-0.57	-0.2	-0.48	-0.13	0.28	-0.08	-0.63	1.16	-0.27	-0.07	-1.16	0.36	-1.07	0.16	0.33	0.3325	0.25	0.324265	0.980294	0.28634	1	0.998511	0.908663	
C9a0f72	Q6F00W0	-0.95	-0.55	0.67	0.7	0.43	0.13	-0.47	0.96	0.67	-0.99	-0.49	-1.54	-0.29	0.23	0.0175	0.075	-0.345	0.972721	0.896269	0.859573	0.357592	1	0.998511	0.912122		
C9a1	P13634	0.72	-0.94	0.8	2	-0.61	1.7	0.43	2.37	-1.16	-1.14	-0.45	-1.64	0.03	-0.81	0.71	0.79	0.3275	-1.7425	-1.215	0.688976	0.101573	0.063452	1	0.998511	0.66433	
C9a1d	P12115	0.7	1.14	0.81	1.18	0.7	0.87	0.96	0.92	0.24	0.62	0.39	0.56	0.79	0.16	0.1	0.1	0.1875	0.57	0.535334	0.462038	0.047342	1	0.998511	0.961479		
C9a1d	Q70354	2.67	1.05	0.6	0.39	0.7	2.8	0.7	0.08	1.24	0	0.5	2.19	1.34	0.83	-0.08	0.02	-0.1075	-0.195	-0.65	0.880996	0					

Cajpb	P47577	0.4	0.64	0.6	1.84	0.03	0.13	0.55	0.78	0.95	2.72	1.05	0.19	0.74	1.22	1.01	1.06	-0.4975	0.3575	0.1375	0.187366	0.538928	0.689026	1	0.956511	0.955729
Carnd	Q50112	0.07	0.18	0.75	1.23	-0.59	0.11	0.98	0.72	0.45	0.72	0.67	-0.03	0.93	-0.37	0.58	1.56	-0.2525	-0.105	0.1175	0.545886	0.742999	0.797326	1	0.956511	0.969727
Carhsp1	Q5C386	0.01	0.12	0.68	0.27	0.5	-0.73	0.51	0.72	0.08	-1.82	-0.77	0.12	0.19	-0.21	0.98	1.13	-0.3475	-0.43	0.265	0.118549	0.316836	0.581814	1	0.956511	0.887902
Carl1	DYJYU1	-0.53	-0.24	-1.02	-1.21	-0.17	-0.4	-1.15	-1.32	-0.49	-1.77	-1.04	-0.68	-0.7	-0.32	-1.48	-1.64	-0.01	-0.245	-0.285	0.978486	0.493383	0.565676	1	0.956511	0.887169
Carml1	D23030	0.16	0.2	0.83	0.65	0.45	0.19	1.04	0.82	0.11	0.96	1.01	0.35	0.17	0.29	0.73	0.81	0.165	0.1475	0.04	0.531215	0.611204	0.887236	1	0.956511	0.979626
Carml2	S00H18	0.86	0.95	0.47	0.65	1.1	0.4	0.85	0.69	0.92	-0.33	0.46	0.49	1.55	0.54	0.88	0.23	0.0275	-0.3475	0.0675	0.895767	0.251334	0.828735	1	0.956511	0.973757
Carml3	Q3JF08	1.29	0.21	0.99	0.33	-0.12	0.59	0.67	0.44	1.15	1.61	0.81	1.11	1.01	1.14	0.74	0.37	-0.3825	0.0075	-0.225	0.095494	0.967218	0.33302	1	0.956511	0.76392
Carml4	Q8OU11	-1.79	-2.6	-0.3	-0.42	-3.39	-1.01	-1.39	-0.96	-0.06	-0.74	-0.19	-0.84	-1.73	-1.13	-0.78	-0.55	-0.41	0.82	1.095	0.574506	0.157462	0.1799	1	0.956511	0.775542
Carml5	Q9ER72	-0.55	-0.97	-0.82	-0.8	-1.07	-0.75	-0.98	-0.57	-1.12	-0.83	-0.66	-0.45	-1.08	-0.71	-1.04	-0.98	-0.0575	0.02	-0.1675	0.756025	0.932889	0.397714	1	0.956511	0.867334
Carml6	Q8RYN8	1.5	1.83	0.36	0.53	0.69	1.48	0.27	0.45	0.62	0.02	0.37	1.58	0.3	1.16	0.17	0.11	-0.3325	-0.4075	-0.705	0.437392	0.387675	0.133657	1	0.956511	0.729871
Carml7	P55385-2	-1.22	-0.78	-1.36	-0.27	-0.5	-2.13	-0.08	-0.41	-0.73	-0.17	-0.38	-0.17	-0.37	-0.19	-0.21	1.61	0.4875	0.70326	0.311379	0.101033	0.195111	0.563386	1	0.956511	0.963286
Carml8	Q8W3V1	-1.71	-1.76	-1.29	-1.76	-2.27	-2.21	-1.27	-1.48	-1.94	0.18	-1.58	-1.92	-0.29	-1.52	-0.76	-1.67	-0.0735	0.135	0.0317	0.131587	0.124287	0.14874	1	0.956511	0.721448
Cask1	Q7N7N3	-0.29	-0.59	-0.32	0.12	0.24	-2.74	0.44	-0.82	-0.26	-0.73	-0.93	-0.93	-0.47	1.27	-0.49	0.41	-0.45	-0.4425	0.45	0.509596	0.09516	0.304486	1	0.956511	0.831662
Caskd	B1AUH5	0.71	1.02	1.24	2.51	1.77	0.65	1.34	2.77	0.59	3.2	2.14	0.77	0.15	-0.107	1.97	1.31	0.2625	0.305	-0.78	0.622205	0.648897	0.285545	1	0.956511	0.822669
Cask	Q70589	0.75	0.48	0.93	0.87	0.75	0.79	1.17	1.03	0.29	0.83	0.95	0.8	-0.06	0.29	0.89	0.82	0.1775	0.04	-0.2725	0.347545	0.853287	0.228880	1	0.956511	0.844943
Caskn1	Q8P9K8	0.29	0.52	0.93	1.05	0.48	0.36	0.74	1.15	1.15	0.81	1.11	1.01	1.14	0.74	0.37	-0.3825	0.0075	-0.225	0.095494	0.967218	0.33302	1	0.956511	0.845601	
Caskn2	Q8YK11	-0.03	0.46	0.4	0.39	0.13	-0.06	0.53	0.35	-0.3	0.99	0.45	-0.06	-0.26	-1.02	0.85	0.52	-0.0675	-0.035	-0.2825	0.739664	0.912308	0.501615	1	0.956511	0.901002
Casp1	P29452	-1.42	-2.28	-1.31	-0.59	-0.68	-0.84	-0.32	-0.07	-0.86	3.21	-1.24	-1.82	-0.76	-1.15	0.05	-0.92	0.2325	1.2225	0.705	0.032423	0.27342	0.194678	1	0.956511	0.718608
Casp2	P70677	-0.7	-1.19	-1.67	-1.44	-0.7	-1.01	-1.41	-1.23	-0.45	-0.79	-1.52	-0.07	-1.01	-0.72	-1.61	1.57	0.1625	0.5425	0.0225	0.545628	0.159708	0.516217	1	0.956511	0.991114
Casp6	Q08738	-2.44	-2.35	-1.7	-2.02	-0.67	-0.88	-1.23	-1.9	-1.1	-0.62	-1.37	-0.79	-3.22	-0.42	-1.32	-1.72	0.0575	1.1575	0.3075	0.01312	0.001567	0.598307	1	0.956511	0.927734
Casp7	P97864	-0.85	-1.31	-0.64	-0.29	-2.35	-0.9	-1.26	-0.9	0.6	0.29	-0.83	-0.88	1.63	-2.07	-0.75	-1.39	-0.58	0.5675	0.1275	0.156249	0.195096	0.865407	1	0.956511	0.977956
Casp8	AD08X7WC	-1.92	-2.31	-0.39	0.32	-1.55	-2.47	-1.1	0.16	-3.24	0.38	-0.23	-1.69	-3.09	-0.49	-0.73	-0.1	-0.165	-0.12	-0.7775	0.825702	0.89601	0.417428	1	0.956511	0.875558
Casp9	E99267	-1.03	-0.83	-0.04	-0.73	-0.14	-1.13	-0.36	-0.39	0.3	0.91	-0.04	-1	1.11	-0.43	0.09	-0.3	0.0925	0.55	0.775	0.757438	0.218931	0.077145	1	0.956511	0.676667
Cast	Q8C281	-0.85	-0.65	-0.43	-0.39	-1.37	-0.87	-1.27	-0.77	-0.89	-0.33	-0.87	-0.64	-0.66	-0.73	-1.06	-1.1	-0.44	-0.0525	-0.2575	0.070813	0.81296	0.26158	1	0.956511	0.61412
Cast2	Q8CA88	-1.16	-0.6	-0.85	-1.39	-1.08	-1.09	-0.93	-1.1	0.23	-0.91	-1.09	-0.82	0.43	0.03	-1.13	-0.83	-0.05	0.3525	0.625	0.809479	0.315124	0.136217	1	0.956511	0.731656
Cat	P24270	0.07	-0.02	0.61	0.8	0.6	0.69	1.18	0.83	0.72	0.41	0.6	0.28	0.91	0.75	0.81	0.84	0.46	0.1375	0.4625	0.093463	0.582131	0.082627	1	0.956511	0.68885
Cat1	P49817	-0.42	-0.44	-0.08	-0.37	-0.3	-0.5	0.08	-0.33	-1.14	-0.5	0.51	-0.15	-0.18	-1.69	-0.21	-0.03	0.025	-0.135	0.920636	0.927386	0.752074	0.196147	1	0.956511	0.961479
Cavm1	Q54724	-0.57	-0.54	-0.3	-0.29	-0.34	-0.52	-0.49	-0.43	-0.54	-0.12	-0.13	-0.33	-0.47	-0.41	-0.64	-0.46	-0.02	0.445	-0.07	0.898965	0.442812	0.699462	1	0.956511	0.955729
Cavm2	Q59918	-0.26	-0.36	-0.17	-0.11	-0.8	-0.73	0.13	-0.17	-0.39	0.6	0.1	0.76	-0.14	-0.89	-0.47	0.09	-0.0425	0.195	0.195	0.888446	0.531499	0.588779	1	0.956511	0.918101
Cavm3	Q9V171	-2.61	-3.36	-3.43	-1.4	-2.29	-2.61	-3.57	-3.39	-2.56	-1.62	-1.38	-2.61	-1.44	-2.99	-3.12	-3.26	0.17	0.6425	0.4325	0.64294	0.104148	0.338764	1	0.956511	0.847874
Charp	Q66144	0.36	0.59	0.17	0.03	0.85	0.76	-0.11	-0.09	0.24	-0.06	0.31	0.79	0.37	0.93	1.09	0.28	0.065	0.5775	1.055	0.82225	0.283513	0.08943	1	0.956511	0.692127
Charp	Q9U610	-1.05	-2.27	-1.31	-0.73	-1.87	-0.01	-0.56	-0.26	-1.62	-0.21	-0.22	-1.09	-1.97	-0.17	-0.75	-0.3	0.665	0.6275	0.198497	0.204466	0.515977	0.196977	1	0.956511	0.808992
Chf2a12	A2AD09	-0.27	-0.13	-0.38	-0.96	-0.53	-1.16	-0.97	-1.52	-1.55	-2.56	-2.53	-1.1	-1.14	-1.01	-2.37	-0.2225	0.0075	-0.205	0.694984	0.893718	0.798427	0.198427	1	0.956511	0.969727
Chf6	Q08042-2	-0.29	-0.42	-0.98	-0.8	-0.14	-0.46	-0.8	-0.57	-0.42	-0.46	-0.58	-0.5	-0.93	0.78	-0.85	-1.2	0.2	0.1325	0.0725	0.457207	0.525908	0.87231	1	0.956511	0.975626
Chl	P22682	-0.07	-0.12	-0.13	0.31	-0.38	-0.4	-0.16	-0.05	-0.25	0.01	-0.21	-0.1	-0.15	-0.21	-0.09	-0.19	-0.28	-0.17	-0.1925	0.145363	0.364009	0.151946	1	0.956511	0.838969
Chl2	B9K155	0.25	0.39	-0.92	-0.26	0.68	0.19	-0.09	-0.29	0.86	0.26	-0.29	0.27	0.53	0.83	-0.77	-0.5	0.2575	0.0725	0.1575	0.448637	0.483306	0.732982	1	0.956511	0.958635
Chl3	E9M171	0.64	0.92	0.14	0.38	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	0.78	0.774088	0.552499	0.36167	1	0.956511	0.958734
Chl4	Q9R171	0.26	0.63	-0.93	-1.03	1.37	1.01	-0.12	-0.73	0.71	-0.17	-0.08	0.11	0.63	1.38	-0.44	-1.09	0.65	0.16	0.38575	0.285755	0.76346	0.534307	1	0.956511	0.912122
Chl4n	Q8M8E9	-0.61	-0.83	-0.15	0.26	-0.05	-1.24	-0.41	0	-1.06	-0.27	0.12	-0.63	-1.15	-1.17	-0.05	-0.28	-0.3025	-0.5425	-0.02	0.495582	0.180168	0.969703	1	0.956511	0.927767
Chl1	P48758	0.33	-0.35	-0.15	-0.53	-0.18	-0.1	0.39	-0.04	0.04	-1.65	0.03	0.29	0.34	-0.55	-0.21	0	0.2425	-0.1475	0.175	0.323295	0.745974	0.547037	1	0.956511	0.912571
Chl2	P08074	0	-0.15	-0.38	-0.86	-0.83	-0.86	-0.58	-0.1	-0.43	-0.81	-0.09	-0.01	-0.12	-0.97	-0.39	-0.69	-0.675	-0.4475	-0.05875	0.377447	0.221559	0.022131	1	0.956511	0.621926
Chl3	Q8K534	0.05	-0.02	-0.17	-0.31	-0.01	-0.25	-0.07	-0.14	-0.08	-0.12	-0.07	-0.01	-0.02	-0.07	-0.02	0.83	-0.19	0.520111	0.76494	0.91627	0.0221	0.0221	1	0.956511	0.928943
Chl4	Q9V174	1.6	0.77	0.54	0.34	1.22	0.82	0.78	-0.06	-0.06	1.14	1.14	-0.06	0.15	0.31	0.78	-0.115	-0.365	-0.61	0.698755	0.374484	0.073542	0.196147	1	0.956511	0.669435
Chl5	Q91W79-2	0.28	-0.72	-0.26	-0.23	-0.14	0.23	-0.46	-0.06	-0.15	0.21	0.11	-0.07	-0.49	-0.04	-0.15	-0.44	0.125	0.2575	-0.0475	0.630456	0.80083	0.855366	1	0.956511	0.976225
Cbw1	Q8YH6	-0.64	-0.44	0.5	0.92	-0.66	-0.72	0.75	-0.77	-0.44	0.69	0.61	-0.05	-0.48	-1.39	-0.45	0.28	-0.05	0.1175	-0.595	0.927727	0.787547	0.311395	1	0.956511	0.788863
Cbw1	P83911	-0.27	-0.13	-0.17	-0.18	-0.18	-0.24	-0.21	1.26	-2.26	-1.03	-2.89	-2.1	-0.91	-1.68	-0.39	-0.72	-0.0525	0.0075	0.72	0.074176	0.457266	0.176331	1	0.956511	0.959524
Cbw3	Q9OCC5	0.49	-0.34	-1.4	-0.66	-0.73	-0.31	-1.27	-0.83	-0.05	-1.74															



Cd42z9pb	Q7T750	0.55	-0.05	0.41	0.34	0.02	0.42	0.26	0.45	0.06	0.43	0.52	0.28	-0.27	0.08	0.12	-0.05	-0.025	0.01	-0.3425	0.898792	0.961547	0.133311	1	0.99675	0.728417
Cd42z9p1	AD0K4005	0.6	1.08	1.06	0.81	0.86	0.24	0.59	0.06	0.12	0.12	0.48	0.11	-0.01	0.32	0.59	0.91	-0.45	-0.63	-0.435	0.077844	0.010364	0.175726	1	0.99651	0.718809
Cd42z9p2	Q8ZK9	1.15	2.45	0.82	0.59	2.7	2.49	-0.27	0.37	0.18	0.24	0.12	0.19	1.81	0.31	0.32	0.21	-0.24	-0.51	0.817649	0.741169	0.49513	1	0.99651	0.89758	
Cd42z9p4	Q9JM96	0.08	0.35	0.41	0.19	-0.2	0.34	0.3	0.13	0.35	0.2	0.76	0.59	0.85	0.51	0.48	-0.24	-0.115	0.2175	-0.445	0.538664	0.068638	0.956576	1	0.99651	0.929911
Cd42z9e2	Q8GH47	0.34	1.02	0.3	0.43	0.73	0.81	0.69	0.58	1.69	0.59	0.44	0.71	1.46	2.09	0.18	0.47	0.18	0.33	0.5275	0.391037	0.321454	0.257393	1	0.99651	0.812003
Cd5i	Q6A068	1.18	-0.44	-0.09	0.28	-0.48	0.47	0	1.11	-0.02	0.14	0.27	-0.49	0.47	0.27	0.9	0.02	0.0425	-0.2575	0.1725	0.920995	0.496338	0.575183	1	0.99651	0.948659
Cd73	Q8JZM7	0.05	-2.09	1.11	0.47	-2.08	-1.03	0.04	-0.35	0.06	-0.33	-0.61	-0.86	0	0.77	0.28	-1	-0.22	-0.06	0.5325	0.826277	0.909750	0.15118	1	0.99744	0.837838
Ch10	P70408	0.68	0.99	1.09	0.98	1.08	0.76	1.04	0.89	0.87	1.4	1.21	1	0.34	1.3	0.63	0.75	0.0075	0.185	-0.18	0.964513	0.361805	0.481597	1	0.99651	0.893925
Ch11	P55288	0.61	1.13	1.01	1.03	1.17	0.91	1.02	0.88	0.8	0.8	1.31	1.03	0.01	0.34	0.42	0.87	0.05	0.04	-0.535	0.776622	0.848887	0.05449	1	0.99651	0.661738
Ch12	Q5RH43	0.36	0.77	1.1	0.81	1.08	0.26	0.7	0.67	0.25	0.83	1.04	0.71	-0.38	0.34	0.08	1.3	0.0825	-0.0525	-0.495	0.733511	0.833401	0.163845	1	0.99651	0.758352
Ch13	Q9VTH3	1.02	0.32	0.38	0.15	0.23	0.38	0.15	0.13	0.13	0.08	0.27	0.12	0.08	0.13	0.08	1.3	0.08	0.13	-0.095	0.138557	0.684235	0.986341	1	0.99651	0.996485
Ch14	Q9J506	1.86	1.56	1.59	1.77	1.93	1.58	1.55	1.26	0.63	1.7	2.07	1.08	-0.08	0.79	1.99	1.09	0.1425	-0.1375	-0.62	0.481582	0.046640	0.732322	1	0.99651	0.76392
Ch19	E9Q347	0.87	1.11	0.67	0.74	1.65	0.51	0.05	1.24	1.12	1.2	0.71	0.87	0.99	1.93	0.62	0.94	0.015	0.1275	0.2725	0.966402	0.526586	0.387926	1	0.99651	0.864251
Ch2	Q3Y7T0	0.62	1.08	0.96	1.04	1.13	0.63	1.06	0.88	0.66	0.87	1.09	0.98	0.2	0.67	0.44	0.86	-2.4E-16	-0.025	-0.3825	-1	0.897152	0.116187	1	0.99651	0.718608
Ch20	Q9ZD43	0.15	1.19	0.98	0.93	1.06	0.48	1.35	1.32	0.78	1.14	1.14	0.76	-0.32	0.75	1.35	1.21	0.14	0.1425	-0.085	0.464883	0.597801	0.87749	1	0.99651	0.979526
Ch22	Q9VTH5	1.81	1.57	2.93	1.62	2.06	-1.55	2.19	1.54	0.62	1.44	1.65	0.97	0.8	0.77	0.28	-1	-0.22	-0.06	0.5325	0.826277	0.909750	0.15118	1	0.99651	0.658454
Ch3	P93038	1.61	1.68	0.89	1.19	1.79	1.52	1.37	0.95	1.18	0.73	1.05	1.68	0.56	1.04	0.92	1.03	0.065	-0.1825	-0.455	0.805167	0.523152	0.096665	1	0.99651	0.698156
Ch5	P55284	-1.4	-0.92	-0.49	0.13	-0.27	-1.3	-0.49	-0.87	-0.78	0.54	0.25	-0.96	-0.36	-0.55	0.42	0.22	-0.0625	0.4325	0.6025	0.868106	0.362693	0.145712	1	0.99651	0.745321
Ch6	P97326	1.33	1.58	2.43	2.07	1.29	0.96	1.81	1.66	1.39	1.95	2.26	1.35	0.52	1.6	1.05	1.77	-0.4225	-0.115	-0.6175	0.193388	0.727651	0.120952	1	0.99651	0.721448
Ch7	Q8B402	1.85	2.01	1.17	0.74	2.15	1.75	1.24	0.99	1.49	-0.06	1.47	1.9	0.83	0.1	0.48	1.44	0.09	0.3925	-0.2775	0.830441	0.515711	0.510292	1	0.99651	0.903419
Ch8	P97291	1.3	1.56	1.21	0.94	1.83	1.42	1.22	1.16	0.39	0.83	1.46	1.75	-0.59	0.12	0.16	1.22	0.155	-0.145	-1.025	0.489749	0.662079	0.024101	1	0.99651	0.626254
Ch9	F8WHU6	1.32	1.14	2.41	0.85	1.28	1.62	3.28	1.87	0.42	0.21	2.46	1.54	0	1	2.66	3.19	0.5825	-0.2725	0.2825	0.273626	0.637081	0.701466	1	0.99651	0.956791
Cd1p	Q9B075	-0.27	0.05	-0.18	0.48	0.2	-0.51	-0.94	0.01	-0.13	1.35	-0.45	-0.38	0.89	1.18	-0.17	-0.62	-0.33	0.14	0.3	0.294977	0.736812	0.497035	1	0.99651	0.897918
Cd1p1	Q9VD96	-2.1	-1.28	-1.16	-1.59	-0.85	-1.66	-0.83	-1.67	-2.04	-1.41	-1.55	-1.91	-1.95	-1.5	-1.62	1.05	0.405	-0.195	0.0025	0.28976	0.479695	0.993236	1	0.99651	0.996485
Cd1b1	A2A9P6	-1.05	-2.14	-1.19	-1.77	-1.56	-2.12	-0.94	-1.07	-2.11	-0.45	-1.86	-2.03	-1.18	-0.5	-0.1	0.86	0.115	-0.0755	0.8775	0.746189	0.864596	0.029322	1	0.99651	0.637553
Cd13	Q69Z41	1.42	-0.25	-1.68	-1.23	-0.59	-0.27	-1.39	-1.35	0.12	-3.86	-1.48	0.4	1.09	0.69	-2.13	-2.22	-0.33	-0.77	-0.2075	0.6436	0.479057	0.836378	1	0.99651	0.975831
Cd14	Q35495	0.83	-0.25	0.69	0.67	0.35	1.41	0.25	0.91	-1.27	-0.04	0.6	0.77	-0.88	-1.39	0.55	0.78	0.245	-0.47	-0.72	0.49192	0.349689	0.207053	1	0.99651	0.785338
Cd15	Q4W735	0.51	0.79	1.16	0.96	0.69	0.06	0.74	0.73	1.36	0.22	1.1	1.03	1.34	1.39	0.67	0.89	-0.15	0.8175	0.2175	0.420243	0.126374	0.402486	1	0.99651	0.870998
Cd17	Q8X020	0.02	0.18	0.89	0.31	0.63	0.44	0.12	0.01	0.22	0.64	1.04	0.6	0.73	0.6	0.2	0.4	0.0675	0.14765	0.14765	0.923566	0.98375	0.98375	1	0.99651	0.98375
Cd18	Q904M9	0.02	-0.04	0.21	0.36	-0.02	-0.72	0.42	0.05	0.09	0.45	-0.14	0.12	0.11	0.07	0.2	-0.18	-0.205	-0.205	-0.0875	0.443655	0.800434	0.564724	1	0.99651	0.948172
Cd19	Q8BW08	-1.27	-2.04	1.13	0.59	-1.17	-1.44	1.38	1.21	-1.81	0.88	1.09	-1.38	-1.6	-1.58	0.86	0.5	0.3925	0.0925	-0.075	0.682444	0.922802	0.948829	1	0.99651	0.992476
Cd20	Q9JHU3	-0.31	-0.76	-0.56	0.46	-1.24	-0.76	-0.74	-0.85	0.12	0.26	-0.17	-0.56	-0.18	0	-0.35	-0.13	-0.605	0.2025	0.1275	0.604079	0.928862	0.66454	1	0.99651	0.949425
Cd2p1	F2Z4B3	1.24	2.37	2.33	1.38	2.06	-1.55	2.19	1.54	-2.15	0.17	-3.55	2.79	-1.36	-1.37	1.14	2.55	0.9975	0.166057	0.9975	0.455138	0.987126	0.987126	1	0.99651	0.987126
Cd4	E9Q6E4	-0.07	0.16	-0.57	0.43	-0.42	-0.51	-0.62	-0.65	-0.23	0.36	-0.04	-0.26	0.3	0.05	-1.31	0.73	-0.5375	-0.03	-0.56	0.045851	0.917167	0.143517	1	0.99651	0.742733
Cd5	P49615	1.09	0.1	-0.28	0.24	0.37	1.08	0.73	-0.3	-0.05	-0.45	0.04	1.03	-0.58	0.84	-0.09	-0.14	0.3025	-0.025	-1.6	0.466346	0.952993	0.702847	1	0.99675	0.956859
Cd5r1	P18M09	-0.27	-0.68	-0.3	-0.16	-0.23	-0.87	-0.41	-0.64	-0.68	0.32	-0.4	-0.68	-0.26	-0.27	-0.53	-0.05	-0.0725	0.105	0.1725	0.74237	0.73504	0.529591	1	0.99651	0.908663
Cd5r2	O35926	0.46	0.55	0.74	0.41	0.75	0.68	0.99	0.49	-0.06	1.47	1.9	0.83	0.1	0.48	1.44	0.09	0.3925	-0.2775	0.830441	0.515711	0.510292	1	0.99651	0.903419	
Cd5r3p3p3	Q9JLM2	-0.58	-0.42	-0.44	-0.48	-0.49	-0.44	-0.06	-0.49	0.18	-0.22	-0.7	-0.49	-0.48	-0.14	0.02	-0.06	0.11	0.1725	0.555	0.513432	0.454812	0.022554	1	0.99651	0.623147
Cd7	A0A288DYd	-4.72	-4.54	-2.43	-1.97	-0.42	-5	-2.2	-2.46	-4.09	-1.36	-1.57	-4.21	-2.29	-2.27	-2.49	-1.6	0.005	0.6075	1.2525	0.995424	0.526692	0.088256	1	0.99651	0.691619
Cd9	Q9J995	-2.28	-3.02	-3.07	-3.17	-2.37	-2.95	-2.65	-3.02	-2.89	-2.63	-3.09	-2.12	-2.43	-1.68	-2.96	-3.21	0.1375	0.2025	0.315	0.601503	0.503684	0.421186	1	0.99651	0.875639
Cd1a1	Q9JW6E2	-1.02	-0.37	-0.26	0.04	1.24	-0.66	-0.23	-0.41	0.35	-0.48	0.15	1.31	1.16	0.27	0.33	-0.0475	0.1	0.735	0.950684	0.707004	0.969664	1	0.99651	0.638454	
Cd1a2	AD0AG2G6	1.15	0.39	0.61	0.85	0.15	0.24	0.15	0.14	0.17	0.13	0.14	0.17	0.13	0.14	0.17	0.13	0.14	0.17	-0.4975	0.671161	0.599029	0.105977	1	0.99651	0.671161
Cd1b1	P46414	-1.98	-1.59	-1.18	-2.29	-1.58	-2.05	-2.14	-1.74	-1.13	-1.51	-1.04	-1.57	-0.77	-3.89	-0.66	-1.79	0.3975	0.6025	0.475	0.865223	0.709434	0.966161	1	0.99651	0.949465
Cd1z2ap	Q8B172	-2.06	-3.15	-1.87	-1.8	-2.31	-2.68	-2.13	-2.25	-2.74	-1.12	-1.73	-2.8	-2.09	-2.68	-1.18	-2.06	-0.3475	0.1225	-0.0325	0.370844	0.799193	0.294973	1	0.99651	0.988301
Cd1n2z	Q80772	0.01	-0.24	-2.05	-2.09	-0.26	-0.42	-2.41	-2.26	-1.57	-1.41	-1.86	-0.17	-0.92	-0.46	-2.24	-2.37	-0.115	-0.16	-0.46	0.888084	0.799737	0.551499	1	0.99651	0.914317
Cd2i	A2AHT1	-0.05	-0.76	-1.2	-0.81	-2.32	-2.52	-1.46	1.81	-1.76	-1.17	-1.52	-2.22	-0.48	-1.79	0.24	0.15	0.3475	0.395	0.559749	0.188466	0.114165	0.986877	1	0.99651	0.986877
Cd5i	P9B191	-0.85	-0.66	-0.03	0.14	0.27	-0.81	-0.16	0.47	-0.59	1.34	-0.12	-0.95	0.1	0.49	0.77	0.81	0.3625								

Cla2b2	Q90187	0.34	0.47	0.03	-0.05	0.83	-0.33	-0.2	-0.31	0.15	-0.01	-0.27	0.22	-0.78	0.37	-0.07	-0.64	-0.2	-0.175	-0.6525	0.513649	0.411329	0.062133	1	0.995511	0.663872	
Cla2b	Q77MMW6	-0.21	-0.19	-0.6	-0.56	-0.17	-0.31	-0.09	-0.25	0.14	-0.62	-0.78	-0.22	0.47	-0.57	-0.52	-0.1	0.185	0.02	0.21	0.297491	0.937524	0.466579	1	0.99575	0.888757	
Claipn1	Q8N7Y14	-1.18	-1.16	-1.38	-1.74	-0.91	-0.98	-1.3	1.59	-1.71	-0.81	0.99	-1	-1.43	1.72	0.17	0.16	0.1025	0.455909	0.556468	0.693747	1	0.995511	0.955729	1		
Cla1	QA0AUIR1P	1.19	1.06	1.07	0.81	0.92	0.69	0.46	0.53	0.92	0.61	0.42	0.51	0.86	0.95	0.71	-0.19	-0.3285	-0.4175	-0.45	0.05556	0.535638	0.145754	1	0.995511	0.746406	
Cla1c1	Q8BP22	-0.34	-0.05	0.08	-0.37	-0.25	-0.36	-0.99	-0.63	0.05	0.18	0.32	0.06	-0.24	1.13	-0.66	0.44	-0.01	-0.2625	0.35	0.395	0.287605	0.161621	1	0.995511	0.838265	
Cla1c	Q924A2	-3.24	-3.29	-2.99	-3.03	-4.64	-3.59	-3.36	-3.49	-3.44	-0.95	-2.6	-2.95	-1.78	-2.61	-2.92	-3.84	-0.6075	0.6775	0.373	0.077233	0.206009	0.379664	1	0.995511	0.860984	
Cla1b	PE6B2A	-2.6	-2.2	-2.58	-1.38	-2.16	-1.8	-2.41	-2.29	-2.59	-2.54	-2.71	-1.14	-3.69	-1.4	-3.8	-3.2	-0.2325	0.1675	0.2	0.476903	0.518422	0.107742	1	0.995511	0.927252	
Cla1d1	Q91SW50	3.21	1.08	3.9	-0.23	2.22	3.37	4.98	3.1	-0.23	-0.19	3.78	2.61	-0.28	0.44	4.07	5.27	1.4275	-0.4975	0.385	0.177882	0.690315	0.79382	1	0.995511	0.965367	
Cla1d2	Q92CB5	-0.23	-0.49	0.37	0.17	0.16	-0.2	0.75	0.33	-0.57	0.19	0.02	-0.32	-0.26	0.32	0.78	0.82	0.305	-0.125	0.46	0.292307	0.648516	0.179189	1	0.995511	0.775542	
Cla1d3	Z4YKM2	-0.83	-1.23	-0.65	-1.03	-1.09	-0.53	-1.39	-1.52	-0.73	-0.83	-1.36	-0.97	0.02	-0.72	0.56	0.55	-0.1975	0.3775	0.7625	0.457896	0.42631	0.039734	1	0.995511	0.658454	
Cla1	F93L53	1.08	0.92	0.55	1.06	1.06	0.96	0.87	0.13	0.89	0.73	0.48	0.87	1.02	1.03	0.88	0.17	-0.22	0.16	0.0725	0.516704	0.28139	0.1	1	0.9955729	1	
Cla1	Q3JUVU0	0.42	-0.55	0.22	-1.39	-0.69	-0.42	0.38	0.05	1.27	0.71	0.31	0.01	1.44	2	-0.22	1.15	0.2225	0.226314	0.526383	0.719743	1	0.995511	0.931938	1		
Cla4p5	Q8BMK4	-0.42	-0.73	-0.98	-0.77	-0.47	-0.27	0.46	-0.36	-0.16	-0.43	-0.97	0.1	0.2	-0.01	1.23	0.83	0.8	0.36	1.2875	0.013282	0.207551	0.002769	1	0.995511	0.453261	
Cla4p5	QA0OR4J0K	0.44	0.73	0.48	0.47	0.16	0.51	0.7	0.65	0.56	0.2	0.57	0.53	0.48	0.15	0.58	0.42	0.0825	-0.0015	0.642124	0.805737	0.935293	1	0.995511	0.989767		
Cla1b	Q34447	-0.42	-0.49	-1.16	-0.76	-0.65	-0.56	-0.75	-1.08	-0.52	-1.21	-1.23	-0.68	-0.88	-0.35	-1.46	-1.29	-0.0525	-0.2025	-0.2875	0.813016	0.452449	0.36391	1	0.995511	0.858475	
Cla1b	QA0ADQY7P	-0.78	-0.27	-3.62	-3.09	-0.44	-0.29	-0.99	-1.19	-0.92	-3.14	-0.76	-1.18	-1.4	-3.8	-3.2	-0.2375	0.1675	-0.535	0.799193	0.830007	0.982616	1	0.995511	0.927734		
Cla1b	P30Z75	0.95	0.49	-0.18	0.26	0.15	0.72	-0.11	0.1	0.86	0.33	0.06	0.94	0.46	0.8	-0.18	-0.28	-0.165	0.1675	-0.18	0.578135	0.600593	0.607516	1	0.995511	0.933262	
Cla1b	Q6B871	-8.18	-9.1	-7	-6.95	-6.42	-10.33	-7.89	-9	-11.75	-5.3	-7.76	-7.57	-0.83	-8.5	-8.72	-8.41	-6.0025	-0.2875	-0.6075	0.4991	0.823027	0.2441	1	0.995511	0.799567	
Cla1p1	QA0AS7WF	0.4	0.38	-0.37	0.98	0.61	0.75	0.78	0.17	1.06	0.53	1.31	0.77	1.84	1.5	1.44	0.57	0.23	0.57	0.59	0.466521	0.106382	0.026167	1	0.995511	0.633075	
Cla1p1	E9QXV0	-0.7	-0.57	-0.39	-0.53	-0.79	-0.76	-0.40	-1.1	-0.23	1.1	-1.54	-1.38	-0.79	-1.18	-0.51	-0.2375	0.085	-0.1475	0.216878	0.876322	0.544758	1	0.995511	0.912121		
Cla1p1	QA0AR7WC	0.13	0.25	0.03	0.02	0.22	0.12	-0.15	0.11	0.14	-0.59	0.4	0.35	0.57	-0.25	0.49	0.22	-0.1575	-0.1575	0.025	0.392876	0.562721	0.920029	1	0.995511	0.98688	
Cla1p2	Q0REB5	-8.49	-7.6	-2.65	-2.53	-5.88	-8.22	-4.23	-4.85	-8.12	-2.48	-3.14	-8.15	-5.18	-5.8	-1.19	-4.05	-0.025	-0.155	1.2625	0.803581	0.937276	0.457901	1	0.995511	0.887902	
Cla1p2	Q8BRT15	-1.18	-1.08	0.39	0.28	-0.97	-1.68	-0.21	0.12	-1.89	0.5	0.24	-1.46	-1.85	-1.78	0.16	0.52	-0.2875	-0.255	-0.34	0.595155	0.703981	0.622982	1	0.995511	0.938628	
Cla1p2	Q3REB8	0.74	0.64	0.62	0.49	0.56	0.8	0.53	0.47	0.59	0.77	0.79	1.03	0.64	0.52	0.6	0.55	-0.0025	0.1725	-0.045	0.835012	0.338998	0.791453	1	0.995511	0.969105	
Cla1p2	Q7F0H5	1.34	1.12	0.91	1.11	0.56	0.9	0.31	0.71	1.57	2.06	1.14	1.69	1.41	2.2	0.54	0.13	-0.52	0.475	-0.07	0.022663	0.072871	0.875035	1	0.995511	0.979626	
Cla1p2	Q8C7C7	2.16	0.79	1.05	1.2	-0.6	0.91	0.07	1.77	1.68	2.21	0.63	0.41	2.31	2.34	2	0.04	-0.7625	-0.0675	0.3725	0.186358	0.889617	0.522296	1	0.995511	0.907667	
Cla1p2	Q9J912	0.15	0.53	0.11	0.95	0.87	0.5	1.41	1.04	-0.05	0.79	0.83	0.34	0.36	-0.3	1.59	1.5	0.295	-0.1825	0.1275	0.306351	0.542151	0.78636	1	0.995511	0.967714	
Cla1p2	QA033BP6	-0.16	0.58	0.51	0.21	0.61	0.14	0.92	0.12	-0.68	0.41	-0.12	-0.08	-0.27	0.06	0.05	0.73	0.1625	-0.0405	-0.1425	0.534368	0.187659	0.621197	1	0.995511	0.938628	
Cla1p2	Q8K4W6	0.93	0.68	0.89	0.18	0.33	0.55	0.56	0.57	0.46	0.47	0.39	1	1.6	0.19	0.18	0.0825	-0.2275	-0.0975	0.853440	0.407966	0.13495	1	0.995511	0.927768		
Cla1p2	QA0AG6QZ7	-0.28	0.4	0.56	0.15	0.6	0.02	0.11	0.05	0.02	0.12	0.39	-0.15	0.01	0.65	0.11	-0.18	-0.0075	-0.1675	0.03	0.975262	0.51031	0.908224	1	0.995511	0.986458	
Cla1p2	Q3JRV6	-0.04	0.28	0.42	0.37	0.63	0.04	0.4	0.45	0.11	0.1	0.41	0.09	0	0.51	0.19	0.11	0.1225	-0.08	-0.055	0.53697	0.671938	0.793084	1	0.995511	0.96903	
Cla1p2	Q9VWV04	-1.3	-0.58	-0.89	-1.22	-0.19	-0.93	-0.65	-1.55	-1.86	-2.98	-0.87	-1.14	-1.79	-1.2	-1.53	-1.22	0.1675	-0.715	-0.4375	0.604688	0.152641	0.10773	1	0.995511	0.706141	
Cla1p2	A2J7F6	-0.02	0.21	-0.32	-0.17	0.15	0.19	0.21	0.91	0.16	0.1	0.16	0.14	0.14	0.14	0.14	0.0875	0.238027	0.0875	0.238027	0.0875	0.238027	0.0875	1	0.995511	0.941488	
Cla1p2	F65UM2	0.05	-0.15	-0.7	-0.44	-0.56	0.72	0	-0.63	0.6	-0.46	-0.2	0.31	1.48	-1.05	-0.38	-0.55	0.1925	0.3725	0.185	0.576127	0.231877	0.729981	1	0.995511	0.958635	
Cla1p2	B8S551	0.76	0.42	1.27	1.08	1.08	0.8	1.36	-0.08	0.96	0.8	1.07	0.22	0.43	1.21	0.49	0.57	-0.0925	-0.12	-0.2075	0.791473	0.667995	0.466077	1	0.995511	0.888548	
Cla1p2	Q92056-6	0.89	1.35	1.09	0.67	0.92	1.17	0.97	0.89	0.81	1.22	1.08	1.09	1.13	0.37	0.65	0.2	0.0125	0.05	-1.18	0.1	0.946817	0.81276	0.156348	1	0.995511	0.751493
Cla1p1	Q60771	0.18	-0.51	0.20	-0.42	-0.78	-0.65	-0.40	-1.47	-2.81	-1.2	-1.51	-1.34	-0.57	-1.14	-0.8	-0.13	-0.2875	-0.1675	-0.6575	0.846984	0.122933	0.81276	1	0.995511	0.941488	
Cla1p2	Q8ET43	-1.91	-1.21	-3.34	-3.04	-1.22	-1.45	-2.87	-2.92	-1.84	-1.43	-2.77	-1.86	-2.51	-0.73	-3.57	-3.54	0.26	0.4	-0.2125	0.672223	0.456463	0.77402	1	0.995511	0.967289	
Cla1p2	Q920G9-2	4.55	-0.89	-1.61	-2.27	-1.47	-1.38	-2.46	-3.25	3.72	4.37	-2.87	8.52	3.5	-4.66	-0.96	-3.99	-1.3675	3.4725	-3.24	0.420299	0.190765	0.062722	1	0.995511	0.66433	
Cla1p2	Q54942	-2.39	-2.13	-0.32	-1.86	-3.44	-0.88	-4.1	-2.69	0.97	-0.64	-1.05	-2.13	2.08	-3.46	-1.55	-1.8	-1.1025	0.9625	0.4925	0.169715	0.204449	0.661899	1	0.995511	0.949645	
Cla1p2	Q9CDX5	0.77	0.81	1.43	0.88	1.03	1.1	2.33	1.1	0.04	1.21	1.69	1.07	-1.24	0.81	1.6	1.75	0.4175	-0.19	-0.2425	0.237856	0.613088	0.707075	1	0.995511	0.957157	
Cla1p2	Z4YLG1	-0.15	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.2675	0.601481	-0.2675	0.601481	0.645212	0.465442	1	0.995511	0.958741	
Cla1p2	P0C7M9	-0.38	-0.3	-0.17	0.07	-0.24	-0.11	-0.16	-0.3	-0.04	-0.02	-0.05	-0.22	-0.15	0.07	-0.36	-0.85	-0.0075	-0.1125	-0.1275	0.963639	0.515065	0.158381	1	0.995511	0.936991	
Cla1p2	PS1294	-0.16	0.15	-0.58	-1.14	-0.39	-0.23	-0.41	-2.01	-0.49	-0.32	-0.6	1.12	-0.01	0.56	-0.2	-0.27	-0.3275	0.065	0.4525	0.489353	0.203888	0.203253	1	0.995511	0.728217	
Cla1p2	Q92105	-0.28	-1.38	-1.34	-1.04	-1.05	-0.77	-1.78	-1.52	-0.46	-0.62	-1.46	-0.68	-1.02	-0.88	-2.01	-1.85	-0.27	0.205	-0.18	0.424763	0.552556	0.503038	1	0.995511	0.853281	
Cla1p2	Q9YV11	0.91	0.73	0.57	0.55	1.18	1.16	0.78	0.95	0.47	0.73	1	1.39	1.54	0.56	1.05	0.73	0.0325	0.845151	0.325418	0.162106	0.06125	0.91	1	0.995511	0.965454	
Cla1p2	QA0A668K1	-0.42	0.06	-0.56	-0.02	0.44	-0.24	0.14	-0.2	-0.17	-2.58	-0.01	-0.18	-1.21	-1.46												

Col18a1	E90PX1	-2.96	-2.98	-3.56	-3.51	-2.66	-3.07	-3.69	-4.09	-2.74	-2.77	-3.15	-2.36	-2.52	-3.31	-3.42	-3.69	-0.125	0.4975	0.0175	0.717821	0.075334	0.954884	1	0.995511	0.992482	
Col19a1	F8WVW4	-1.28	-0.74	-0.58	-1.01	-1.48	-1.01	-0.77	-1.56	-1.08	-0.77	-1.41	-0.48	-1.18	-2.38	0.31	-1.79	-1.3	-0.3025	0.4	-0.3875	0.254068	0.871874	0.488442	1	0.995511	0.897531
Col1a1	P11087	-2.47	-7.24	-7.02	-7.74	-6.5	-6.67	-7.49	-7.38	-2.11	-7.08	-6.24	-6.15	-6.45	-6.53	-7.84	-7.4	0.1125	0.7025	0.5675	0.743704	0.062868	0.913947	1	0.995511	0.883205	
Col25a1	Q01149	-1.07	-1.66	-1.09	-1.69	-2.11	-0.55	-2.75	-1.69	-2.62	-4.16	-1.01	-0.99	-1.74	-4.49	-1.13	-1.15	-0.3975	-0.8175	-0.75	0.396873	0.265986	0.325523	1	0.995511	0.843035	
Col25a1	V9GWA5	-3.12	-2.99	-1.83	-1.83	-3.81	-2.36	-2.27	-1.66	1.1	-1.18	-1.68	-3.03	-2.09	-2.33	-0.22	-2.1	-0.0825	1.2925	0.1205	0.876358	0.16569	0.900892	1	0.995511	0.693316	
Col31a1	P08211	-3.09	-4.62	-9.1	-18.01	-4.86	-2.44	-14.92	-1.91	0.23	-7.78	-10.95	-3.49	1.21	-5.32	-10.92	-12.35	0.1725	2.209	1.8525	0.965321	0.395337	0.464737	1	0.995511	0.945344	
Col4a1	P03453	-0.15	-0.95	-0.47	-0.75	-0.8	-0.67	-0.62	-0.45	-0.89	-0.8	-0.4	-0.77	-0.22	-0.96	-0.57	-0.61	0.045	0.33	0.0875	0.799488	0.430376	0.704812	1	0.995511	0.957504	
Col4a2	P08122	-1.29	-1.39	-1.67	-2.05	-1.19	-0.83	-1.47	-1.94	-1	-1.37	-1.52	-1.11	-0.66	-1.45	-1.1	-1.2	0.2425	0.35	0.4975	0.412558	0.16459	0.086718	1	0.995511	0.691619	
Col4a5	G63ZW6	2.17	2.13	0.02	-1.93	1.52	2.21	1.34	1.72	1.15	-0.85	2.62	2.29	0.88	1.27	1.99	2.98	1	0.705	1.1825	0.241126	0.535625	0.243125	1	0.995511	0.798789	
Col6a1	Q04857	-3.3	-3.03	-3.21	-3.67	-2.83	-3.41	-3.5	-3.97	-3.44	-2.26	-3.28	-3.25	-3.24	-3.28	-3.36	-3.45	-0.125	0.245	-0.01	0.650667	0.413207	0.888303	1	0.995511	0.979767	
Col6a2	Q02788	-1.77	-2.99	-3.73	-3.53	-3.47	-2.78	-3.22	-2.59	-2.7	-3.44	-2.37	-2.7	-3.15	-2.7	-3.15	-3.45	-0.125	0.245	-0.01	0.650667	0.413207	0.888303	1	0.995511	0.979767	
Col6a3	J30C16	-2.32	-3.48	-3.4	-3.19	-2.97	-3.33	-3.07	-3.36	-3.37	-3.13	-2.78	-2.7	-2.14	-2.66	-3.34	-2.99	0.0725	0.26	0.2225	0.705073	0.127388	0.347433	1	0.995511	0.851503	
Col6a2	A15C42J8C	-0.25	-0.25	0.28	-0.22	-0.3	0.17	0.28	-0.49	-0.39	-0.1	-0.78	-0.04	-0.29	-0.18	-0.41	0.34	0.015	-0.2275	-0.035	0.950055	0.354633	0.888218	1	0.995511	0.979767	
Col6a1	H8K297	-0.71	-0.67	-0.02	-0.32	0.01	-1.05	0.71	-0.21	-0.32	-0.24	-0.03	-0.75	0.95	0.12	0.45	0.86	0.305	0.105	1.035	0.430584	0.675479	0.004568	1	0.995511	0.550241	
Commnd1	Q8V86	-0.89	0.18	1.42	1.88	-0.49	-1.1	1.04	1.89	-1.05	1.84	1.57	-0.7	-1.07	-0.35	1.66	1.33	-0.4	-0.225	-0.01	0.680108	0.791382	0.967269	1	0.995511	0.5927	
Commnd10	Q8V72	-0.8	-0.11	-0.8	-0.57	-0.11	-0.8	-0.17	-0.67	-0.3	-0.65	-0.4	-0.77	-1.17	-1.17	-0.97	0.13	0.16	-0.105	0.914957	0.50017	0.7232	1	0.995511	0.965933		
Commnd4	H88XK6	-1.34	-1.22	-1.6	-1.65	-0.5	-1.77	-0.98	-1.57	-1.27	-1.83	-1.7	-1.34	-1.51	-0.09	-1.81	-1.49	0.2475	-0.0285	0.2275	0.423813	0.698753	0.560561	1	0.995511	0.919045	
Commnd4	G63ZD9	-0.48	-0.3	-0.01	-0.4	-0.2	-0.55	-0.4	-0.02	-0.36	-0.39	-0.08	-0.18	-0.51	0.26	-0.44	0.03	0.005	0.175	0.0675	0.797068	0.443846	0.784795	1	0.995511	0.967642	
Commnd4	Q9C02D	-2.63	-2.27	-1.73	-3.52	-1.94	-1.83	-2.22	-3.26	-2.5	-3.23	-2.41	-2.75	-2.61	-1.93	-3.42	-2.71	0.225	-0.185	-0.13	0.62876	0.645772	0.76211	1	0.995511	0.966842	
Commnd5	A0A9A0U	-0.61	-0.46	-0.64	-0.81	-0.13	-0.61	-0.52	-0.64	-1.81	-1.06	-0.79	-0.57	-0.72	-0.51	-0.91	-0.92	0.155	-0.1775	-0.1325	0.404094	0.350117	0.501587	1	0.995511	0.901002	
Commnd6	Q3V485	-0.45	-0.23	-0.26	0.01	-0.1	-0.46	-0.21	-0.08	-0.15	-0.09	-0.29	-0.27	-0.6	0.45	-0.66	0.01	0.02	0.0325	0.0325	0.906561	0.853689	0.912323	1	0.995511	0.986458	
Commnd7	H88G94	-0.3	-0.27	-0.28	-0.04	0.27	-0.35	-0.73	-0.3	-0.07	0.57	-0.53	-0.62	-0.09	1	-0.55	-0.75	-0.055	0.06	0.125	0.813717	0.835281	0.745695	1	0.995511	0.960606	
Commnd8	Q9CZG3	-1.13	-0.58	-0.46	-0.12	-0.14	-1.19	-0.23	-0.21	-0.89	-0.23	-0.05	-0.97	-0.82	-0.1	-0.49	-0.41	0.13	0.0375	0.1175	0.688135	0.904972	0.673966	1	0.995511	0.952944	
Commnd9	Q8K2D0	0.46	0.05	-0.53	-0.52	-0.09	-0.17	-0.41	-0.33	-2.13	-2.25	-0.37	-0.75	-1.98	-2.56	-0.57	-0.48	-0.07	-0.865	-1.262	0.795727	0.233797	0.038424	1	0.995511	0.658454	
Comm	H88S87	-0.42	-1.29	-0.36	-0.33	-0.66	-1.47	0.71	0.14	-0.04	-2.32	-0.08	-1.46	-1.73	-1.03	0.05	-0.07	0.53	-0.625	-0.155	0.317752	0.261294	0.747595	1	0.995511	0.960744	
Comm1a	H88IG7	-0.48	-0.59	-0.21	-0.04	-0.6	-0.4	-0.73	-0.16	0.64	0.09	-0.05	-0.4	-0.6	-0.18	-0.07	-0.38	-0.1425	0.4	0.3225	0.495857	0.159437	0.253172	1	0.995511	0.809524	
Comm1a	F8WVW2	-1.66	-2.16	-2.11	-2.4	-1.7	-1.8	-1.86	-2.55	-1.68	-0.96	-2.18	-1.28	-1.36	-1.56	-2.02	0.105	0.5575	0.335	0.845457	0.098676	0.718616	1	0.995511	0.787447		
Comp1	Q9H97	-0.98	-0.81	-1.25	-1.32	-0.76	-0.81	-1.23	-1.88	-0.56	-1	-1.1	-0.5	-0.32	-0.25	-1.21	-1.1	0.045	0.3	0.37	0.845471	0.2084	0.29501	1	0.995511	0.787447	
Comp2	Q55029	-2.38	-2.42	-1.48	-2.26	-1.89	-2.37	-1.44	-2.05	-2.1	-1.75	-1.96	-2.18	-1.84	-1.44	-1.64	-1.25	-0.145	0.455	0.438219	0.650424	0.89574	1	0.995511	0.787447		
Comp	H89079	-2.71	-3.02	-1.82	-2.27	-2.04	-2.95	-0.98	-1.92	-3.13	-1.41	-1.89	-2.32	-3.14	-2.05	-2.14	-1.49	0.4825	0.2675	0.25	0.297655	0.43628	0.54967	1	0.995511	0.913178	
Comp1	Q9ZQZ5	-1.8	-2.04	-2.56	-2.71	-1.7	-1.89	-2.62	-3.06	-1.9	-2.04	-2.65	-1.56	-1.8	-1.37	-2.72	-2.87	-0.04	0.24	0.0875	0.912788	0.453177	0.828731	1	0.995511	0.973757	
Comp2	Q9XQX3	-0.05	-0.85	-0.76	-1.16	-0.3	-0.27	-0.64	-0.76	-1.25	-0.79	-0.79	-0.05	-0.97	-1.22	-0.87	-0.6	0.2125	-0.015	-0.21	0.440181	0.964306	0.649215	1	0.995511	0.890107	
Comp1	Q9C11	-0.28	-0.11	-0.8	-0.86	-0.82	-0.8	-0.8	-0.82	-0.67	-1.3	0.65	-0.6	-0.77	-1.17	-1.12	-1.11	0.29	0.16	0.23	0.664301	0.508093	0.769888	1	0.995511	0.969888	
Comp2	P61202-2	0.99	0.82	1.19	0.9	0.93	1.09	1.41	1.53	-0.48	0.39	1.17	0.98	-0.87	-1.17	0.7	0.97	0.265	-0.46	-0.8175	0.198773	0.232451	0.072914	1	0.995511	0.668066	
Comp3	H88S43	-0.54	-0.71	-0.31	-0.43	-0.78	-0.94	-0.53	-0.22	-0.72	-0.18	-0.46	-0.55	-0.74	-0.95	-0.68	-0.31	0.005	0.02	-0.1725	0.788448	0.918122	0.428168	1	0.995511	0.879165	
Comp4	H88S44	-0.04	-0.06	-0.15	-0.01	-0.1	-0.17	-0.25	-0.03	-0.48	-0.02	-0.09	-0.05	-0.78	-0.29	-0.31	-0.36	-0.0575	-0.095	-0.37	0.696979	0.598818	0.082738	1	0.995511	0.888885	
Comp5	G15664	-0.52	-0.3	-0.94	-0.6	-0.34	-0.4	-0.52	-0.46	-0.37	-1.53	-0.63	-0.7	-0.76	-1.24	-1.05	-0.35	0.5364	0.03	0.5364	0.58084	0.740478	1	0.995511	0.969888		
Comp6	H88S45	-0.77	-0.7	-0.47	-0.03	-0.85	-0.6	-0.11	-0.03	-1.07	-0.74	-0.45	-0.73	-1.38	-0.87	-0.88	-0.59	0.095	-0.255	-0.4375	0.720919	0.300385	0.12324	1	0.995511	0.721448	
Comp7a	Q9ZD4-2	0.47	0.6	0.32	0.29	0.26	-0.01	-0.31	0.22	0.21	0.91	0.04	0.2	-0.12	-0.23	-0.03	-0.43	-0.38	-0.08	-0.5075	0.707668	0.753396	0.037327	1	0.995511	0.585854	
Comp7b	H88V13	-0.05	-0.27	-0.05	-0.21	-0.59	0	0.44	0	0.3	0.29	-0.07	0.31	0.12	-0.59	-0.37	-0.58	-0.1375	0.3275	-0.235	0.498958	0.099892	0.317083	1	0.995511	0.838864	
Comp8	H88V87	-0.48	-0.07	-0.7	-0.23	-0.38	-0.27	-0.48	-0.15	-0.25	-0.31	-0.32	-0.65	-0.34	-1.04	-1.2	0.0225	0.105	0.225	0.905077	0.598332	0.579362	1	0.995511	0.927734		
Comp9	Q3U888	-0.22	-0.05	-0.93	-0.25	-0.21	-0.89	-0.19	-0.44	-0.39	-0.22	-0.89	-0.22	-0.89	-0.22	-0.89	-1.2	-0.89	-1.1025	0.495911	0.647397	0.746823	1	0.995511	0.968623		
Comp1	P61924	-0.72	-1	-0.21	-0.84	-0.28	-0.91	-0.27	-0.48	-1.3	-1.85	-0.19	-0.17	-3.33	-3.38	-1.09	0.31	0.2075	-0.71	-1.16	0.401466	0.596333	0.710618	1	0.995511	0.762322	
Comp2	Q9H299	-1.84	-1.33	-1.87	-2.23	-1.74	-2.79	-2.17	-2.66	-1.69	-1.11	-2.36	-1.98	-1.76	-1.17	-2.77	-2.16	-0.5225	0.0325	-0.1475	0.110343	0.91515	0.695348	1	0.995511	0.955729	
Col10a	A15UHPH1	-0.14	0.2	-0.04	0.05	0.26	-0.19	0.32	0.01	0.23	0.53	0.14	-0.32	0.59	0.55	0.03	-0.05	0.0825	0.1275	0.2625	0.651928	0.574315	0.26919	1	0.995511	0.820534	
Col2	F7C9V2	-0.25	-0.55	-0.18	-0.18	-0.59	-0.34	-0.17	-0.56	-0.34	-0.17	-0.56	-0.34	-0.17	-0.56	-0.34	-0.17	-0.56	-0.34	0.4825	0.564389	0.546022	0.577478	1	0.995511	0.816787	
Col3	H88M54	1.51	1.36	-0.04	0.47	0.5	1.11	0.63	0.07	0.69	-0.91	-0.12	0.4	0.82	0.55	-0.11	-0.61	-0.2475	-0.81	-0.6625	0.54225	0					

Cry1l	C09P9P3	-1.77	-2.04	-0.73	-1	-1.96	-1.88	-0.72	-0.85	-2.59	-1.01	-0.84	-1.9	-2.43	-1.94	-1.13	-1.08	0.0325	-0.2	-0.26	0.93879	0.67769	0.549116	1	0.96511	0.912757		
Crym	C054083	-0.75	-0.85	-0.95	-0.78	-0.62	-0.99	-0.65	-0.65	-0.54	-1.01	-0.68	-0.95	-0.02	-0.43	-1.17	-1.05	0.1425	0.119	0.518006	0.445392	0.506672	1	0.96511	0.902814			
Cryr	C171199	-0.27	-0.33	-0.61	-0.48	-0.17	-0.58	-0.09	-0.56	-0.55	-1.04	-0.56	-0.54	-0.71	-0.17	-0.53	-0.8	0.0725	-0.3475	-0.13	0.701851	0.111185	0.54708	1	0.96511	0.912571		
Cryz	C0219W4	0.32	0.26	0.21	0.34	-0.08	0.04	0.12	0.28	-0.22	-0.35	0.15	0.14	-0.48	-0.52	0.06	0.05	-0.1925	-0.325	-0.505	0.228601	0.081334	0.041855	1	0.96511	0.956854		
Cryz2	C031UN28	0.49	0.16	0.32	0.44	0.23	0.39	1.36	0.41	0.05	-0.03	0.6	0	0.4	-0.01	0.63	1.24	0.245	-0.1975	0.2125	0.380036	0.586693	0.468328	1	0.96511	0.889423		
Cud	C09ZU6	1.1	0.54	0.15	0.57	0.29	0.91	0.26	0.47	0.81	0.07	0.44	0.91	0.54	0.49	-0.37	-0.1	-0.1075	-0.0325	-0.45	0.676022	0.508861	0.108159	1	0.96511	0.759448		
Cud2	C09B001	-0.13	-0.18	0.01	0.1	-0.13	0.13	-0.77	0.37	0.2	0.32	0.07	0.17	-0.32	-0.12	-0.14	0.21	-0.1375	-0.1075	0.165	0.609596	0.539354	0.406328	1	0.96511	0.874811		
Cud2c	C01Y103	-0.37	-0.34	1.16	1.8	-0.54	-0.37	0.73	1.42	0.3	2.05	1.27	-0.17	-0.33	-0.09	1.41	1.1	-0.2525	0.15	-0.04	0.699258	0.834279	0.949664	1	0.96511	0.992476		
Cud2c1	C01Y150	-0.93	-1.59	-1.34	-1.61	-1.44	-1.13	-1.43	-1.47	-1.19	-0.5	-1.4	-0.93	-0.96	-0.8	-1.39	-1.67	3.14E-16	0.3625	0.1625	-1	0.19787	0.560115	1	0.96511	0.918806		
Ce1l	C08R6K4	0.01	-0.45	-0.29	0.4	-0.38	-0.15	-0.45	-0.57	-0.55	-0.25	-0.56	0.11	-0.92	-0.65	-0.37	-0.58	-0.105	-0.02	-0.3475	0.564601	0.930048	0.126426	1	0.96511	0.721505		
Ce1l1	P05S817	-2.11	-2.79	-2.11	-2.63	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-2.17	-0.1375	0.418706	0.120872	0.771448	1	0.96511	0.965933		
Ce4	P41241	-0.41	-0.74	-0.74	-1.14	-0.08	-0.07	-0.25	-0.65	-0.63	-1.82	-0.75	0	-0.67	-0.43	-0.76	0.83	0.205	-0.115	0.321972	0.576795	0.689531	0.955729	1	0.96511	0.955729		
Ce1l	C08Q668	1.38	1.72	3.05	2.75	0.74	1.03	0.93	2.71	1.14	1.23	1.83	1.27	1.16	-0.26	2.23	2.91	-0.8725	-0.8575	-0.715	0.143557	0.062261	0.336857	1	0.96511	0.847578		
Cum1d	C09Z3L3	0.11	0.65	0.61	0.14	0.55	0.72	0.58	0.25	0.63	0.96	0.34	0.1	-0.29	0.16	0.56	0.12	0.1675	-0.1675	0.583532	0.496825	0.530205	0.930205	1	0.96511	0.908663		
Cum1d2	V90X34	0.82	0.47	0.64	0.47	0.92	1.15	0.61	0.52	0.5	0.09	0.56	0.72	0.72	0.16	-0.1	0.6	0.2	-0.1325	-0.0175	0.331858	0.522141	0.252539	1	0.96511	0.988527		
Cum1d2	EP9W10	-2.18	-1.18	-2.65	-1.74	-1.47	-1.64	-1.29	-1.77	-1.17	-1.09	-0.69	-1.14	-0.69	-0.14	-0.3	0.8	0.59	0.02	-0.09	0.2	0.15	0.428621	0.469889	0.664349	1	0.96511	0.940825
Cum1d1	E094Q67	2.18	0.4	-0.17	0.75	0.68	1.83	-1.6	1.4	2.06	-2.13	-0.42	1.94	1.82	-1.75	-0.08	-0.79	-0.9125	-0.475	-0.99	0.311264	0.673837	0.245049	0.920511	1	0.96511	0.801068	
Cum1d1	C08R63-2	-0.14	-0.2	-0.18	-0.17	-0.23	-0.04	0.2	0.02	-0.32	-0.38	-0.08	-0.1	-0.72	0.03	-0.47	-0.1	0.275	-0.0745	-0.1425	0.088616	0.772679	0.255522	1	0.96511	0.979707		
Cum1d1	C09C2B-2	-1.1	-0.6	0.76	-0.36	-1.22	-1.01	-0.31	-0.01	0.56	0.72	0.02	0.06	1.11	0.57	0.39	-0.18	-0.3125	0.665	0.7975	0.495573	0.132382	0.103107	1	0.96511	0.700625		
Cum1d1	C09C2B	-0.77	0.24	0.31	0.26	0.14	0.76	0.85	0.27	0.44	0.06	0.43	0.71	0.3	0.11	0.18	0.47	0.135	0.0425	-0.16	0.532075	0.840571	0.461737	1	0.96511	0.888263		
Cum1k	C09M2K	-0.31	-0.11	-0.55	-0.63	-0.36	-0.64	-0.62	0.52	-0.84	-0.34	-0.08	0.73	-0.27	-0.98	-1.26	-0.1825	0.195	-0.065	0.312291	0.529321	0.888001	0.91	1	0.96511	0.979767		
Cum1g1	A0A0U1RP	1.57	1.45	0.88	0.34	1.41	1.57	0.13	0.61	0.73	0.76	0.66	2.07	0.5	0.1	1.14	0.12	-0.13	-0.005	-0.595	0.754614	0.990477	0.131466	1	0.96511	0.726398		
Cum1g2	C09P7R8	0.43	1.08	0.68	0.58	1.19	1.1	0.5	-0.09	1.08	0.55	0.33	0.54	1.37	1.39	0.52	0.25	-0.0175	-0.0675	0.29	0.958464	0.778482	0.447288	1	0.96511	0.884817		
Cum1g3	C08C402	0.12	0.62	1.15	1.82	0.61	0.16	1.23	1.95	-0.07	1.69	1.37	0.56	-0.64	0.14	0.77	0.64	0.06	-0.14	-0.7	0.802884	0.790397	0.151648	1	0.96511	0.750178		
Cum1g3	C060737	0.98	1.08	0.92	1.04	1.4	0.87	1.11	1.12	0.59	0.91	1.04	1.07	0.39	0.99	0.85	1.02	0.12	-0.1025	-0.1925	0.482293	0.574218	0.368836	1	0.96511	0.855245		
Cum2a2	C054833	1.48	1.75	1.89	1.64	1.9	1.56	1.67	1.9	0.61	0.88	1.93	1.42	0.22	0.53	1.6	1.67	0.0675	-0.48	-0.685	0.696601	0.146911	0.092607	1	0.96511	0.695968		
Cum2a2	P67871	0.48	0.13	0.29	0.48	0.19	0.98	0.63	0.36	-0.36	0.31	0.5	0.65	-0.35	-0.46	0.41	0.69	0.195	-0.07	-0.2725	0.380023	0.786639	0.384068	1	0.96511	0.806984		
Cum2a2	C08YH10	0.74	1.05	0.25	0.6	1.08	0.83	0.54	0.5	0.94	0.34	0.61	1.19	0.43	1.19	0.31	0.49	0.0775	0.11	-0.055	0.739796	0.688086	0.844004	1	0.96511	0.979225		
Cum2a2	C071M1D-2	-2.18	-1.18	-2.65	-1.74	-1.47	-1.64	-1.29	-1.77	-1.17	-1.09	-0.69	-1.14	-0.69	-0.14	-0.3	0.8	0.59	0.02	-0.09	0.2	0.15	0.428621	0.469889	0.664349	1	0.96511	0.940825
Cum2a2	C01Y1M36	-0.7	0.01	0.36	0.63	-0.22	-0.75	0.75	0.43	-0.39	0.52	0.77	0.36	0.43	0.12	0.41	0.26	-0.225	0.24	0.01	0.956691	0.520952	0.946402	1	0.96511	0.959722		
Cup1	D32378	-1.99	-2.15	0.53	-0.12	-1.28	-1.32	0.6	-0.67	-2.13	0.32	-0.24	-2.17	-2.46	-1.7	1.09	0.51	0.265	-0.1225	0.2925	0.717258	0.883795	0.763902	1	0.96511	0.961434		
Cup1	P97315	-0.68	-1.03	-0.62	-0.62	-0.99	-0.57	-0.95	-0.95	-1.83	-0.49	-0.77	-1.06	-1.3	-1.7	-0.72	-0.61	-0.1275	-0.2825	-0.345	0.491614	0.387079	0.254066	1	0.96511	0.809524		
Cup1	P973147	-2.38	-2.55	0.07	0.1	-0.13	0.13	-0.77	0.37	0.2	0.32	0.07	0.17	-0.32	-0.12	-0.14	0.21	-0.1375	-0.1075	0.165	0.609596	0.539354	0.406328	1	0.96511	0.874811		
Cup1	P21460	-0.05	-1.23	-1.34	-1.46	-1.04	-0.42	-0.56	-1.14	-0.11	-2.03	-1.19	-0.38	-0.69	0	-1.33	-1.35	0.23	0.2825	0.1775	0.523478	0.629002	0.684175	1	0.96511	0.955729		
Cup1b	C62426	-0.76	-0.73	-0.42	-1.01	-0.71	-1.27	1.35	-1	-0.77	-0.54	-0.34	-1.03	-0.94	-0.48	-0.57	0.35	0.3225	0.06	0.32	0.56679	0.790775	0.314261	0.96511	0.836924			
Cup1f	C09L1C2	-1.28	-2.47	-1.82	-2.27	-1.79	-2.27	-1.5	-2.05	-3.01	-1.86	-1.79	-2.3	-1.95	-1.73	-1.79	-2.31	0.0575	-0.28	0.015	0.851864	0.486015	0.980831	1	0.96511	0.93927		
Cup1f	C08Q2C-2	-0.77	0.18	0.59	0.62	-0.62	-0.36	-0.31	-1.58	-0.53	-0.99	-0.55	-0.36	-0.18	0.47	0.135	0.0425	-0.16	0.532075	-0.16	0.532075	0.840571	0.461737	1	0.96511	0.762148		
Cup1f	C62K7C	0.55	1.44	0.07	-0.8	-0.01	-0.61	-1.41	0.84	1.49	2.61	0.01	-1.29	0.01	1.05	0.76	-1.04	-0.1235	0.39	-0.12	0.38127	0.657881	0.646745	1	0.96511	0.976225		
Cup1f2	C08C7E9	-1.34	-1.32	-1.69	-1.46	-1.59	-1.53	-1.48	-1.83	-0.59	-0.73	-1.91	-1.75	0.09	-1.19	-0.63	-1.64	-0.155	0.2075	0.61	0.370666	0.551707	0.129946	1	0.96511	0.723659		
Cup1f	C09J1U7	-1.65	-2.67	-2.2	-2.13	-1.81	-2.31	-1.92	-2.1	-2.8	-1.36	-1.94	-2.65	-2.13	-2.32	-1.63	-2.03	0.1275	-0.205	0.135	0.61026	0.947422	0.627453	1	0.96511	0.939823		
Cup1p1	C08H8E8	0.02	-0.39	0.25	0.14	0.35	-0.31	0.67	-0.03	-0.54	-0.57	0.41	0.2	-0.52	0.44	0.15	0.38	0.165	0.105	0.1575	0.538301	0.597193	0.979652	1	0.96511	0.930093		
Cup1p1	C08L17	0.02	-0.33	-0.2	0.02	0.5	-0.61	0.37	-0.03	-0.38	0.44	0.28	-0.18	0.33	-0.27	0.18	0.28	-0.18	-0.2	-0.4025	0.438962	0.714068	0.179291	1	0.96511	0.861111		
Cup1p1	C09Y1Z2	0.02	-0.2	-0.03	0.13	-0.51	-0.28	-0.11	-0.31	-0.34	-0.29	0.02	-0.53	0.13	-0.57	0.26	-0.04	-0.3	-0.265	-0.035	0.088266	0.187502	0.882036	1	0.96511	0.979767		
Cup1s	C08R42	0.51	0.71	-0.2	-0.65	0.07	0.68	0.27	-0.22	-1.53	0.94	-0.12	-0.28	-0.45	-0.9	-0.57	0.1075	-0.2	-0.745	0.761106	0.722575	0.061718	0.96511	0.664936				
Cub1	C05S0P-2	-4.09	-4.32	-1.67	-2.14	-3.09	-4.35	-2.3	-2.17	-2.94	-1.62	-1.96	-3.57	-2.49	-3.61	-1.57	-1.87	0.0775	0.5325	0.685	0.919474	0.403733	0.361952	1	0.96511	0.858475		
Cub1	C62164	-1.74	-1.58	-1.34	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-0.7	0.245272	0.298865	0.128731	1	0.96511	0.834705		
Cudn1p1	C03P192	0.71	1.56	1.62	0.09	1.18	0.79	0.38	1.24	0.33	-0.31	0.54	0.67	0.7</														

Dnb2ip	G3UH7C	0.89	0.71	0.46	0.59	0.92	0.6	0.57	0.21	1.04	0.36	0.52	0.87	0.98	1.39	0.3	0.2	-0.0875	0.035	0.055	0.667984	0.872903	0.858281	1	0.956511	0.976225	
Dnc1	Q7TN08	-1.82	-0.71	0.14	0.54	-0.15	-0.2	-0.54	-0.63	1.01	1.42	0.29	-0.89	2.81	0.16	0.27	-1.38	0.1825	0.92	1.3775	0.712311	0.189358	0.179299	1	0.956511	0.775542	
Dnc3	Q9PHV7	0.09	0.37	0.98	0.94	0.4	0.47	0.33	0.97	1.41	1.86	1.25	0.35	0.42	0.24	1.18	0.68	-0.0575	0.8075	0.72	0.869101	0.08999	0.19999	1	0.956511	0.78004	
Dnc4	P61804	-1.58	-1.32	-1.56	-1.34	-0.48	-1.12	-0.46	-1.19	-0.82	-1.17	-1.37	-1.18	-0.45	-0.07	-0.81	-0.74	5.38E-01	0.315	0.9325	0.085674	0.274709	0.002714	1	0.956511	0.453261	
Dnc1	Q62165	0.93	1.06	0.84	1.12	1.12	0.99	0.84	0.91	0.84	1.14	1.11	1.12	0.67	1.42	0.8	0.67	-0.0225	0.14	-0.0975	0.074692	0.474709	0.076918	1	0.956511	0.953397	
Dnla	Q6WQ11	0.45	1.56	1.8	1.52	1.51	1.11	1.23	1.13	0.44	0.82	1.32	1.23	0.33	0.78	0.7	0.98	-0.3375	-0.6	-0.885	0.075692	0.027437	0.001247	1	0.956511	0.427013	
Dnla	Q1WQ3	0.18	0.35	0.2	0.14	0.19	0.35	0.35	0.5	0.05	-0.21	-0.19	-1.03	-0.82	-0.26	0.3	0.09	-0.485	0.365	0.788211	0.031818	0.05448	0.855029	1	0.956511	0.85029	
Dnla3	Q6FJN8	-0.88	-0.6	0.18	-0.66	0.4	-0.75	-0.24	-0.78	-0.67	-0.11	-0.63	-0.94	-1	-0.24	-0.77	-0.55	-0.5525	-0.0975	-0.03	0.846916	0.742584	0.931209	1	0.956511	0.989713	
Dnlp	AD0M87WF	0.85	1.07	6.18	0.96	2.09	10.84	8.75	-0.77	3.65	1.4	7.15	10.93	3.96	0.98	8.95	9.65	0.8475	1.0175	1.12	0.780863	0.716929	0.688121	1	0.956511	0.955729	
Dnlp3	G3X9M0	0.4	-0.32	0.15	0.27	-0.56	-0.39	0.01	0.26	-0.27	-0.06	-0.03	-0.74	-0.43	-0.01	0.16	-0.12	-0.095	-0.17	-0.025	0.715811	0.523258	0.918548	1	0.956511	0.986868	
Dnlp3	Q6WQ17-2	0.04	0.32	0.37	0.98	0.94	0.4	0.47	0.33	0.97	1.41	1.86	1.25	0.35	0.42	0.24	1.18	0.68	-0.0575	0.8075	0.72	0.869101	0.08999	0.19999	1	0.956511	0.781674
Dnlp3	Q54784	-0.82	-0.88	-1.07	-0.97	-0.45	-1.2	-1.53	-1.51	-0.89	-0.84	-0.79	-0.65	-0.93	-1.51	-0.2375	-0.2775	0.035	0.382324	0.33066	0.882588	0.79	0.002714	1	0.956511	0.975977	
Dnrs1	Q92282	-0.33	-1.45	-1.38	-1.35	-0.92	-0.77	-0.64	-1.15	-1.38	-0.97	-1.19	-0.34	-1.41	-0.98	-1.15	-1.21	0.3825	0.1575	-0.06	0.251764	0.648818	0.839222	1	0.956511	0.976218	
Dnrs2	Q8B1P0	0.88	1.26	0.71	0.61	0.31	0.81	0.69	0.68	-0.01	-0.95	0.96	0.4	-0.29	-0.66	-0.15	-0.03	-0.2425	-0.765	-1.1325	0.263068	0.087975	0.001204	1	0.956511	0.412464	
Dnrx	Q5613	1.18	1.08	1.08	1.07	0.32	0.29	1	1.06	0.42	1.51	1.33	1.02	0.76	-0.12	1.53	1.02	-0.45	-0.0325	0.305	0.086626	0.900428	0.387659	1	0.956511	0.864251	
Dnrsq1	Q3UG85	-1.82	-0.46	-3.39	-3.11	-1.38	-3.81	-2.11	-3.34	-1.89	-2.13	-3.46	-1.08	-3.96	-4.48	-2.38	3.53	0.185	0.6625	0.2575	0.491921	0.236253	0.510995	1	0.956511	0.90029	
Dnrs1	Q64237	0.51	1.06	0.73	0.76	0.67	0.17	0.74	0.6	0.74	0.68	0.7	0.81	0.5	1.18	0.8	0.57	-0.22	-0.0325	-0.0025	0.294279	0.857852	0.991435	1	0.956511	0.996154	
Dnrs1	P31786	-0.49	-0.3	-0.48	0	0.4	-0.62	-0.1	0.04	-0.52	-0.55	-0.38	-0.37	-1.08	-0.01	-0.51	-0.17	0.047222	-0.1375	-0.125	0.824227	0.464732	0.659748	1	0.956511	0.949645	
Dnrs1	Q9XQ56	1.56	1.09	1.3	1.55	0.99	1.29	0.86	1.43	1.1	1.16	1.43	1.27	0.74	0.89	0.92	0.91	-0.2325	-0.135	-0.51	0.27587	0.484953	0.025555	1	0.956511	0.633075	
Dnrs1	AD0M841E	0.15	0.25	0.3	1.01	0.38	1.16	0.09	0.15	1.57	0.71	0.02	1.45	1	1.56	-0.16	-0.3	-0.095	0.1725	-0.24	0.79614	0.697147	0.836649	1	0.956511	0.942685	
Dnrsd1	H3K17	0.8	0.59	0.09	-0.02	-0.34	-0.52	-0.63	-0.17	2.71	-0.81	-0.58	0.85	1.75	1.45	0.13	0.8	0.49	0.1775	0.6675	0.561818	0.814399	0.119519	1	0.956511	0.721448	
Dnrsd2	Q5CR04	-0.06	0.05	-1.28	-0.13	0.24	-1.2	-2.02	-1.98	-1.74	-0.38	-2.23	-0.64	-0.06	-1.38	-1.49	-1.59	-0.885	-0.7025	-0.745	0.141528	0.264773	0.138074	1	0.956511	0.734193	
Dnrs1	Q62418	0.35	0.04	0	0.56	0.19	0.26	0.22	0.63	0.34	0.46	0.31	0.34	0.4	0.1	-0.1	-0.13	0.0875	0.125	-0.37	0.664398	0.520808	0.118914	1	0.956511	0.721448	
Dnrs1	Q92381	-2.98	-2.57	-2.93	-2.99	-2.45	-2.94	-3.12	-3.1	-3.45	-2.05	-3.52	-2.54	-2.14	-2.72	-2.9	-3.01	-0.285	-0.0225	0.175	0.115326	0.950364	0.491952	1	0.956511	0.897531	
Dnrs1	P53395	0.68	0.79	0.59	0.69	0.55	0.82	0.51	0.36	0.21	0.21	0.66	0.33	-0.11	-0.1	-0.05	0.07	-0.1275	-0.335	-0.735	0.443097	0.090451	0.001955	1	0.956511	0.415079	
Dnrs1	Q80TR8-4	-2.6	-3.13	-1.74	-1.78	-3.2	-2.91	-2.45	-2.29	-0.96	-2.68	-2.3	-2.22	-0.56	-2.29	-3.04	-2.21	-0.485	0.1875	0.2025	0.209442	0.68685	0.721305	1	0.956511	0.958398	
Dnrs1	ADAKB9-2	-0.55	0.07	-1.78	-2.13	0.07	-0.39	-2.29	-2.27	-0.36	-0.47	-1.38	-0.09	-0.71	-0.13	-1.58	-2.37	-0.2325	0.7575	-0.1	0.764811	0.222588	0.877556	1	0.956511	0.979626	
Dnrs1	Q91VU6	-0.97	-1.07	0.97	1.09	0.2	-1.18	1.23	0.74	-1.5	0.61	1.3	-1.22	-1.16	-1.15	1.04	0.8	0.1425	-0.3075	-0.1225	0.848551	0.80007	0.872727	1	0.956511	0.979626	
Dnrs1	Q9PAC3	0.13	1.15	0.9	0.91	0.02	0.12	0.83	0.75	0.07	0.49	0.38	0.02	0.5	0.73	0.08	0.77	0.585	0.071203	0.471435	0.040684	0.658454	0.979626	1	0.956511	0.979626	
Dnrs1	Q6WQ15	-4.69	-6.37	-1.79	-0.3	-7.24	-5.47	-1.66	-0.98	-2.82	-0.84	-1.63	-1.46	-1.67	-5.76	-1.16	-0.98	-0.55	1.345	0.895	0.76243	0.96067	0.754227	1	0.956511	0.926116	
Dnrs1	Q9QC22	-0.78	-1	-1.06	-0.16	-0.86	-0.83	-1	-0.88	-0.77	-0.26	-0.59	-0.95	-0.63	-0.59	-0.91	-1.32	-0.1425	-0.2375	-0.1125	0.538118	0.484006	0.693667	1	0.956511	0.955729	
Dnrs1	P31963	-0.16	-0.23	-0.23	-0.07	0.06	-0.32	0.1	-0.12	-0.2	0.18	-0.26	-0.15	-0.09	-0.21	0.05	-0.16	0.1025	0.065	0.07	0.533736	0.712888	0.686771	1	0.956511	0.955729	
Dnrs1	Q8N7N5	-0.19	0.03	0.83	0.82	0.38	1.44	1.27	1.47	1.21	1.18	2.31	1.52	1.34	1.66	1.45	1.35	0.25	0.1	0.125	0.501514	0.85742	0.006312	1	0.956511	0.955729	
Dnrs1	Q8RH4C	0.75	0.66	0.22	-0.22	0.75	1.09	0.55	0.31	1.15	-0.25	0.16	1.22	0.95	0.84	0.38	0.25	0.3225	0.2175	0.2525	0.26877	0.596785	0.403322	1	0.956511	0.876098	
Dnrs1	P70211-3	0.09	0.37	0.48	0.58	0.17	0.02	0.79	0.51	0.21	0.6	0.82	0.41	0.15	0.55	0.26	0.43	-0.0075	0.13	-0.1075	0.973302	0.541484	0.642602	1	0.956511	0.94365	
Dnrs1	E9PV03	0.92	1.24	0.19	0.59	0.59	0.91	0.1	0.27	1.4	1.11	0.12	1.23	1.2	0.4	0.42	0.28	-0.2675	0.23	-0.16	0.365759	0.523986	0.150106	1	0.956511	0.936334	
Dnrs1	Q8BV86	1.17	1.54	0.83	0.82	0.28	1.44	1.27	1.47	1.21	1.18	2.31	1.52	1.34	1.66	1.45	1.35	0.25	0.1	0.125	0.501514	0.85742	0.006312	1	0.956511	0.955729	
Dnrs1	AD0AG0ZG	1.46	1.63	0.97	0.81	0.23	0.16	1.39	0.83	0.67	0.17	0.8	2.57	0.4	0.54	1.13	1.26	-0.0475	-0.25	-0.385	0.917373	0.65683	0.222804	1	0.956511	0.787447	
Dnrs1	Q8CNC4	0.1	-0.42	-0.06	0.06	0.43	0.69	-0.51	0.1	0.3	-1.53	-0.69	-0.73	0.14	1.29	-1.76	-0.67	0.0475	-0.7925	-0.38	0.865833	0.060467	0.529855	1	0.956511	0.908663	
Dnrs1	H7R3K6	0.32	1.16	0.23	-0.78	-2.49	0.26	-1.07	0.4	-0.62	0.31	0.04	-0.26	1.94	-2.95	0.35	-0.1	-0.3775	0.215	0.1575	0.59099	0.594301	0.870944	1	0.956511	0.979293	
Dnrs1	Q9AM1M	1.22	0.47	-0.05	0.02	0.58	1.07	0.69	0.11	1.14	0.29	0.41	1.67	0.53	1.25	-0.05	-0.01	0.1975	0.4625	0.015	0.565848	0.782551	0.970486	1	0.956511	0.991737	
Dnrs1	Q6PQ83	0.05	-0.63	-0.36	-0.36	-0.4	-0.72	-0.63	-0.3	-0.2	-0.22	-0.31	-0.22	-0.22	-0.31	-0.22	-0.22	-0.22	-0.22	-0.22	0.1175	0.96907	0.786722	0.95114	1	0.956511	0.955729
Dnrs1	P28564	-0.79	-0.16	-1.14	-0.68	-0.45	-0.72	-1.08	-0.87	0.14	-1.75	-1.36	-0.34	-0.11	1.26	-0.29	-0.56	-0.8875	-0.135	0.3175	0.739413	0.766594	0.830165	1	0.956511	0.941132	
Dnrs1	Q91Y03	-0.94	-0.67	-0.04	0.17	-0.8	-1.22	0.13	0	-1.11	0.07	-0.13	-0.11	-1.15	-0.6	-0.42	-0.45	-0.1025	-0.175	-0.285	0.794148	0.984764	0.381481	1	0.956511	0.860094	
Dnrs1	BP9100	-1.08	-1.29	-0.11	0	-1.88	-1.55	-0.71	-0.12	-1.36	0.64	-0.73	-1.07	-0.77	-1.13	-0.85	-0.31	-0.385	-0.01	-0.145	0.460228	0.984903	0.691219	1	0.956511	0.955729	
Dnrs1	Q91Y05	-0.16	-0.25	-0.14	-0.21	-0.69	-0.41	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.591596	0.851808	0.166770	1	0.956511	0.955729	
Dnrs1	Q9OAR7	-4.01	-3.63	-3.96	-4.39	-3.23	-4.05	-4.25	-4.36	-3.27	-3.28																

Dhw17	ADAI1Y7VN	0.58	0.63	0.14	0.1	0.53	0.54	0.77	-0.09	-0.06	0.13	-0.22	0.3	0.59	1.09	-0.14	0.06	0.075	-0.325	0.0375	0.760447	0.162355	0.905968	1	0.96511	0.986321	
Dhw17b	24YK1E	0.18	0.47	0.29	0.44	0.58	0.05	0.38	0.27	0.58	0.53	0.39	0.3	0.16	0.91	0.09	0.25	-0.025	0.105	0.0075	0.887595	0.452456	0.975	1	0.96511	0.992977	
Dhw18	A2ATU0	-2.16	-0.83	1.27	-0.07	0.48	0.69	-1.4	-0.6	0.77	-1.5	-0.38	0.44	0.68	0.42	-0.22	-2.58	1.4025	1.4425	1.185	0.082414	0.07961	0.202451	1	0.96511	0.782817	
Dhw19	O35Z86	-1.51	-1.61	-1.1	-1.31	-1.55	-1.7	-1.3	-1.01	-1.22	-0.86	-1.38	-1.76	-1.71	-1.69	-1.25	-1.33	-0.0075	-0.1475	-0.1125	0.972092	0.623708	0.607359	1	0.96511	0.933262	
Dhw20	G36X80	0.45	-1.44	-0.2	0.44	0.4	-0.59	-0.55	-0.06	1.68	-0.36	0.07	-0.62	0.97	-0.79	-0.44	0.14	-0.0125	0.38	0.1575	0.875566	0.546604	0.772171	1	0.96511	0.956933	
Dhw29	Q8PGC1	-1.56	-1.7	-1.67	-1.7	-1.38	-1.28	-1.63	-1.64	-1.12	-0.98	-1.51	-1.4	-1	-1.15	-1.38	-1.41	0.175	0.405	0.4225	0.288471	0.054913	0.046004	1	0.96511	0.658454	
Dhw30	ADAI0X2JG	-0.25	-0.2	0.54	-0.35	0.09	-0.23	0.29	-0.11	-0.42	-0.51	-0.43	-0.26	0.43	0.12	-0.31	-0.1	0.205	-0.055	0.16	0.238001	0.701346	0.44	0.883459	1	0.96511	0.883459
Dhw32	D324E3	-1.94	-2.22	-1.53	-1.74	-2.77	-2.96	-1.5	-2.27	-2.17	-0.66	-2.08	-2.14	-1.18	-1.71	-1.74	-2.19	-0.2675	0.095	0.1525	0.440983	0.803651	0.583465	1	0.96511	0.927374	
Dhw35	Q8K1G9	-0.34	0.03	-0.27	-0.63	-1.12	-1.26	-0.38	-0.29	-0.69	-0.07	-0.27	-0.42	-0.14	-0.34	-0.86	-0.21	-0.49	-0.46	0.2425	0.133929	0.788665	0.477542	1	0.96511	0.892234	
Dhw36	Q8YH9	-1.08	-1.27	-0.74	-0.72	-0.92	-1.25	-0.33	-0.28	-0.85	-0.72	-0.68	-0.89	-0.35	-0.62	-0.81	-0.69	0.2575	0.1675	0.335	0.36197	0.402739	0.1506	1	0.96511	0.749304	
Dhw38	Q8D308	-0.87	-0.11	-0.87	-2.66	-0.05	-0.44	-2.55	-2.85	-0.89	-0.39	-2.12	-2.55	-0.48	-0.24	-3.31	-0.25	0.045	0.813969	0.740571	0.962615	0.95927	1	0.96511	0.95927		
Dhw37	Q8W4P0	-1.06	-1.35	-0.77	-1.32	-0.95	-1.52	-0.7	-1.12	-0.93	-1.15	-1.13	-0.86	-1.38	-0.7	-0.7	-0.04	-0.0475	0.40	0.145	0.837127	0.802766	0.318821	1	0.96511	0.838969	
Dhw40	A2A4P0	-1.7	-1.24	-1.31	-0.85	-1.69	-1.17	-1.37	-1.31	-0.22	-0.52	-1.5	-2.38	-1.03	-1.37	-1.43	-1.64	-0.11	0.12	-0.0925	0.629675	0.805193	0.711493	1	0.96511	0.957969	
Dhw48	E9D0N1	-0.16	-0.92	0.45	0.66	0.28	-1.02	0.78	0.76	0.37	1.03	0.67	0.44	0.08	0.56	1.47	0.18	0.1925	0.4	0.815	0.705983	0.380769	0.095701	1	0.96511	0.698156	
Dhw49	ADAI087WF	0.82	0.03	-0.05	0.19	-0.26	0.3	0.03	0.54	-0.22	-0.42	0.01	-0.5	0.28	0.11	0.5	-0.36	-0.095	-0.5325	0.115	0.724091	0.05893	0.889508	1	0.96511	0.955729	
Dhw50	Q9H3	2.38	0.34	-0.17	-0.26	1.11	0.66	-0.11	-0.02	0.04	-0.58	-0.29	1.34	0.57	0.01	-0.5	0.14	0.0325	-0.445	-0.5375	0.968755	0.51873	0.398891	1	0.96511	0.867659	
Dhw51	E9P4V1	1.53	1.25	0.74	0.92	1.21	1.33	0.46	0.78	1.27	0.42	0.53	1.23	0.91	0.74	0.66	0.62	-0.165	-0.2475	-0.3775	0.547659	0.408553	0.12886	1	0.96511	0.723655	
Dhw52	Q6W4W7	0.23	-0.05	0.35	0.34	0.12	-0.05	0.46	0.55	-0.16	0.12	0.14	-0.08	-0.39	0.03	0.16	0.26	0.0525	-0.2725	-0.2025	0.794644	0.157149	0.373137	1	0.96511	0.859424	
Dhw53	FRV054	-0.51	-0.99	-0.66	-1.02	-0.14	-0.56	-0.85	-0.4	-0.11	-0.84	-0.64	0.29	0	-1.25	-0.58	0.34	0.3775	0.47	0.2525	0.162271	0.136028	0.415654	1	0.96511	0.874945	
Dhw54	Q8C980	-1.43	-1.58	3.47	1.7	-1.07	-2.11	-1.55	-2.12	-2.21	1.46	-1.86	-2.27	-1.53	-2.65	-3.84	-2.04	-2.5325	-1.51	-0.865	0.072544	0.322866	0.27477	1	0.96511	0.939823	
Dhw51	Q90004	-0.59	-0.2	-0.21	-0.31	-0.32	-0.82	-0.02	-0.08	-0.13	-0.35	-0.37	-1.21	-0.06	1.27	-0.01	-0.07	0.0175	-0.1875	0.61	0.937918	0.493939	0.101659	1	0.96511	0.698697	
Dhw2	FRW516	0.17	-0.05	0.08	0.4	0.28	-0.06	0.28	0.17	-0.14	-0.49	0.28	-0.08	-0.46	0.08	-0.1	0.19	0.0175	-0.0125	-0.2225	0.919759	0.9539	0.328784	1	0.96511	0.848493	
Dhw2b	B2RQC7	1.69	0.68	0.3	0.49	0.57	0.89	0.48	0.69	1.21	0.04	0.4	1.73	0.5	1.8	-0.54	-0.08	-0.1325	-0.035	-0.62	0.676406	0.94313	0.303136	1	0.96511	0.831227	
Dhw2b	G3UH60	-0.26	-0.23	0.04	0.06	-0.01	0.02	0.14	0.06	-0.25	0.02	0.08	-0.12	-0.46	0.21	-0.46	-0.42	0.15	0.0	-0.185	0.335917	0.868755	0.298651	1	0.96511	0.879165	
Dhw2b	B2RQ71	0.47	0.29	0.31	0.41	0.42	0.39	0.03	0.19	0.69	0.07	0.37	0.02	0.19	0.78	0.13	-0.21	-0.1125	-0.0835	-0.2125	0.450244	0.690045	0.420142	1	0.96511	0.875558	
Dhw2b	B72M27	0.22	-0.25	1.1	1.22	0.13	0.04	1.34	1.36	0.53	1.78	1.08	-0.07	0.4	0.3	0.94	1.19	0.125	0.2575	0.135	0.794428	0.604238	0.735361	1	0.96511	0.958635	
Dhw2b	Q9NM14	-0.97	-1.19	-1.53	-1.08	-0.11	-0.81	-0.24	-1.23	-1.21	-1.18	-1.25	-1.07	-1.2	-0.2	-0.31	-0.29	0.595	0.01	0.6925	0.06481	0.930498	0.304812	1	0.96511	0.651434	
Dhw2a	Q3U528	0.42	0.61	2.37	0.29	1.3	0.89	3.65	3.72	-0.11	1.91	3.43	0.97	-1.28	-0.46	2.44	0.42	0.7175	-0.1125	-0.4175	0.444039	0.804117	0.750208	1	0.96511	0.961479	
Dhw1	Q91Z61	-0.91	-0.45	-0.35	-0.14	-0.27	-0.42	-0.23	-0.1	-0.26	-0.09	-0.42	-0.23	0.1	-0.38	0.125	-0.08	0.315	0.741826	0.732291	0.38142	0.38142	1	0.96511	0.930176		
Dhw2	Q5P873	-0.3	-0.26	-0.09	0.06	-0.11	-0.43	0.01	-0.22	-0.27	-0.11	-0.15	-0.35	0.28	-0.8	-0.84	-0.04	-0.06	-0.3375	0.181875	0.726708	0.264071	0.264071	1	0.96511	0.816045	
Dhw3	Q5C943	-1.5	-3.78	-2.56	-2.71	-4.2	-3.78	-2.64	-2.36	-2.38	-0.08	-2.47	-3.73	-1.02	-3.61	-1.65	-1.87	-0.3325	0.4725	0.1	0.438319	0.302807	0.842417	1	0.96511	0.690427	
Dhw32	Q8C7F5	-0.59	-0.51	0.06	0	-0.37	-0.72	-0.01	-0.39	-0.81	0.46	-0.09	-0.51	-0.77	-0.08	-0.25	-0.32	0.0075	-0.0225	-0.095	0.978883	0.443931	0.170538	1	0.96511	0.957819	
Dhw2	Q8C9F5	-1.4	-1.5	-0.37	0.26	1.06	1.86	0.11	-0.32	-0.1	-0.85	-0.26	1.45	0.16	0.1	0.1	0.1	0.1275	0.899425	0.660891	0.81237	0.35	0.35	1	0.96511	0.939823	
Dhw1c	Q8OY81-7	0.87	1.11	0.67	0.8	1.15	1.01	1.09	1.03	0.98	0.19	1.05	1.19	1.42	0.5	1.28	0.96	0.2075	-0.01	0.1775	0.216923	0.96951	0.498284	1	0.96511	0.897531	
Dhw1	E9S5X5	1.89	1.42	1.2	1.03	1.54	1.69	1.32	1.09	0.73	1.17	1.29	1.32	0.71	1.28	1.34	1.51	0.025	-0.5075	-0.175	0.917817	0.148431	0.531596	1	0.96511	0.910204	
Dhw3	Q9QU9N	-0.53	-0.24	1.99	-0.16	-2.12	-2.21	-2.05	-2.37	-2.23	-0.67	-2.2	-1.81	-1.29	-2.27	-2.14	-2.21	0.0445	0.5025	0.2525	0.811928	0.198378	0.37541	1	0.96511	0.896611	
Dhw1	Q8B8M4	-0.47	0.56	0.07	0.42	0.3	0.62	0.08	-0.17	0.62	0.3	0.86	0.37	-1.53	-0.28	0.34	-0.1	-0.2725	0.445896	0.57813	0.720561	0.720561	0.720561	1	0.96511	0.959424	
Dhw1	ADAI08A117	-0.54	0.21	0.73	0.99	-0.07	-0.92	0.72	1	-0.23	-0.13	1	-0.47	-0.09	-0.32	0.38	0.88	-0.165	-0.035	0.135	0.744476	0.496868	0.743676	1	0.96511	0.959321	
Dhw1	O08749	1.59	1.43	1.43	1.49	0.91	1.3	1.12	1.49	1.32	1.34	1.39	1.51	0.89	0.37	0.87	1.39	-0.28	-0.45	-0.605	0.140357	0.280616	0.345055	1	0.96511	0.651434	
Dhw1	E9Q9H0	0.58	0.57	1.16	1.35	0.58	0.61	0.91	1.28	0.62	1.19	1.23	0.57	0.34	0.1	0.87	0.73	-0.07	-0.0125	-0.405	0.792134	0.964355	0.180193	1	0.96511	0.775542	
Dhw1	H78W94	2.44	1.91	1.03	1.47	1.06	1.59	1.65	1.23	1.27	1.28	1.06	1.71	-0.05	0.64	1.58	1.42	0.33	-0.3825	-0.565	0.324917	0.642418	0.50822	1	0.96511	0.807201	
Dhw1	Q811D0-2	-0.98	-2.71	-2.43	-0.67	-4.02	-3.36	-2.74	-3.86	-2.74	-3.36	-2.74	-3.36	-2.74	-3.36	-2.74	-3.36	-0.125	0.3425	-0.51	0.861501	0.03042	0.445215	1	0.96511	0.848417	
Dhw1	D32B88	2.01	0.66	1.59	2.23	0.45	2.18	1.12	2.3	2.54	1.67	1.63	2.2	2.4	0.94	1.42	1.41	-0.11	-0.3875	-0.08	0.83173	0.33883	0.85559	1	0.96511	0.976225	
Dhw2	ADAI338P6	1.53	1.21	1.12	1.37	1.24	1.51	1.23	1.4	0.89	0.84	1.34	1.41	0.63	1.08	0.89	1.04	0.0375	-0.1825	-0.3975	0.823121	0.392135	0.753006	1	0.96511	0.673156	
Dhw2	Q91XMP-6	-0.91	-1.34	-0.48	-0.12	0.91	-0.9	-0.04	0.28	0.03	-3.14	-0.08	-1.51	-4.09	-0.34	-1.55	-0.46	0.775	-0.4625	-0.8975	0.095956	0.523442	0.290025	1	0.96511	0.825134	
Dhw2	ADAI571B8	0.19	0.35	1.21	0.97	1.07	1.63	1.02	1.34	1.01	-1.67	1.27	-0.08	-1.22	0.19	0.1	0.1	0.1275	0.899425	0.660891	0.81237	0.35	0.35	1	0.96511	0.939823	
Dhw3	P70175	1.18	0.85	1	1.33	0.93	1.13	1.24	1.47	0.82	1.02	1.24	1.06	0.32	0.75	0.75	0.92	0.1025	-0.055	-							

Dpfl1	D3YGY66	-4.19	-5.59	-1.99	-2.48	-4.89	-4.99	-2.13	-2.31	-4.24	-1.93	-2.01	-4.41	-3.07	-6.73	-2.5	-2.42	-1.75E-02	0.415	-0.1175	0.986317	0.667866	0.920179	1	0.986511	0.986868	
Dpfl2	D3ZNY66	-1.75	-2.76	-2.03	-1.19	-3.01	-2.22	-2.35	-2.45	-1.57	-0.95	-2.3	-2.25	-1.83	-3.1	-2.5	-2.5	-0.3975	0.3425	-0.3725	0.187727	0.373505	0.293437	1	0.986511	0.982512	
Dpfl1	Q5NCC05	-1.47	-0.59	-0.96	-0.51	-1.15	-1.17	-0.65	-0.78	-0.77	1.03	-0.47	-0.37	-1.22	-0.91	0.045	0.56	0.24	0.850327	0.270949	0.423027	0.91	1	0.986511	0.875782		
Dpfl2	Q5CR205	-0.88	-0.34	-0.01	0.05	-0.31	-0.77	-0.56	0.32	-0.5	1.19	-0.18	-0.59	-0.03	-0.37	-0.12	-0.41	-0.04	-0.27	0.0725	0.895251	0.541732	0.785262	1	0.986511	0.967642	
Dpfl3	Q5CWC00	-0.77	-0.32	-0.02	-0.59	-0.28	0.61	-0.73	-0.8	-0.54	-0.42	-0.68	-0.75	-1.25	-0.15	-0.67	-0.06	-0.17	-0.1275	-0.0625	0.617322	0.526353	0.841337	1	0.986511	0.976225	
Dpfl6	Q5C02B-2	-0.57	-0.96	-1.13	-1.43	-0.61	-1.28	-1.23	-1.63	0.21	-0.99	-1.89	-0.81	-1.56	-0.89	-1.79	-1.14	-1.05	-0.1525	-0.2325	0.536045	0.729602	0.804738	1	0.986511	0.822084	
Dpfl7	Q5CYL66	-0.19	-0.17	-0.02	-0.51	-0.54	-0.03	-0.54	-0.28	-0.81	0.08	0.4	-0.34	0.03	-0.9	0.39	0.58	-0.1325	0.3425	0.155	0.250911	0.313611	0.713866	1	0.986511	0.958106	
Dpfl1	Q701512	-0.07	0.12	-0.99	-0.79	-0.43	-0.08	-0.36	-0.66	-0.93	-1.76	-1.07	-0.04	-0.36	-0.58	-0.13	-0.1	0.41	-0.5525	0.105	0.278641	0.221862	0.740426	1	0.986511	0.958796	
Dpfl3	Q90104	0.99	0.25	-0.14	0.39	0.34	0.8	0.38	-0.34	0.41	-0.25	-0.33	0.58	0.87	0.96	0.3	0.64	-0.0775	0.32	0.81125	0.418728	0.290756	1	0.986511	0.825497		
Dpfl10	Q8XN0X7	0.34	0.62	0.63	0.45	0.78	0.75	0.55	0.38	0.26	-0.63	0.6	0.54	0.08	0.02	0.22	0.32	0.105	-0.3175	-0.35	0.540596	0.3104	0.083483	1	0.986511	0.689531	
Dpfl10	ADAF58RMP	-0.64	-0.18	-0.64	-0.43	-0.26	-0.73	-0.48	-0.38	-0.72	-0.18	-0.58	-0.44	-0.18	-0.52	-0.78	-0.48	-0.855	0.70743	0.085635	0.121686	0.91	1	0.986511	0.712448		
Dpfl3	Q59KX7	-0.33	-0.56	-0.18	0.01	-0.64	-0.05	-0.09	0.05	-0.11	0.26	-0.06	0.26	-0.34	0.17	-0.33	-0.26	-0.065	0.077	0.771911	0.310291	0.753175	0.961479	1	0.986511	0.961745	
Dpfl4	P28843	-0.39	-0.25	-0.4	0.33	0.11	-0.25	-0.27	-0.67	0.02	-0.01	-0.26	-0.1	-0.23	-0.23	-0.63	-0.14	-0.0925	0.09	-0.015	0.709854	0.68463	0.955826	1	0.986511	0.992535	
Dpfl6	EP9W41	1.28	1.03	1.3	1.51	0.92	1.1	1.77	1.74	0.87	0.78	1.44	1.45	0.3	0.69	1.5	1.36	0.1025	-0.145	-0.405	0.684378	0.541444	0.170193	1	0.986511	0.762229	
Dpfl6	Q8VW45	-1.76	0.13	-0.37	-1.15	-0.32	0.08	0.11	-0.24	-0.84	-2.51	0.68	-0.51	-0.14	0.65	-0.29	-1.24	0.855	1.145	0.5325	0.063919	0.187108	0.373709	1	0.986511	0.844804	
Dpfl7	Q8T722	-1.29	-1.27	-0.98	-0.36	-0.68	-0.06	-0.7	-0.53	-1.48	0.1	-0.3	-1.01	-0.96	-1.74	-0.69	-0.66	-0.1175	0.3025	-0.0375	0.695834	0.454011	0.910633	1	0.986511	0.986146	
Dpfl8	Q8OY47	-0.25	-0.54	-0.58	-0.42	-0.52	-0.42	-0.32	-0.46	-0.18	0.78	-0.51	-0.5	-0.1	-0.39	-0.66	-0.68	0.0175	-0.045	-0.01	0.906965	0.818396	0.962332	1	0.986511	0.95927	
Dpfl9	Q8BV64	0.45	0.06	0.28	-0.2	0.16	0.44	0.38	0.25	-0.76	-0.8	0.24	0.25	-0.99	-0.43	-0.09	0.04	0.16	-0.415	-0.515	0.413802	0.225316	0.100378	1	0.986511	0.698156	
Dpfl19	AG6919	-1.06	-0.28	-1.46	-1.67	-0.35	-0.7	-0.31	-1.26	-1.28	-3.07	-1.27	-0.51	-0.66	-0.81	-0.64	-0.21	0.6375	-0.45	0.5375	0.161627	0.476212	0.134862	1	0.986511	0.731223	
Dpfl19	Q71807	-0.36	0.13	-2.05	-2.28	-0.4	-0.47	-0.76	-1.74	0.06	-2.43	-1.89	-0.31	-0.51	-0.89	-1.61	-1.53	0.4325	0.0475	0.61	0.521782	0.952158	0.463636	1	0.986511	0.887169	
Dpfl19	AD4VQ3-2	-1.71	-0.89	-1.17	-1.86	-0.88	-1.14	-1.53	-2.68	-1.6	-1.35	-1.76	-1.54	-0.49	-1.67	-0.6	0.14	-0.25	-0.155	0.7525	0.568802	0.557219	0.100452	1	0.986511	0.698156	
Dpfl30	Q99L70	-0.37	-0.1	-0.09	0.13	-0.47	-0.72	0.12	0.37	-0.02	0.54	0.35	-0.44	-0.57	0.1	-0.19	0.08	-0.0675	0.215	-0.0375	0.807489	0.416086	0.870961	1	0.986511	0.975293	
Dpfl9	Q8CHR66	-0.12	-0.66	-1.35	1.04	0.3	0.2	0.34	-0.29	2.71	1.86	-0.35	-0.1	1.58	0.34	0.15	0.45	0.08	0.9725	1.3375	0.87399	0.583134	0.128015	1	0.986511	0.723655	
Dpfl9	Q5CQF05	-2.84	-2.76	-1.54	0.32	-2.92	-3.73	-0.33	-0.15	-2.98	-0.59	-1.85	-2.91	-1.29	-2.33	-1.26	-1.22	-0.0775	-0.3775	0.79	0.649979	0.653518	0.412759	1	0.986511	0.874811	
Dpfl2	Q80S53	-0.37	-0.24	-0.34	-0.05	-0.21	-0.52	0.1	-0.02	-0.66	-0.18	-0.3	-0.26	-0.89	-0.52	-0.47	-0.54	0.0875	-0.01	-0.355	0.649058	0.258213	0.090406	1	0.986511	0.698156	
Dpfl13	EP9W68	-0.01	-0.08	-0.26	-0.12	-0.23	-0.05	0.03	0.14	0.71	0.51	0.23	0.72	0.19	0.54	0	-0.27	0.09	0.66	0.2325	0.573379	0.006239	0.317629	1	0.986511	0.838864	
Dpfl13	Q3TMU8	0.35	0.37	0.01	0.24	0.05	0.14	0.18	0.22	0.5	0.18	0.02	0.31	-0.04	1.09	-0.34	-0.42	-0.095	0.01	-0.17	0.548418	0.957572	0.633957	1	0.986511	0.941132	
Dpfl13	Q5CQF06	0.23	0.07	0.08	0.39	-0.1	-0.11	0.51	0.04	0.67	0.27	0.53	0.86	-0.22	0.37	-0.05	0.06	-0.015	0.39	-0.1475	0.942792	0.475068	0.480393	1	0.986511	0.893906	
Dpfl1	Q51WV0	-0.37	-0.56	-0.28	-1.72	-0.95	-0.71	-1.26	-0.66	-1.06	-0.32	-0.54	-0.64	-1.56	-0.26	-2.51	-1.05	-0.165	-0.12	-0.85212	0.946575	0.793451	0.905	1	0.986511	0.907645	
Dpfl1	FT6TK1	-2.39	-2.9	-3.97	-4.23	-1.75	-3.72	-4.18	-2.45	-3.04	-1.58	-4.62	-2.23	-2.76	-1.78	-5.31	-4.72	-0.2275	0.505	-0.27	0.749109	0.485681	0.748467	1	0.986511	0.960744	
Dpfl1	AD41Y7V41	0.31	2.13	-1.37	-0.65	0.63	1.83	1.34	-0.86	2.26	-0.34	-1.4	3.37	2.54	0.4	-0.15	-1.26	-0.815	-0.0925	-0.4975	0.503271	0.947851	0.687762	1	0.986511	0.955729	
Dpfl1	P12323	-1.09	-1.17	-1.77	-1.86	-1.4	-1.17	-1.76	-1.67	-1.62	-1.53	-1.81	-0.87	-1.69	-1.14	-2.35	-2.37	0.04	0.1325	-0.2975	0.871757	0.636672	0.393516	1	0.986511	0.865775	
Dpfl2	Q5CXB89	-0.01	-0.23	-0.32	-0.38	-0.2	-0.1	-0.09	-0.6	-0.1	-0.25	-0.06	-0.18	-0.67	-0.1	-0.59	-1.86	-0.17	-0.1925	-0.1925	0.749413	0.916423	0.164223	1	0.986511	0.944749	
Dpfl2	Q5SAA66	0.61	0.44	0.52	0.31	0.92	0.44	0.38	0.28	0.46	0.63	0.58	0.41	0.59	0.89	0.31	0.09	0.035	0.05	-2.76	-1.6	0.855949	0.763475	1	1	0.986511	1
Dpfl1	Q5ERC8	-0.46	0.17	0.71	0.66	0.24	0.1	0.25	-0.03	0.36	0.45	0.64	0.11	0.27	0.88	0.37	0.74	-0.13	0.12	0.295	0.647126	0.689934	0.363729	1	0.986511	0.858475	
Dpfl1	Q5P9P7	0.38	0.72	0.4	0.39	1.04	0.51	0.55	0.78	0.42	1.28	0.7	0.61	0.73	0.81	0.85	0.87	0.2475	0.28	0.3425	0.206662	0.250048	0.08382	1	0.986511	0.690099	
Dpfl1	AD4087FW	-0.21	-0.26	-0.33	-0.23	-0.23	-0.09	-0.21	-0.26	-0.23	-0.27	-0.3	-0.51	-0.69	-0.62	-0.42	-0.38	-0.05	-0.05	-0.05	0.509979	0.281577	0.916423	1	0.986511	0.944749	
Dpfl1	S4P115	0.73	0.83	0.75	0.68	0.78	0.54	0.69	0.65	0.63	0.77	0.68	0.73	0.48	0.65	0.74	0.6	-0.0025	-0.045	-0.13	0.57137	0.770025	0.455413	1	0.986511	0.887169	
Dpfl1	Q8R0P5	-0.05	-0.61	-0.56	-1.03	-0.68	-0.35	-0.23	-0.62	-1.62	-0.27	-0.44	-0.41	-1.26	-1.86	-0.59	-0.37	0.4575	0.1275	-0.2075	0.241065	0.768475	0.65449	1	0.986511	0.944749	
Dpfl1	AD4087FW	0.44	0.95	-0.08	-0.11	-0.27	0.69	-0.45	-0.09	1.6	0.73	-0.1	0.7	1.44	0.36	0.01	-0.21	-0.33	0.4325	0.1	0.348597	0.305446	0.813407	1	0.986511	0.972768	
Dpfl1	Q9D0118	-1.03	-1.13	-0.28	-0.52	-1.76	-1.12	-1	-0.62	-1.88	-0.18	-0.69	-1.49	0.34	-1.54	-0.48	-1.07	-0.34	0.605	0.075	0.311735	0.471371	0.463932	1	0.986511	0.888267	
Dpfl1	Q8B4K1	-0.51	-0.89	-0.92	-1.27	-0.52	-0.59	-0.51	-1.29	-0.82	-0.57	-1.11	-0.37	-1.11	-0.37	-1.11	-0.37	-0.1575	0.931566	0.526147	0.916423	0.793451	0.905	1	0.986511	0.944749	
Dpfl1	Q8C8F5	0.4	-0.05	0.98	0.41	0.02	0.45	1.13	0.29	0.48	0.3	0.91	0.26	1.01	-0.03	1.04	1.15	0.0375	0.045	0.3675	0.904166	0.869002	0.316565	1	0.986511	0.838625	
Dpfl1	Q31VX00	0.91	0.65	0.08	0.5	0.44	0.89	0.28	0.15	0.52	0.89	0.42	1.28	0.35	-0.41	0.5	0.26	-0.095	0.2425	-0.36	0.704233	0.389343	0.269676	1	0.986511	0.787447	
Dpfl1	AD41Y7V41	-0.94	-1.76	-3.1	-2.47	-1.76	-0.53	-1.96	-2.83	-0.62	-1.21	-2.12	-1.22	-1.48	-0.48	-1.62	-3.37	-0.2025	0.735	-0.82	0.798630	0.160369	0.349648	1	0.986511	0.85327	
Dpfl1	D3YV13	0.34	-0.12	0.87	0.66	0.05	-0.01	-0.24	-0.54	-0.2	0.54	-0.19	0.08	-0.64	-0.3	-0.19	-0.05	-0.0505	0.4054	-0.055	0.405954	0.239403	0.78819	1	0.986511	0.963946	
Dpfl1	P93930	1.42	1.28	0.64	0.84	0.76	1.29	0.84	1.06	-0.22	-0.17	0.96															

Ef2k2k	Q03963	-0.98	-2.36	-0.28	0.02	-2.63	-1.22	0.79	0.32	0.36	-0.5	-0.05	-1.6	0.31	-0.16	0.31	1.07	0.215	0.4525	1.2825	0.799856	0.472442	0.040092	1	0.995511	0.658454	
Ef2k2k	Q09285	-0.46	-0.04	-0.69	-0.18	-0.21	-0.11	-0.35	-0.22	0.75	-0.7	-1.09	-0.05	1.03	0.67	-0.56	-0.1	0.1225	0.07	0.5525	0.577388	0.863741	0.184741	1	0.995511	0.776843	
Ef2k4k	A2AJUN0	-0.17	-0.37	0.54	0.24	-0.36	0.39	-0.86	-0.5	-0.02	0.22	0.61	-0.31	0.31	-0.23	-0.88	-0.41	-3.06	0.1	0.06	0.471581	0.683008	0.79447	1	0.995511	0.967289	
Ef2b1k	Q091C8	0.15	0.05	-0.13	-0.07	-0.06	0.14	0.06	-0.06	0.01	-0.36	-0.37	0.02	-0.09	0.16	-0.63	-0.23	0.02	-0.175	0.1775	0.895226	0.360648	0.893939	1	0.995511	0.865375	
Ef2b2k	Q091D9	-1.41	-1.3	-0.6	-0.8	-1.85	-1.33	-0.58	-0.67	-0.08	-0.64	-0.75	-1.47	0.62	-1.4	-0.97	-1.17	-0.08	0.2925	0.2975	0.816159	0.401005	0.52997	1	0.995511	0.908663	
Ef2b3k	B1AUJ2	-0.24	-0.53	-0.14	-0.65	-0.5	-0.62	-0.13	-0.32	-0.97	-0.06	-0.15	-0.31	-0.84	-1.47	-0.4	-0.09	-0.0025	0.17	0.31	0.988007	0.49439	0.35541	1	0.995511	0.855029	
Ef2b4k	D127B0	-0.67	-0.64	-0.47	-0.17	-0.83	-0.7	-0.59	-0.32	-0.62	0.17	-0.2	-0.69	-0.36	-0.34	-0.46	-0.45	-0.1225	0.2775	0.652599	0.41115	0.161015	1	0.995511	0.940445		
Ef2b5k	Q8CHW4	0.41	-0.21	0.83	1.45	0.16	0.09	1.09	1.26	-0.29	1.76	0.85	0.1	-0.67	-0.38	0.57	0.9	0.03	-0.015	-0.515	0.944799	0.977338	0.299636	1	0.997923	0.825161	
Ef2b6k	Q61211	-0.72	-0.84	-1.47	-1.28	-0.62	-1.04	-1.38	-0.51	-1.07	-1.12	-0.88	-0.4	-0.33	-1.17	-0.95	0.0525	0.1625	0.365	0.831952	0.527639	0.227964	1	0.995511	0.787447		
Ef2b7k	Q020W6	-0.3	-1.38	-1.37	-1.33	-0.94	-0.56	-1.02	-1.31	-0.96	-0.34	-1.28	-0.66	-1.05	-0.34	-1.04	-1.23	0.1375	0.285	0.18	0.652511	0.39902	0.591498	1	0.995511	0.929755	
Ef2b2k	Q09145	-1.16	-0.66	-1.12	-0.37	-0.54	-0.24	-0.36	-0.39	-0.86	-0.5	-0.02	0.22	0.61	-0.31	-0.23	-0.88	-0.41	-3.06	0.1	0.06	0.471581	0.683008	0.79447	1	0.995511	0.938002
Ef2b3k	Q091X1	-1.36	-2.71	-1.12	-1.22	-2.03	-1.35	-0.72	-1.01	-2.17	-0.82	-1.12	-1.59	-1.17	-1.08	-0.7	-0.8	0.325	0.1075	0.1675	0.453597	0.818001	0.733907	1	0.995511	0.958835	
Ef2b3y	Q020N2	-1.17	0.84	-0.04	-1.32	-0.6	-0.05	-0.89	0.26	-0.27	-2.12	-0.38	0.87	0.27	0.68	0.32	-1.92	0.1025	-0.0525	0.26	0.845283	0.942266	0.714375	1	0.995511	0.958106	
Ef2b3k	P21116	-1.3	-2.32	-1.46	-1.34	-1.59	-1.58	-1.04	-1.49	-1.36	-0.76	-1.47	-1.49	-0.89	-1.21	-0.51	-0.88	0.18	0.335	0.7325	0.521606	0.284008	0.032687	1	0.995511	0.644622	
Ef2b3k	Q8QZD9	-1.82	-2.27	-1.3	-1.12	-1.59	-1.74	-0.7	-1.07	-2.04	-1.06	-1.03	-1.78	-1.27	-1.32	-0.64	-0.83	0.5325	0.15	0.4875	0.317581	0.875508	0.197394	1	0.995511	0.780004	
Ef2b3k	Q8R184	-0.61	-0.64	-0.47	-0.14	-0.85	-0.78	-0.37	-0.51	-1.36	-0.08	-0.91	-1.17	-0.76	-0.53	-0.56	0.285	0.07	0.2575	0.227508	0.757878	0.122833	1	0.995511	0.840788		
Ef2b3k	Q70194	-1.31	-1.49	-1.61	-1.69	-0.74	-1.53	-0.44	-1.58	-1.91	-1.61	-1.4	-1.27	-2.04	-1.11	-1.24	-0.96	0.4525	-0.0225	0.1875	0.152569	0.913423	0.50362	1	0.995511	0.901002	
Ef2b3k	P60229	-1.38	-1.88	-1.36	-1.48	-1.03	-1.44	-0.82	-1.42	-1.18	-1.24	-1.24	-1.31	-1.6	-1.02	-0.82	-1.11	0.3475	0.137238	0.3875	0.13889	0.564672	0.13693	1	0.995511	0.732318	
Ef2b3k	Q090C4	-1.29	-1.84	-1.43	-1.23	-0.93	-1.47	-0.7	-1.31	-1.32	-1.02	-1.3	-1.36	-1.3	-1.07	-0.88	-0.9	0.345	0.1975	0.5025	0.173768	0.34722	0.053946	1	0.995511	0.661738	
Ef2b3k	Q02101	-1.96	-1.18	-1.54	-1.67	-1.57	-2.02	-1.41	-1.77	-1.64	-0.76	-1.61	-1.81	-1.23	-1.14	-1.14	-1.52	0.345	0.3825	0.58	0.513428	0.2047	0.025752	1	0.995511	0.633075	
Ef2b3k	Q01W62	-1.69	-2.1	-1.45	-1.51	-1.71	-1.85	-1.15	-1.74	-1.35	-1.32	-1.43	-1.84	-0.4	-1.59	-0.31	-1.26	0.075	0.2025	0.7975	0.748196	0.378956	0.044453	1	0.995511	0.658454	
Ef2b3k	Q01W62	-1.54	-1.93	-1.52	-1.36	-1.57	-1.81	-0.81	-1.42	-1.37	-1.51	-1.27	-1.58	-0.92	-1.27	-0.66	-0.82	0.185	0.155	0.67	0.475795	0.432445	0.014627	1	0.995511	0.589387	
Ef2b3k	Q13UG7	-0.96	-1.15	-1.04	-0.98	-1.08	-1.37	-1.19	-0.8	-1.11	-0.38	-0.8	-0.87	-1.09	-0.36	-1.28	-1.32	-0.0775	0.2425	0.02	0.660149	0.254867	0.380107	1	0.995511	0.989844	
Ef2b3k	Q090Z5	-0.95	-0.5	-1.54	-1.07	-0.82	-0.9	-1.02	-1.61	0.02	-0.52	-1.41	-0.91	-0.48	0.91	-1.47	-1.18	-0.0475	0.3625	0.485	0.860297	0.337765	0.366923	1	0.995511	0.858904	
Ef2b3k	Q020Y1	-0.71	-1.34	-1.3	-1.26	-0.08	-0.47	-0.64	-1.21	-1.1	-1.02	-1.11	-0.86	-1.65	-1.67	-0.59	0.5525	-0.12	0.0125	0.707002	0.707007	0.969998	1	0.995511	0.992767		
Ef2b3k	Q091X4	-3.9	-4.14	-1.87	-2.08	-2.97	-3.95	-1.14	-1.99	-4.04	-1.62	-2.12	-3.99	-3.98	-2.95	-1.85	-1.55	0.485	0.055	0.415	0.532097	0.943868	0.575848	1	0.995511	0.926728	
Ef2b3k	P60843	-0.53	-0.56	-1.38	-1.51	-0.5	-0.8	-1.34	-1.6	-0.55	-0.72	-1.44	-0.16	-0.21	0.24	-1.64	-1.6	-0.065	0.2775	0.1925	0.851887	0.453131	0.706363	1	0.995511	0.957084	
Ef2b3k	P10630	-1.48	-1.66	-1.38	-1.63	-1.26	-1.49	-1.01	-1.51	-1.99	-1.53	-1.31	-1.47	-1.88	-0.97	-1.78	-1.6	-0.2	-0.0375	0.03	0.241192	0.855347	0.898634	1	0.995511	0.983059	
Ef2b3k	Q01VC1	-0.53	-0.39	-0.21	-0.1	-0.56	-0.6	-0.16	-0.03	-0.41	-1.25	-0.3	-0.4	-1.25	-0.3	-0.4	-1.25	-0.3	-0.4	-1.25	0.346062	0.195131	0.474761	1	0.995511	0.848417	
Ef2b3k	Q8B9G0	0.25	-0.09	-0.67	-0.49	-0.66	-0.3	-1.13	-0.93	0.98	0.13	-0.91	0.31	1.39	0	-0.62	-1.14	-0.4225	0.3775	0.1575	0.208759	0.913423	0.708084	1	0.995511	0.965933	
Ef2b3k	P63073	-0.39	-0.42	-0.85	-0.32	-0.48	-0.53	-0.44	-0.65	-0.83	-0.52	-0.5	-0.35	-1.19	-0.06	-1.03	-0.95	-0.03	-0.015	-0.3125	0.864888	0.787503	0.306345	1	0.995511	0.832533	
Ef2b3k	D12730	-0.96	-1.18	-0.33	-0.73	-1.59	-0.91	-1.15	-1.01	0.39	-0.43	-0.53	-0.98	1.72	-0.9	-0.33	-0.43	-0.365	0.4125	0.815	0.16689	0.238759	0.171646	1	0.995511	0.763838	
Ef2b3k	P70442	-0.89	-0.15	-0.27	-0.04	-0.85	-0.78	-0.37	-0.59	-0.27	-0.9	-0.27	-0.8	-1.18	-0.76	-0.53	-0.56	0.285	0.07	0.2575	0.227508	0.757878	0.122833	1	0.995511	0.960788	
Ef2b3k	Q01W62	-1.69	-2.1	-1.45	-1.51	-1.71	-1.85	-1.15	-1.74	-1.35	-1.32	-1.43	-1.84	-0.4	-1.59	-0.31	-1.26	0.075	0.2025	0.7975	0.748196	0.378956	0.044453	1	0.995511	0.658454	
Ef2b3k	Q01W62	-1.54	-1.93	-1.52	-1.36	-1.57	-1.81	-0.81	-1.42	-1.37	-1.51	-1.27	-1.58	-0.92	-1.27	-0.66	-0.82	0.185	0.155	0.67	0.475795	0.432445	0.014627	1	0.995511	0.589387	
Ef2b3k	Q13UG7	-0.96	-1.15	-1.04	-0.98	-1.08	-1.37	-1.19	-0.8	-1.11	-0.38	-0.8	-0.87	-1.09	-0.36	-1.28	-1.32	-0.0775	0.2425	0.02	0.660149	0.254867	0.380107	1	0.995511	0.989844	
Ef2b3k	Q090Z5	-0.95	-0.5	-1.54	-1.07	-0.82	-0.9	-1.02	-1.61	0.02	-0.52	-1.41	-0.91	-0.48	0.91	-1.47	-1.18	-0.0475	0.3625	0.485	0.860297	0.337765	0.366923	1	0.995511	0.858904	
Ef2b3k	Q020Y1	-0.71	-1.34	-1.3	-1.26	-0.08	-0.47	-0.64	-1.21	-1.1	-1.02	-1.11	-0.86	-1.65	-1.67	-0.59	0.5525	-0.12	0.0125	0.707002	0.707007	0.969998	1	0.995511	0.992767		
Ef2b3k	Q091X4	-3.9	-4.14	-1.87	-2.08	-2.97	-3.95	-1.14	-1.99	-4.04	-1.62	-2.12	-3.99	-3.98	-2.95	-1.85	-1.55	0.485	0.055	0.415	0.532097	0.943868	0.575848	1	0.995511	0.926728	
Ef2b3k	P60843	-0.53	-0.56	-1.38	-1.51	-0.5	-0.8	-1.34	-1.6	-0.55	-0.72	-1.44	-0.16	-0.21	0.24	-1.64	-1.6	-0.065	0.2775	0.1925	0.851887	0.453131	0.706363	1	0.995511	0.957084	
Ef2b3k	P10630	-1.48	-1.66	-1.38	-1.63	-1.26	-1.49	-1.01	-1.51	-1.99	-1.53	-1.31	-1.47	-1.88	-0.97	-1.78	-1.6	-0.2	-0.0375	0.03	0.241192	0.855347	0.898634	1	0.995511	0.983059	
Ef2b3k	Q01VC1	-0.53	-0.39	-0.21	-0.1	-0.56	-0.6	-0.16	-0.03	-0.41	-1.25	-0.3	-0.4	-1.25	-0.3	-0.4	-1.25	-0.3	-0.4	-1.25	0.346062	0.195131	0.474761	1	0.995511	0.848417	
Ef2b3k	Q8B9G0	0.25	-0.09	-0.67	-0.49	-0.66	-0.3	-1.13	-0.93	0.98	0.13	-0.91	0.31	1.39	0	-0.62	-1.14	-0.4225	0.3775	0.1575	0.208759	0.913423	0.708084	1	0.995511	0.965933	
Ef2b3k	P63073	-0.39	-0.42	-0.85	-0.32	-0.48	-0.53	-0.44	-0.65	-0.83	-0.52	-0.5	-0.35	-1.19	-0.06	-1.03	-0.95	-0.03	-0.015	-0.3125	0.864888	0.787503	0.306345	1	0.995511	0.832533	
Ef2b3k	D12730	-0.96	-1.18	-0.33	-0.73	-1.59	-0.91	-1.15	-1.01	0.39	-0.43	-0.53	-0.98	1.72	-0.9	-0.33	-0.43	-0.365	0.4125	0.815	0.16689	0.238759	0.171646	1	0.995511	0.763838	
Ef2b3k	P70442	-0.89	-0.15	-0.27	-0.04	-0.85	-0.78	-0.37	-0.59	-0.27	-0.9	-0.27	-0.8	-1.18	-0.76	-0.53	-0.56	0.285	0.07	0.2575	0.227508	0.757878	0.122833	1	0.995511	0.960788	
Ef2b3k	Q01W62	-1.69	-2.1	-1.45	-1.51	-1.71	-1.85	-																			



Epn3	Q91W69	1.06	1.93	1.17	0.7	1.06	0.71	1.1	0.63	1.71	1.34	0.48	0.87	0.51	1.69	0.83	0.93	-0.34	-0.115	-0.225	0.254543	0.751766	0.531762	1	0.995511	0.910136
Epn3	Q8CGC7	-1.48	-2.31	-2.2	-2.5	-1.9	-1.63	-1.73	-2.42	-1.82	-1.27	-2.08	-1.51	-1.63	-1.46	-1.6	-2.21	0.0205	0.34	0.3975	0.484468	0.226916	0.198491	1	0.995511	0.780004
Ep15	P42561	1.1	1.21	1.38	0.51	0.37	0.29	1.03	0.83	0.22	1.15	-0.47	0.44	1.39	0.96	1.2	0.57	-0.0125	-0.2325	-0.03	0.931757	0.617194	0.91906	1	0.995511	0.986808
Ep151	Q69092	0.81	0.73	0.39	0.52	0.53	0.53	0.38	0.45	0.27	0.31	0.33	0.5	-0.02	0.63	0.03	0.08	-0.14	-0.26	-0.4325	0.39941	0.168403	0.082916	1	0.995511	0.688875
Ep151	Q69092-4	0.52	0.02	1.54	1.14	2.13	-0.2	0.88	0.47	-0.17	1.83	1.12	-0.05	0.2	1.97	0.45	-0.18	0.015	-0.1225	-0.155	0.978004	0.821045	0.716599	1	0.995511	0.958334
Ep8	Q8509	0.56	0.89	1.38	0.9	0.62	0.54	1.48	1.18	0.9	0.4	1.29	0.61	0.8	0.47	1.32	1.49	0.0225	-0.1325	-0.0875	0.939729	0.627307	0.72149	1	0.995511	0.965933
Ep82	Q9P930	-0.56	0.04	0.07	1.46	0.54	-0.65	0.21	0.38	1.57	0.39	0.88	-1.18	-0.6	0.19	0.57	0.2025	-0.39	-0.0825	0.423586	0.414352	0.45377	1	0.995511	0.979225	
Ep1	Q8ZU4	0.86	0.95	0.71	1.04	-0.17	0.74	0.28	0.57	1.68	1.67	0.78	0.64	1.3	1.41	0.93	0.86	-0.535	0.3025	0.235	0.042842	0.321508	0.281726	1	0.995511	0.822084
Erall	Q9EQH2	-0.09	-0.06	-0.54	-0.35	0.09	-0.15	-0.05	-0.18	-0.45	-1.44	-0.56	-0.13	-0.76	-0.18	-0.21	-0.1	0.0375	-0.385	-0.0525	0.30455	0.23034	0.82129	1	0.995511	0.972768
Ern3	Q61526	-0.09	0.04	0.31	0.55	0.42	0.35	1.45	0.68	0.18	1.23	0.21	0.36	-0.05	0.65	0.8	1.94	0.3475	0.2925	0.6325	0.369902	0.339326	0.155523	1	0.995511	0.750763
Ern4	Q61527-3	-0.09	0.04	0.31	0.55	0.42	0.35	1.45	0.68	0.18	1.23	0.21	0.36	-0.05	0.65	0.8	1.94	0.3475	0.2925	0.6325	0.369902	0.339326	0.155523	1	0.995511	0.750763
Ern3	Q8HT02	0.91	0.68	0.51	0.83	0.47	0.69	0.34	0.64	0.94	0.84	0.58	0.78	-0.39	0.04	0.85	0.64	-0.3425	-0.0785	0.053696	0.704951	0.604275	0.955729	1	0.995511	0.955729
Er1	V96W76	-1.02	-0.17	0.07	-0.75	-0.19	-2.25	0.25	0.14	-1.37	-1.4	-0.09	-0.72	-2.55	-0.8	-0.3	-0.48	-0.045	-0.4275	-0.565	0.938438	0.284361	0.304281	1	0.995511	0.831662
Er1	V9X0H3	1.01	0.87	0.78	0.8	0.87	0.98	0.69	0.81	1.19	1.05	1.02	1.31	0.88	0.89	0.77	0.63	-0.0275	0.2775	-0.0475	0.856531	0.124087	0.793504	1	0.995511	0.969365
Er2	Q3UH77	1.12	1.76	1.03	0.87	1.16	0.87	1.29	1.21	0.16	0.75	1.14	1.3	-0.18	0.19	0.73	1	0.0875	-0.3175	-0.72	0.712088	0.310877	0.045728	1	0.995511	0.686458
Er2	Q6PM08	1.61	1.31	1.42	1.46	1.35	1.68	1.22	1.5	1.34	1.04	1.48	1.68	1.05	1.1	1.36	1.36	-0.01	-0.065	-0.235	0.95279	0.744071	0.32144	1	0.995511	0.788693
Er2	Q08811	-4.33	-4.72	-2.51	-3.29	-4.03	-4.38	-3.12	-3.26	-3.91	-2.27	-2.39	-3.88	-3.51	-3.54	-2.54	-2.39	0.015	0.6	0.7175	0.977279	0.343535	0.209581	1	0.995511	0.782818
Er3	P49135	-2.49	-2.13	-0.59	-0.37	-2.07	-2.54	-0.37	-0.86	-2.21	-0.7	-0.68	-1.89	-1.01	-1.99	-0.49	-0.13	-0.265	0.075	0.54	0.722228	0.886783	0.374258	1	0.995511	0.859424
Er4	Q9Z024	-2.07	-2.36	-2.13	-1.93	-2.08	-2.22	-1.91	-2.25	-1.94	-0.73	-2.22	-1.87	-2	-1.66	-1.62	1.34	0.0075	0.4325	0.4675	0.96494	0.221145	0.055039	1	0.995511	0.661738
Er1	P70459	-0.33	0.13	0.83	-0.65	-0.55	-0.4	-0.8	-0.53	-0.45	-0.31	-0.67	-0.28	0.27	0.21	-0.01	-1.02	-0.16	-0.0075	0.0575	0.510222	0.976161	0.883902	1	0.997588	0.979767
Er2	Q8R9Y9	0.84	0.78	0.76	0.81	1.24	0.88	1.52	1.37	0.35	-0.56	0.6	0.77	0.64	0.37	1.76	1.67	0.455	-0.0805	-0.1225	0.031915	0.065858	0.853242	1	0.995511	0.976225
Er2	F6SLP4	-0.47	-0.36	-0.73	-0.97	-0.41	-0.41	0.17	-0.94	-0.52	-0.84	-0.73	-0.41	-0.06	0.39	-1.12	0.15	0.44	0.6875	0.7225	0.198141	0.971565	0.010421	1	0.997515	0.563386
Er2	Q9CR89	-1.22	-0.77	-2.25	-2.25	0.02	-1.06	-2.23	-2.11	-1.04	-1.44	-2.29	-0.55	-0.59	-0.78	-1.05	-0.13	0.2775	0.2925	0.69	0.639353	0.553393	0.106223	1	0.995511	0.703417
Er2	Q9CGE7	-0.52	-0.75	-0.91	-1.66	0.14	-0.2	-0.43	-0.86	-0.23	-1.79	-1.01	-0.31	0.72	-0.52	0.67	0.17	0.5725	0.075	1.155	0.10372	0.850838	0.012063	1	0.995511	0.566707
Er1	P84085	0.13	-1.28	0.1	0.03	-1.7	-0.26	-0.73	1.17	-0.28	0.7	0.23	1.18	-3.1	-1.14	1	0.76	-0.125	0.1225	0.6075	0.841885	0.803588	0.432939	1	0.995511	0.873565
Er1	Q8C460	-1.2	-1.09	-0.97	-0.97	-1.13	-1.15	-0.71	-0.99	-1.1	-0.63	-0.97	-1.19	-0.99	-0.09	-0.94	-1.15	0.0625	0.085	0.265	0.712661	0.657947	0.339187	1	0.995511	0.847641
Er1	Q8VEH8	-1.22	-0.99	-1.15	-1.39	-0.28	-0.81	0.18	-0.96	-1.31	-1.52	-1.06	-0.96	-0.68	-0.35	0.36	0.68	0.72	-0.025	1.19	0.027536	0.900618	0.005381	1	0.995511	0.552614
Er1	Q91X78	1.31	0.7	-0.08	0.3	1.43	0.09	0.23	0.03	1.34	0.41	-0.51	0.87	1.62	2.18	1.01	0.84	0.2875	0.12	1.005	0.539719	0.813376	0.050487	1	0.995511	0.658454
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07	0.05	0.06	0.61	0.83	0.41	0.175	0.02	0.525	0.13857	0.919465	0.06089	0.06433	0.06433	1	0.99755	0.66443
Er1	Q8R729	0.09	0.17	-0.27	-0.15	0.64	0.49	0.81	0.09	0.07</																

Fam8a1	G3UR04	1.03	-0.88	-0.52	0	-0.58	0.92	-0.8	0.21	3.98	-0.46	-0.45	0.5	4.37	0.16	1.1	0.79	0.03	0.985	1.6975	0.954433	0.346313	0.093419	1	0.96511	0.698156
Fam91a1	G3IUV3	-0.01	-0.06	0.13	0.03	0.06	-0.07	0.36	0	0.33	-0.44	0.14	-0.02	-0.07	-0.89	0.12	0.16	0.065	-0.2	-0.0075	0.690337	0.924476	0.981952	1	0.96975	0.99458
Fam98a	Q3T026	-1.12	-0.64	-1.13	-1.43	-0.45	-0.8	-1.18	-1.41	-0.24	-1.12	-1.12	-0.38	-0.22	-0.02	-0.89	1.28	0.12	0.4525	0.4775	0.661127	0.123751	0.180252	1	0.96511	0.775542
Fam98b	Q80V01	-2.02	-1.52	-1.5	-1.33	-1.49	-2.11	-1.02	-1.41	-0.83	-1.06	-1.41	-1.73	-1.31	0.27	-1.75	-1.25	0.085	0.335	0.5825	0.751422	0.227205	0.209263	1	0.96511	0.786218
Fam98c	E99C01	-1.29	-1.08	-1.62	-2.07	-1.31	-1.37	-1.68	-2.05	-0.52	-0.98	-2.08	-1.1	0.02	-0.73	-1.73	-1.55	-0.0875	0.345	0.5175	0.753537	0.374318	0.253017	1	0.96511	0.809524
Far1	O29J29	0.03	0.2	0.41	-0.46	1.25	0.44	1.05	-0.19	0.14	0.07	0.04	0.78	0.51	0.85	1	0.92	7.98E-01	0.4175	0.98	0.404038	0.134004	0.0025	1	0.96511	0.42382
Farp1	F8PU12	0.16	0.45	0.53	0.74	0.82	1.38	1.08	0.97	0.32	0.06	0.01	0.83	0.12	0.1	0.41	0.325	-0.2075	0.5375	0.183225	0.467122	0.0514	0.0005	1	0.96511	0.458454
Farp2	G91V58	0.74	0.5	-0.05	-0.1	0.53	0.57	0.55	0.41	-0.21	-1.25	0.19	0.68	-0.38	0.24	-0.09	0.55	0.2425	-0.42	-0.1925	0.306597	0.346601	0.527738	1	0.96511	0.908538
Farp3	O99M01	0.06	0.25	1.07	0.92	0.33	-0.17	1.04	0.88	0.78	0.5	1.25	-0.17	0.91	2.15	0.97	0.98	-0.055	0.015	0.6775	0.876952	0.967953	0.101115	1	0.96975	0.698156
Farp4	O80C07	-2.2	-2.57	-2.73	-1.13	-2.47	-2.21	-2.59	-1.12	-2.39	-2.15	-2.29	-2.12	-2.4	-2.17	-3.04	-2.89	0.08	0.2675	0.0325	0.827813	0.92477	0.912339	1	0.96511	0.986458
Farp5	G3UW46	-2.48	-2.45	-2.15	-1.74	-2.17	-2.45	-2.47	-2.45	-2.47	-2.45	-2.47	-2.45	-2.47	-2.45	-2.47	-2.45	-0.025	0.378949	0.401208	0.668825	0.984875	0.0005	1	0.96511	0.948925
Fasn	P19096	0.15	-0.09	0.14	0.12	0.02	0.32	-0.15	0.16	0.23	-0.11	0.24	0.23	-0.02	-0.11	0.03	0.12	0.0075	0.07	-0.0725	0.064561	0.688848	0.67919	1	0.96511	0.953269
Fastk2d	O29Z66	0.2	0.05	0.24	0.51	-1.22	0.2	-0.2	0.13	0.38	0.64	0.45	-0.19	0.98	-0.68	0.37	0.54	-0.5225	0.07	0.0525	0.141887	0.764583	0.8839	1	0.96511	0.979767
Fastk5t	Q7TMV3	0.004	0.63	0.19	-0.48	-0.16	-0.2	-0.32	-0.31	-0.36	-0.11	0.2	-0.71	-0.35	-0.32	-0.11	-0.75	-0.32	-0.5475	0.254743	0.202925	0.049133	1	0.96511	0.658454	
Fat1	F2Z4A1	0.1	0.63	-0.2	-0.33	0.55	0.19	-0.4	-0.32	0.55	-0.31	-0.46	0.32	0.74	0.31	0.1	0.09	-0.405	-0.025	0.26	0.888285	0.938204	0.380873	1	0.96975	0.859245
Fat3	E92K16	0.56	0.79	0.65	0.78	0.57	0.54	0.47	0.9	0.46	0.57	0.59	1.2	0.81	0.61	0.29	-0.165	-0.065	0.0325	0.271868	0.715602	0.891408	0.0005	1	0.96511	0.982143
Fat4	O29Z16	0.46	0.58	0.13	0.48	1.44	0.52	0.08	1.91	0.02	0.65	2.31	0.86	0.26	0.57	0.74	2.6	0.325	-0.295	0.38	0.50821	0.581182	0.508286	1	0.96511	0.902804
Fauc	Q3UM99	1.11	1.04	0.5	0.46	0.75	0.88	-0.07	-0.01	1.13	0.79	-0.09	1.06	0.68	1.74	-0.16	-0.19	-0.39	-0.055	-0.26	0.216262	0.866712	0.574081	1	0.96511	0.925754
Fbn1	O8QX29	-3.69	-2.73	-3.14	-4.72	-3.63	-3.76	-3.89	-2.68	-2.42	-1.73	-1.01	-3.51	-1.62	-4.84	-1.58	-1.72	-1.7	0.4025	0.13	0.838509	0.598813	0.887936	1	0.96511	0.980507
Fbn1	P31550	2.11	1.1	1.54	1.66	1.38	2.01	1.71	1.74	0.75	0.51	1.77	1.36	0.78	1.64	1.9	1.98	0.1075	0.055	-0.2775	0.674564	0.171447	0.491975	1	0.96511	0.897331
Fbn1	O8QW53	1.97	1.15	0.87	0.94	1.37	1.92	1.06	0.9	0.73	0.76	1.2	1.47	0.57	0.81	1.58	1.04	0.08	-0.1925	-2.33E-01	0.808055	0.542104	0.4531	1	0.96511	0.897531
Fbn1	O8879-2	0.06	-1.47	-1.09	-0.97	-1.52	-0.65	-0.92	-0.43	-1.2	-0.37	-0.6	-0.19	-1.95	-0.61	-0.83	-1.02	-1.025	0.3725	-0.235	0.973884	0.379966	0.579629	1	0.96511	0.927734
Fbn2	AD41Y7V1	-3.16	-3.82	-3.49	-3.21	-3.21	-3.27	-3.31	-3.55	-3.39	-3.16	-3.01	-3.01	-2.91	-3.57	-3.04	-3.8	0.085	0.2775	0.09	0.67444	0.220571	0.749178	1	0.96511	0.961014
Fbn1	G61554	-2.81	-3.12	-1.52	-1.48	-2.99	-3.14	-2.04	-2.39	-2.05	-0.62	-1.77	-2.69	-1.7	-3.25	-1.64	-1.75	-0.3575	0.5	0.1975	0.427655	0.401103	0.72444	1	0.96511	0.950838
Fbn1	G61555	-0.69	-1.13	-1.73	-1.63	-1.407	-1.007	-2.32	-1.85	-7.47	-1.63	-1.49	-6.78	-5.68	-13.45	-2.13	-2.23	-0.9875	1.7475	0.2175	0.77033	0.404222	0.944415	1	0.96511	0.991885
Fbn15	O31W61	-0.12	-0.59	-2.92	-2.64	-0.88	-0.12	-2.48	-2.75	-0.42	-2.34	-2.89	0.34	-0.91	-0.39	-3.53	-3.26	0.01	0.07	-0.455	0.990659	0.935836	0.636922	1	0.96975	0.942665
Fbn16	A2JRT6	-0.88	-0.75	-0.19	-0.01	-0.48	-0.56	0.18	0.1	-1.26	-0.68	-0.09	-0.67	-1.26	-0.77	-0.95	-0.27	0.1775	-0.2175	-0.33	0.582294	0.501719	0.295162	1	0.96511	0.825612
Fbn17	O9ZD41	-2.92	-2.84	-0.68	-0.13	-2.25	-2.02	-1.87	0.12	-1.62	0.21	0.19	-1.62	-1.81	-1.65	0.01	-0.36	0.1975	0.0225	0.59	0.866407	0.459174	0.382687	1	0.96511	0.860984
Fbn18	F8VQK6	-0.02	-0.48	-0.33	-0.43	-0.08	-0.42	-0.38	-0.14	-0.24	-0.13	0.53	-0.03	-0.88	-0.225	0.41	0.38	0.3875	0.89863	0.151997	0.43442	0.0005	1	0.96511	0.858558	
Fbn19	O88H16	-0.26	-1.46	0.31	-0.68	-1.25	-0.44	1.23	-0.24	-2.49	-1.85	1.51	-1.64	-0.86	-3.35	0.35	0.73	0.1975	-0.595	-0.26	0.748367	0.501579	0.708075	1	0.96511	0.965933
Fbn20	O9ZCV8	-1.24	-2.4	-0.56	0.32	-2.01	0.09	-0.44	0.06	-1.65	0.8	-0.36	-1.28	-0.52	-2.64	-0.5	-0.11	0.395	0.3475	0.0275	0.568432	0.63117	0.970085	1	0.96511	0.992767
Fbn21	O8H710	0.71	0.91	0.7	0.64	0.58	1.43	-0.34	0.37	1.67	-0.09	0.5	0.39	0.72	1.01	0.19	0.11	-0.23	-0.1225	-0.2325	0.521256	0.39817	0.727252	1	0.96511	0.859424
Fbn21	Q7TQJ2	-1.46	-1.29	0.65	0.78	0.57	-1.25	-0.28	0.13	0.17	-0.17	-0.1	-1.25	-1.18	-1.01	0.8	0.05	0.35	0.5975	0.911756	0.278791	0.244409	0.0005	1	0.96511	0.907331
Fbn21	Q7TPO1-3	-1.91	-2.24	-1.46	-1.15	-1.81	-0.48	-0.44	-1.14	-0.45	-1.15	-1.83	-0.04	-0.16	0.71	0.26	0.72	0.46	1.8825	0.087662	0.23429	0.000247	1	0.96511	0.270112	
Fbn21	O8DUW2	0.13	-0.35	0.88	0.96	-0.24	0.15	1.52	0.67	1.19	0.61	0.69	0	-1.3	-0.3	0.45	1.02	1.12	-0.3775	-0.4375	0.739597	0.456264	0.431959	1	0.96511	0.879165
Fbn21	O8YH01	-0.57	-0.5	-0.66	-0.98	-0.34	-0.76	-0.36	-0.84	-0.89	-1.34	-0.94	-0.75	-1.18	-1.02	-0.78	0.1025	-0.3025	-0.385	0.612669	0.172491	0.609975	1	0.96511	0.668066	
Fbn21	O7B185	-1.29	-1.58	-0.46	-0.38	-0.48	-0.17	0.23	0.48	0.05	0.29	0.03	1.31	0.39	0.09	2.09	1.43	0.15	0.04	0.694798	0.328032	0.465103	0.0005	1	0.96511	0.927734
Fbn21	O9DC63-3	-0.4	-0.59	-0.31	-0.96	-0.27	-0.5	-0.3	-0.53	-1.19	-1	-0.6	-0.59	-1.1	-1.03	-0.38	-0.49	0.165	-0.28	-0.185	0.406808	0.256041	0.485965	1	0.96511	0.895384
Fbn30	O8B111	-0.86	-0.79	-1.29	-0.83	-1.19	-0.8	-0.81	-1.07	-0.1	-0.37	-1.31	-0.68	0.13	-0.23	-1.11	-1.04	-0.025	0.3278	0.38	0.895403	0.281587	0.268031	1	0.96511	0.819742
Fbn30	Q3TQF0	-1.39	-1	0.89	0.67	-0.91	-0.91	0.72	0.55	-0.08	0.93	0.36	-1.3	0.73	0.42	0.5	0.44	0.07	0.185	0.73	0.915854	0.785747	0.198245	1	0.96511	0.78004
Fbn30	O8B8M0	-0.68	-0.31	-0.25	0.09	-1.19	-0.63	-0.48	0.41	0.41	1.2	0.52	-0.43	1.24	-1.35	0.46	-0.13	-0.185	0.7175	0.3425	0.602549	0.93488	0.20689	1	0.96511	0.907667
Fbn30	O8C4D0	0.08	0.14	0.32	0.11	0.1	0.12	0.34	0.08	0.1	0.21	0.34	0.08	0.1	0.18	0.1	0.025	0.400511	0.565838	0.0005	0.11	0.96511	0.99027	1	0.96511	0.996154
Fbn30	O6N560	0.13	0.92	0.73	0.49	0.97	1.21	0.46	0.41	1.3	0.64	0.8	1.24	1.36	1.21	0.57	0.57	0.3	0.2025	0.135	0.901793	0.398288	0.61447	1	0.96511	0.953676
Fbn30	O6PD16	-0.28	-0.5	-1.14	-0.01	-0.54	-0.58	-0.94	-0.53	-0.18	-1.13	-0.4	-0.18	-0.6	-0.23	-1.21	1.34	0.375	0.26	-0.1125	0.322388	0.80831	0.766761	1	0.96511	0.958635
Fbn30	A2A7H5	-1.19	-1.59	-0.45	-0.09	-0.12	-2.25	0.4	0.3	-1.82	-0.81	0.08	-2.06	-2.72	-1.3	-0.13	-0.21	0.43	-0.2225	-0.16	0.520621	0.708999	0.81153	1	0.96511	0.972642
Fbn30	O8B3B1	-1.05	-0.48	-0.38	-0.34	-0.1	-0.47	-0.23	0.48	0.05	0.29	0.03	1.31	0.39	0.09	2.09	1.43	0.15	0.04	0.694798	0.328032	0.465103	0.0005	1	0.96511	0.927734
Fbn30	O9ZU74	-0.67	-0.55	-0.88	-0.83	-0.13	-0.49	-0.57	-0.7	-0.27	-0.13	-0.91	-0.73	-0.24	-0.07	-0.41	-0.54	0.26	0.2225	0.4175	0.184683	0.345938	0.695186	1	0.9651	

Foaj3	Q8BUR3-2	-2.03	-2.18	-1.75	-1.23	-0.86	-3.15	-0.22	0.82	0.31	0.08	0.59	-1.72	1.62	0.34	-2.83	1.57	0.945	1.6125	1.9725	0.246797	0.012516	0.064587	1	0.95511	0.66433
Foak1	P4212B	-1.9	-2.77	-2.48	-3.47	-2.42	-2.25	-3.78	-2.52	-2.35	-0.22	-2.59	-1.9	-1.41	-1.99	-2.35	-2.75	-0.0875	0.89	0.53	0.844005	0.148886	0.22732	1	0.95511	0.78747
Foak2	Q3UCU1-2	-1.21	-1.16	-1.61	-2.05	-0.4	-1.48	-1.42	-2.25	-1.62	-0.33	-1.96	-1.02	-1.67	-0.8	-1.73	-2.1	0.12	0.2	-0.0675	0.768407	0.574017	0.043448	1	0.95511	0.97625
Foak1	Q9R180	-0.31	-0.11	0.06	-0.7	-1.16	-1.41	-1.67	-0.06	0.64	-1.01	-0.7	0.12	0.14	-0.1	-0.08	-0.79	-0.78	0.0275	0.0575	0.074720	0.944313	0.83739	1	0.95511	0.975831
Foak3	Q9WVW4	0.21	-0.69	-0.6	-0.39	-2.2	0.18	-0.32	0	1.91	-0.86	-0.51	-0.75	2.55	0.61	-0.66	-0.37	-0.2175	0.315	0.9	0.686385	0.619227	0.10659	1	0.95511	0.786218
Foak1	Q8A042B	-1.74	-2.14	-3.35	-2.67	-1.46	-2.12	-2.75	-4.09	-2.35	-2.23	-3.02	-1.99	-1.6	-2.37	-2.91	-3.08	-0.13	0.0775	-0.015	0.873906	0.844458	0.973662	1	0.95511	0.992946
Foak1	Q3TQ82	0.05	0.59	0.81	0.81	0.21	0.43	0.09	0.63	0.68	0.95	0.86	0.62	0.79	1.13	0.23	0.21	-0.3875	0.05	-0.1325	0.055739	0.769745	0.00073	1	0.95511	0.91496
Fras1	Q8OT14	-0.52	-0.03	0.04	-0.36	-0.42	0.08	-0.23	-0.46	0.05	0.03	-0.54	-0.4	0.63	0.73	-0.37	0.17	0.12	-0.0625	0.4575	0.623431	0.780797	0.147562	1	0.95511	0.746406
Fras1	P97376	-2.19	-3.25	-0.52	-0.4	-3.24	-3.21	0.1	-0.17	-1.98	-0.54	-0.56	-3.26	-2.28	-0.71	-0.68	-0.25	-0.04	0.005	0.61	0.690044	0.955329	0.419843	1	0.95511	0.875558
FrmD3	Q8BH04	1.54	2.96	0.11	0.88	2.96	2.27	0.93	0.4	1.79	1.19	-0.11	1.65	0.14	3.21	0.52	0.51	0.1325	-0.1875	-0.2925	0.688375	0.790528	0.741273	1	0.95511	0.958796
FrmD4	H3B271	-0.02	-0.11	-0.05	-0.25	-0.05	-0.1	-0.1	-0.25	0.69	-0.1	-0.25	0.98	0.43	0.88	0.02	0.21	0.12	0.04	0.4425	0.578779	0.143419	0.003356	1	0.95511	0.608156
FrmD4b	Q6ZQ04	-0.28	0.27	-1.76	-0.04	-0.58	0.23	-0.34	-2.25	1.55	-3.79	-0.9	-0.62	0.88	-0.06	-1.51	-1.85	0.2175	0.0565	0.575851	0.927662	0.528447	1	0.95511	0.908655	
FrmD5	A2AR56	0.44	0.35	-0.35	-0.01	0.98	0.14	-0.14	-0.4	0.84	-0.01	-0.26	0.51	0.81	0.96	0	-0.16	0.0375	0.1625	0.295	0.91168	0.603358	0.391431	1	0.95511	0.865375
FrmD5	Q3UFK8	0.78	0.67	0.4	0.49	0	0.58	0.26	0.35	2.44	0.4	0.24	0.41	2.95	0.35	0.28	0.09	-0.2875	0.2875	0.3325	0.511625	0.564621	0.5981	1	0.95511	0.930093
FrmD1	A2AX84	-2.79	-2.74	-0.36	0.15	-2.17	-2.67	-1.12	-0.35	-2.41	0.78	-0.01	-1.9	-2.4	-2.21	-0.12	-0.54	-0.1425	0.55	0.1325	0.865441	0.573567	0.870328	1	0.95511	0.979626
FrmD3	A0414Q0	0.95	1.53	0.74	0.76	0.07	1.17	0.45	0.86	1.23	0.47	0.57	0.8	1.3	1.18	0.67	0.0975	-0.0575	0.1375	0.863811	0.800819	0.540525	1	0.95511	0.912112	
FrmD4	A04S89M8	1.14	0.66	0.39	0.47	1.13	1.06	0.41	0.41	0.57	0.49	0.53	0.5	0.89	0.81	0.13	0.23	0.0875	-0.1425	-0.15	0.743474	0.505776	0.59336	1	0.95511	0.929843
Frs12	B1AXV0	1.55	0.83	1.86	0.63	1.22	2.21	2.92	1.58	1.15	1.63	1.79	1.85	1.07	0.63	2.58	2.57	0.765	0.3875	0.495	0.111188	0.259077	0.371147	1	0.95511	0.859424
Frs12	Q8C180	1.06	1.74	1.08	0.9	1.59	1.01	1.22	0.91	1.32	1.31	0.93	1.36	1.37	1.91	1.2	1.32	-0.0125	0.305	0.255	0.960244	0.883966	0.355541	1	0.95511	0.855029
Frs3	Q91W10	0.55	1.08	1.26	0.95	1.29	0.62	1.06	1.1	0.56	1.12	1.14	1.24	1.16	1.16	1.0025	-0.245	-0.4125	0.783755	0.362166	0.326815	1	0.95511	0.843799		
Fry	A04S8FMP	-0.26	-0.28	-0.25	-0.24	-0.02	-0.26	-0.02	-0.14	-0.19	0.08	0.01	-0.15	-0.02	0.12	-0.33	-0.07	0.1475	0.195	0.1825	0.321336	0.242974	0.33075	1	0.95511	0.845601
Fry	A04D59VF	0.03	0.17	-0.22	0.43	0.79	-0.35	0.53	-0.21	0.4	1.06	0.79	0.11	-0.03	0.152	-0.01	0.37	0.0875	0.4875	0.36	0.774977	0.095058	0.354815	1	0.95511	0.855029
Fry1	F8V005	-0.03	-0.26	0.37	-0.76	-0.43	-0.21	-0.15	-0.83	0.08	-0.55	-0.64	-0.31	-0.04	-0.09	-1	0.75	-0.3975	0.0675	-0.0475	0.858934	0.769398	0.867342	1	0.95511	0.978457
Frs1	Q61553	0.69	-0.15	0.61	0.84	-0.08	0.87	1.52	1.14	0.19	0.82	0.66	0.72	-0.04	-0.18	0.82	0.52	0.365	0.1	-0.1175	0.356389	0.717272	0.74235	1	0.95511	0.958976
Fsd1	Q7TPM6	0.61	0.74	0.32	0.38	0.73	0.26	0.33	0.53	0.51	0.44	0.45	0.83	0.06	0.9	0.2	0.19	-0.05	0.045	0.1175	0.788079	0.813883	0.487601	1	0.95511	0.887732
Fsd1	E0CX21	-0.38	-0.4	0	-0.12	-0.42	-0.37	-0.04	-0.21	-0.34	-0.08	-0.03	0	-0.27	-0.53	-0.31	-0.38	-0.035	-0.1125	-0.1475	0.843773	0.594921	0.447014	1	0.95511	0.884817
Fsd1	G5TE31	-0.7	0.61	-0.67	-0.52	-0.4	-0.65	-0.46	-0.72	-0.03	-0.74	-0.52	-0.49	-0.15	0.43	-0.63	-0.04	-0.0375	0.125	0.2225	0.922218	0.714993	0.554308	1	0.95511	0.916796
Ft1	P05528	-0.66	-1.19	-0.86	-0.81	-0.9	-0.95	-0.59	-0.83	-1.71	-0.64	-0.95	-1.2	-1.56	-0.98	-0.94	-0.6	-0.124	-0.0075	0.754	0.422838	0.849101	0.313556	1	0.95511	0.986458
Ft1	Q9CPW4	-0.31	-1.15	-1.43	-1.34	-2.42	-3.1	-0.77	-1.99	-1.42	-0.57	-2.88	-1.13	-2.17	1.18	0.17	0.12	0.07	0.0975	0.5525	0.935988	0.147487	0.566941	1	0.95511	0.928744
Ft1	Q8BWG1	-1.28	-1.64	-2.74	-2.74	-1.32	-1.2	-2.34	-2.86	-1.55	-1.41	-2.73	-1.3	-1.49	-1.11	-2.91	-2.7	0.17	0.3525	0.0475	0.738327	0.460448	0.295617	1	0.95511	0.989687
Ft1j3	F6Q475	-1.42	-1.28	0.16	1.62	-3.22	-1.37	-0.15	0.5	-0.84	0.33	0.35	0.74	-0.35	-2.5	1.25	0.81	-0.605	0.005	0.0325	0.485862	0.994391	0.97364	1	0.95511	0.992946
Ft1j3	Q9E089	0.66	0.7	0.27	0.45	0.76	0.35	0.31	0.34	0.29	0.37	0.11	0.41	0.66	0.75	0.49	0.74	-0.08	-0.225	0.14	0.670604	0.290793	0.427397	1	0.95511	0.891144
Ft1j3	Q3TUE1	-0.85	-1.53	-0.94	-3.93	-0.07	-4.17	-0.45	-0.96	-1.23	-1.84	-3.57	-3.84	-3.7	-3.16	-4.42	-4.96	-0.2075	0.0825	0.271218	0.338512	0.333514	1	0.95511	0.912112	
Fuc3	A2A172	-0.22	-0.81	-2.02	-1.22	-1.13	-0.57	-1.99	-2.11	-0.29	-1.01	-1.53	-0.6	-0.09	-0.29	-1.23	-2.24	-0.3825	0.21	0.105	0.439933	0.633417	0.854243	1	0.95511	0.976225
Fuc3	Q9U11	0.08	0.42	0.22	0.04	0.37	0.6	0.31	0.28	0.88	0.63	0.07	0.22	0.06	3.27	0.07	0.02	0.2	0.26	0.665	0.251984	0.28526	0.375651	1	0.95511	0.859611
Fund1	H3B211	-0.33	-0.49	0.37	0.34	-0.54	-0.1	0.74	0.21	0.27	0.22	0.12	-0.28	0.72	-0.05	0.68	0.76	-0.14	-0.135	0.31	0.668012	0.588388	0.294813	1	0.95511	0.826512
Fund1c2	Q9D643	0.3	0.08	-0.08	0.62	0.12	0.22	0.21	0.35	0.17	-0.26	0.22	0.69	0.14	0.28	-0.21	0.06	0.07	0.125	0.811035	0.792169	0.460618	1	0.95511	0.917212	
Fund1	Q8R2K1	-1	-0.61	-0.9	-1.01	-1	-1.14	-1.2	-1.15	-0.98	-0.94	-1.32	-0.8	-1.37	-0.36	-1.37	-1.08	-0.33	-0.13	-0.165	0.098936	0.513902	0.556609	1	0.95511	0.917092
Fus	Q8C709	-3.02	-4.38	-4.19	-4.23	-3.49	-4.12	-3.15	-4.6	-3.5	-2.58	-5.03	-3.36	-2.48	-2.28	-1.43	-3.84	0.115	0.3375	1.4475	0.785759	0.546867	0.024827	1	0.95511	0.632054
Fut11	Q8BH09	-0.75	-0.77	-0.8	-0.85	-0.02	-0.42	-0.61	-1.01	-0.3	-1.02	-1.22	-0.81	1.75	0.02	-0.28	-0.35	0.2775	-0.045	1.0775	0.242636	0.84541	0.043359	1	0.95511	0.658454
Fut8	Q9W552	-1.17	-2.15	-1.33	-1.08	-1.16	-0.67	-0.29	-1.32	-0.77	-1.21	-1.22	-1.53	-0.65	-1.55	-0.83	-0.57	0.4625	0.25	0.5325	0.293608	0.489369	0.137081	1	0.95511	0.717233
Fut5	Q8B819	-1.42	-2.05	-0.64	-2.05	-0.4	-1.27	-0.99	-2.55	-1.25	-0.99	-2.55	-1.25	-0.99	-2.55	-1.25	-0.99	-0.25	0.121	0.56	0.414904	0.856422	0.736074	1	0.95511	0.945454
Fu1	P70213	-1.51	-1.6	-0.18	-0.52	-2.84	-2.04	0.53	-0.81	-1.36	0.37	0.19	-2.03	-0.54	-0.87	0.58	0.6	-0.1925	-0.015	-0.115	0.838457	0.903565	0.912736	1	0.95511	0.986458
Fun1	C35943	1.04	1.18	0.24	0.81	1.19	1.02	0.22	0.66	0.94	-2.06	1.18	1.21	0.89	1.44	0.42	0.15	-0.045	-0.5	-0.0925	0.879455	0.507531	0.791057	1	0.95511	0.969105
Fwr1	Q61584-3	-0.57	-0.79	-0.59	-0.69	-0.35	-0.88	-0.64	-0.57	-0.59	-0.51	-0.73	-0.36	-0.18	0.15	0.05	-0.3	0.05	0.1125	0.59	0.771334	0.514006	0.012387	1	0.95511	0.973077
Fw2	Q9F585	-0.44	-0.25	-0.12	-0.29	-0.03	-0.29	-0.03	-0.29	-0.03	-0.29	-0.03	-0.29	-0.03	-0.29	-0.03	-0.29	-0.03	0.125	0.495	0.825472	0.299236	0.712347	1	0.95511	0.921712
Fwy1	A04U01RP	0.61	0.98	0.94	0.94	1.08	0.03	1.13	0.43	0.78	0.202	0.36	0.63	0.42	1.67	0.79	0.67	-0.2	0.08	0.02	0.484404	0.827413	0.946592	1	0.95511	0.992376

Gemin5	A2AF09	-0.94	-1.44	-2.55	-2.5	-1.02	-1.06	-2.53	-2.04	-1.35	-1.95	-2.44	-1.22	-1.29	-1.11	-2.55	-2.41	0.195	0.1175	0.0175	0.699648	0.797974	0.972481	1	0.995511	0.992865	
Gemin7	D32684	0.29	0.81	-1.18	-1.17	0.02	1.28	-1.54	-0.81	0.75	0.5	-0.76	0.04	0.94	-0.12	0.05	-0.84	0.05	0.445	0.32	0.94424	0.43338	0.582023	1	0.995511	0.927734	
Gert1	Q8X027	-0.75	-0.84	-0.33	-0.66	-0.28	-0.22	-0.42	-0.41	0.19	-0.22	-1.16	-0.87	0.99	-0.2	0.16	0.11	0.6235	0.13	0.91	0.17767	0.690332	0.120264	1	0.995511	0.566767	
Gert3	OS4984	-0.68	-0.41	-0.44	-0.69	0.05	-0.56	-0.34	-0.78	-1.01	-0.45	-0.73	-0.65	-0.87	-0.54	-0.71	0.45	0.1475	-0.155	-0.0875	0.502705	0.430085	0.652671	1	0.995511	0.947633	
Gert4	Q9U1H7	-0.3	-0.21	-0.18	-0.14	-0.7	-0.51	-0.78	-0.63	-0.56	-0.33	-0.37	-0.73	-0.5	-0.36	-0.66	-0.4475	-0.0675	-0.35	-0.3514	0.0453	0.57693	0.674038	1	0.995511	0.674038	
Gfap	Q9J995	1.36	0.87	0.51	0.54	0.97	1.05	0.46	0.37	0.97	0.27	0.62	1.07	0.98	0.93	1.16	-0.13	-0.1075	-0.0875	0.2875	0.69068	0.755608	0.773305	1	0.995511	0.822204	
Gfap	Q9J995-2	-0.23	0.31	-0.17	-0.17	-0.23	-0.41	-0.73	-0.41	-0.28	-0.42	0.43	0.13	-0.56	-1.04	-0.1	0.75	-0.475	-0.1	-0.4475	0.354251	0.755072	0.80231	1	0.995511	0.822204	
Gfif	P56213	0.5	-0.22	-0.23	-0.76	-0.49	1.17	-0.68	-0.7	0.89	-0.25	-0.55	-0.28	2.22	-0.76	0.09	0.03	0.0025	0.27	0.5575	0.995848	0.496048	0.388179	1	0.995511	0.86347	
Gfml	Q8X005	1.36	0.45	0.78	0.63	0.14	1.54	1.17	0.69	0.05	-0.04	0.89	1.15	0.35	-0.3	0.8	0.81	0.08	-0.2925	-0.39	0.81828	0.413351	0.257053	1	0.995511	0.811777	
Gfml2	Q8X204-3	0.68	0.52	0.41	0.32	0.57	0.74	0.89	0.31	0.5	0.29	0.38	0.55	0.46	0.71	0.13	0.67	0.145	-0.0025	0.01	0.446283	0.761041	0.962185	1	0.995511	0.95927	
Gfml3	Q3UJH02	-0.11	0.04	-0.33	-0.16	-0.28	-0.22	-0.47	-0.38	0.31	0.45	-0.38	-0.26	-0.61	0.38	-0.15	-0.37	0.0005	-0.28	0.537768	0.980233	0.297188	1	0.995511	0.826161		
Gfml2	Q9CYH5	-0.42	0.46	0.41	0.61	0.64	0.22	0.77	0.36	0.45	0.49	0.61	0.36	-0.04	0.9	-0.11	0.09	0.0025	0.0005	-0.31	0.00264	0.987633	0.774145	1	0.995511	0.822394	
Gfml1	P47856-2	-0.08	-0.11	-0.28	-0.5	-0.06	-0.17	-0.11	-0.12	-0.97	0.52	-0.37	-0.07	-0.93	-0.5	-0.43	-0.13	0.1275	0.005	-0.255	0.436252	0.867599	0.291714	1	0.995511	0.825497	
Gfml1	D6R004	-0.61	-1.82	-1.75	-1.53	-2.43	0.45	-1.37	-1.42	-1.31	-0.55	-2.18	-0.46	0.71	-2.69	-0.74	-1.54	0.235	0.3025	0.2275	0.697839	0.514323	0.710821	1	0.995511	0.957819	
Gfml2	Q80842	-0.21	-0.5	0.19	0.23	-0.03	-0.03	-0.54	-0.15	-0.32	0.62	-0.01	0.08	-0.22	0.28	0.24	-0.15	-0.115	0.165	0.02	0.626063	0.553101	0.737021	1	0.995511	0.859245	
Gfml3	P23591	0.66	0.66	0.45	-0.59	0.95	1.32	0.54	-0.45	-0.22	-1.88	-0.4	0.73	0.31	-0.65	-0.79	-1.65	-0.5025	-0.4275	0.405851	0.386624	0.9273	1	0.995511	0.822339		
Gfml3	Q8R049	0.33	0.09	0.18	0.02	-0.1	0.39	0.3	0.04	0.05	0.29	0.21	0.45	0.09	0.18	0.1	0.13	0.0625	0.1005	-0.065	0.708536	0.561075	0.722229	1	0.995511	0.958398	
Gfml2	Q6P566	-0.94	-0.25	-1.17	-0.99	-0.59	-0.88	-0.88	-0.92	-1.02	-0.15	-0.74	-0.58	-0.71	0.04	-1.43	-1.48	0.02	-0.15	-0.0575	0.93179	0.455082	0.884734	1	0.995511	0.975767	
Gfml2	A2A9W7	0.16	0.52	0.15	0.22	0.57	0.11	-0.03	-0.1	-0.25	0.15	0.14	0.36	0.02	0.22	-0.03	-0.16	-0.0725	-0.1625	-0.26	0.702023	0.430492	0.199756	1	0.995511	0.78004	
Gfml1	EX2204	-1	-2.1	-1.85	-0.8	-1.45	-1.67	-1.12	-0.98	-1.96	-0.46	-1.37	-1.33	-2.49	-1.54	-1.75	-1.74	0.1825	0.1575	-0.6925	0.538681	0.708738	0.094237	1	0.995511	0.698156	
Gfml1	Q9Y078	-0.54	-0.67	-0.57	-0.63	-0.93	-0.46	-0.89	-0.99	-0.56	0.14	-0.69	-0.76	-0.3	-1.15	-1.25	-1.03	-0.215	0.135	-0.33	0.237335	0.573185	0.210616	1	0.995511	0.786218	
Gfml1	Q920L8-2	-1.99	-3.48	-0.82	-0.01	-4.35	-1.26	0.43	-0.49	-2.06	-1.54	-0.46	-1.85	-0.51	-5.5	-0.93	-0.66	0.1575	0.0975	-0.325	0.890784	0.897224	0.797247	1	0.995511	0.969727	
Gfml1	Q9V700	-0.73	-1.03	-0.43	-0.17	-0.67	-0.84	-0.43	-0.45	-1.32	-0.69	-0.34	-0.7	-1.23	-0.96	-1.05	-1.02	-0.0075	-0.1725	-0.475	0.97391	0.550742	0.070392	1	0.995511	0.668066	
Gfml1	Q60928	1.11	1.11	1.68	1.69	1.25	0.32	1.97	1.86	1.07	0.76	1.29	0.78	0.91	0.73	1.03	1.19	-0.0025	-0.8525	-0.4825	0.810327	0.089657	0.565412	1	0.995511	0.661738	
Gfml1	Q92A20	0.81	0.1	1.1	0.05	0.56	0.22	0.54	0.32	0.32	0.18	0.67	0.85	0.11	-0.17	1.25	1.62	-0.005	0.01	0.1875	0.706322	0.973998	0.693976	1	0.995511	0.955729	
Gfml1	Q9J9P7	0.37	0.57	0.52	0.43	0.4	1.04	0.57	0.52	-0.19	-0.11	0.54	0.86	-0.13	0.3	0.52	0.86	0.2625	-0.1975	-0.085	0.208301	0.476109	0.731729	1	0.995511	0.958635	
Gfml1	Q9J9I23	-0.65	-0.35	-0.05	0.0	-0.5	-0.36	-0.54	0	0.68	0.7	-1.1	-0.89	-0.17	0.58	-0.07	-0.0875	0.01	-0.0875	0.11	0.68	0.690001	0.817891	0.065506	1	0.995511	0.664936
Gfml1	Q9J9V19	0.69	0.52	0.65	0.08	-0.09	1.02	0.4	0.29	1.64	0.44	0.95	0.82	1.93	0.5	0.14	0.41	-0.505	0.2525	0.035	0.138147	0.375985	0.390071	1	0.995511	0.989887	
Gfml1	Q9CPV6	-0.68	-0.81	-2.3	-2.04	-0.05	-0.62	-0.49	-0.42	0.71	0.13	0.4	0.62	0.28	0.4	0.1	0.19	0.0025	0.0005	-0.225	0.513197	0.50116	0.421199	1	0.995511	0.989878	
Gfml1	Q9Y078	-0.63	-0.58	0.16	0.31	-0.12	-0.61	0.33	0.26	-0.34	0.23	0.16	-0.35	-0.49	-0.28	0.02	0.31	0.15	0.075	0.640316	0.717188	0.8909123	1	0.995511	0.972708		
Gfml1	Q9Y9M1	-0.69	0	-0.06	-0.09	-0.6	-0.54	-0.64	-0.36	0.26	-0.07	-0.25	-0.27	0.5	0.6	0.7	-0.47	-0.325	0.1275	0.19	0.137448	0.587655	0.60454	1	0.995511	0.932185	
Gfml2	Q6Y7W8	-1.57	-1.86	-1.41	-1.38	-0.77	-1.16	-1.66	-1.41	0.02	-0.89	-1.27	-1.4	2.13	-1.4	1.43	-1.71	0.195	0.67	1.6675	0.433152	0.57626	0.08575	1	0.995511	0.691619	
Gfml1	Q920D0	-0.1	0.13	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	0.0025	0.313386	0.129122	0.990214	1	0.995511	0.996154	
Gfml1	Q8R5M0	0.29	0.31	-1.99	-1.62	1.64	1.28	-1.96	-1.54	0.5	-0.52	-1.19	1.53	0.96	1.56	1.17	-0.8	0.6075	0.8325	1.475	0.548438	0.298139	0.069262	1	0.995511	0.667733	
Gfml1	Q6RFF6	0.65	0.33	0.85	0.52	0.24	0.83	0.7	0.62	0.51	-0.07	0.67	0.52	0.52	0.16	0.55	0.66	0.01	-0.18	-0.195	0.960147	0.440541	0.443546	1	0.995511	0.883549	
Gfml2	E9VPA6	-0.42	-0.94	-0.19	-0.47	-0.95	-0.38	-0.49	-0.22	0.01	-0.72	-0.05	0.38	0.25	-0.55	-0.08	0.67	-0.005	0.22	0.2425	0.982425	0.994393	0.402987	1	0.995511	0.870608	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1.01	1.08	1.24	1.06	0.57	0.29	-0.49	-0.54	0.51	0.13	0.0025	0.0005	-0.158898	0.682896	0.927178	0.927178	1	0.995511	0.972708	
Gfml1	P23242	-0.06	-0.21	0.37	0.19	-0.57	-0.17	1																			

GOLGA78	Q90428	1	1.28	1.14	1.17	1.1	1.33	1.11	1.03	1.41	1.26	1.08	1.26	1.35	0.66	0.91	1.01	-0.005	0.105	-0.165	0.97426	0.538193	0.443158	1	0.995511	0.883549	
Golg1	E9P2V8	-1.26	-1.77	-1.79	-1.36	-0.87	-1.41	-1.35	-1.49	-1.53	-1.84	-1.49	-1.65	-1.15	-1	-0.91	-1.17	0.265	0.175	0.4875	0.247396	0.490311	0.204136	1	0.995511	0.658454	
Golg14	D3YVW2	-0.49	0.12	-0.16	0.4	0.07	-0.4	0.17	-0.05	-0.16	0.75	-0.05	-0.2	0.94	-0.3	0.2	0.09	0.245	0.2925	0.395	0.246868	0.319573	0.37973	1	0.995511	0.792722	
Golg2	E9P2J6	0.23	-0.14	-2.65	-2.53	0.38	0.12	-1	-2.05	-0.63	-1.62	-2.37	0.11	-0.04	-0.26	-1.64	-2	0.41	0.145	0.2875	0.650406	0.864127	0.72589	1	0.995511	0.958398	
Golg13	Q5CRA5	-1.44	-1.96	-0.71	-1.13	-1.49	-1.23	-1.12	-1.26	-0.77	-0.6	-1.19	-1.5	0.41	-1.92	-0.93	-1.15	0.035	0.295	0.4125	0.899767	0.383487	0.429995	1	0.995511	0.879165	
Golg13	H3B0T7	-2.06	-2.25	-2.91	-2.56	-2.26	-2.54	-1.95	-3.2	-2.43	-2.97	-3.02	-1.94	-2.71	-1.8	-3.95	-3.09	-0.0425	-0.145	-0.4425	0.893667	0.648745	0.345459	1	0.995511	0.84849	
Golg15	Q5CR60	-0.77	-1.18	-1.38	1.3	-0.71	-1.51	-0.77	-1.03	-2.1	-1.3	-1.71	-1.96	-1.44	-0.45	-1.63	-0.47	0.0425	-0.0975	0.4425	0.027339	0.682174	0.195914	1	0.995511	0.78004	
Golg6	Q8B806	-0.8	-0.96	-0.79	-0.94	-0.51	-0.83	-0.59	-0.89	-0.86	-0.36	-0.76	-0.48	-0.46	-0.56	-1.1	-1.05	0.0675	0.2575	0.08	0.688572	0.19007	0.178233	1	0.995511	0.958398	
Golg6	Q8B8M2	-0.55	0.08	-0.2	-0.38	-0.28	-0.16	-0.07	-0.28	0	1.33	-0.31	-0.43	-0.01	0.67	0.08	-0.34	0.205	0.41	0.3625	0.340704	0.32782	0.206911	1	0.995511	0.785338	
Goras1	Q91X51	0.01	0.2	0.02	0.15	0.28	-0.22	0.17	0.07	0.08	0.69	-0.37	-0.05	-0.43	0.41	0.64	0.73	-0.01	0.0025	0.2525	0.935445	0.992048	0.390529	1	0.999285	0.865375	
Goras2	A2JAT8	-1.69	-1.63	-0.15	-0.25	-1.58	-0.88	-1.72	-0.75	-1.42	-0.88	-1.42	-0.84	-1.42	-0.84	-1.42	-0.84	-0.25	0.2925	0.395	0.689329	0.945639	0.388925	1	1.000755	0.996154	
Gori1	Q8B630	-0.47	-1.44	-2.04	-2.15	-0.59	-0.75	-0.82	-1.3	-0.68	-2.12	-1.82	-0.81	-0.48	-0.84	-1.43	-0.7025	0.1875	0.075	0.075847	0.68647	0.907079	0.779779	1	0.995511	0.626806	
Gosr2	A2A90	1.04	0.94	1.48	1.93	1.51	0.32	1.36	1.8	1.38	2.66	1.2	1.24	1.89	1.6	2.47	2.29	-0.1	0.2725	0.715	0.789947	0.499553	0.043469	1	0.995511	0.658454	
Gosr1	P05201	-0.68	0.74	-0.51	-0.04	-0.79	-0.96	-0.28	0.06	-1.34	-0.45	-0.51	-0.79	-1.45	-0.96	-0.81	-0.81	1.966	-0.16	-0.28	-0.52	-1	0.319161	0.060406	1	0.995511	0.666433
Gosr2	P05202	0.78	0.57	-0.52	0.23	0.29	0.86	-0.35	0.05	0.35	-0.14	-0.32	0.46	0.06	0.16	-0.81	-0.67	-0.0525	-0.1775	-0.51	0.888328	0.801849	0.12024	1	0.995511	0.721448	
Gpal1	Q9WTC3	-0.77	-1.15	-0.54	-0.33	-0.48	-0.51	-0.58	-0.58	-0.59	-0.12	-0.69	-0.33	-0.45	-0.52	0.46	0.1625	-0.0975	0.7225	0.0467	0.732078	0.023147	0.023147	1	0.995511	0.622925	
Gpalp1	Q69C28	-1.8	-3.96	-3.09	-2.64	-2.69	-4.48	-3.52	-4	-3.97	-1.66	-2.87	-3	-3.84	-2.76	-3.28	-1.12	0.8	0.4758	0.3725	0.324072	0.354978	0.420074	1	0.995511	0.875758	
Gpam	A00A48A4	0.09	0.76	0.83	0.9	0.34	0.27	0.98	1.26	0.66	1.55	1.64	0.33	0.17	0.68	0.37	0.14	0.0675	0.4	0.195	0.823935	0.289716	0.670491	1	0.995511	0.925258	
Gpact1	Q8C0N2	0.2	0.38	0.2	1.04	0.21	0.13	0.35	1.16	0.03	2.01	-0.15	0.37	-0.21	0.67	0.37	0.296	0.0075	0.11	0.075	0.989421	0.824421	0.819184	1	0.995511	0.927768	
Gpact4	Q8C2C8	-0.64	-0.03	-0.78	-0.8	-0.13	-0.34	-0.24	-0.64	0.54	-0.69	-0.62	-0.78	1.1	0.29	0.43	-0.58	0.215	0.165	0.8625	0.332682	0.64732	0.049156	1	0.995511	0.658454	
Gpacth2	MQQW11	-0.02	0.04	0.71	-0.31	-0.54	-0.85	-1.24	-0.35	0.46	1.88	0.17	-0.26	1.15	0.73	0.35	-0.43	-0.85	0.4575	0.345	0.016343	0.351247	0.384071	1	0.995511	0.860984	
Gpacth2	Q6P656	-0.14	-0.7	2.51	1.22	-0.77	-0.55	1.16	1.92	0.18	1.6	1.13	-0.22	0.43	0.94	1.17	3.98	-0.2825	-0.05	0.9075	0.747488	0.947107	0.538273	1	0.995511	0.856645	
Gpacth8	A2A6A1	0.94	0.74	-0.28	0.02	-0.5	0.48	-1.36	0.12	1	0.67	-0.9	0.07	1.89	0.38	-0.2	-1.06	-0.67	-0.145	-0.1025	0.171291	0.760445	0.889856	1	0.995511	0.979293	
Gpactp1	Q8WVW3	-1.88	-1.72	0.45	-0.18	-2.41	-3.04	-0.75	0.49	0.34	-0.21	1.6	-2.41	1.24	-0.47	-0.11	-0.1	-0.22	0.6625	0.5772	0.828529	0.475476	0.147722	1	0.995511	0.746406	
Gpc1	Q9O2F2	0.07	0.15	-0.15	0.09	0.04	0.09	-0.2	-0.18	0.47	0.21	0.09	0.29	0.33	0.64	-0.42	-0.33	-0.1025	-0.225	0.015	0.528743	0.220422	0.957842	1	0.995511	0.992636	
Gpc4	P51655	0.73	1.47	0.52	0.51	1.11	0.96	0.56	0.75	0.75	0.32	0.56	1	0.26	0.62	0.35	0.06	0.0375	-0.5	-0.485	0.887041	0.959816	0.106817	1	0.995511	0.703417	
Gpc5	Q8CAL5	0.54	0.71	0.85	0.66	0.65	0.91	0.62	0.3	0.98	0.79	1.08	1.11	1.11	0.22	0.63	0.85	-0.07	0.13	0.0125	0.703627	0.108784	0.958185	1	0.995511	0.992636	
Gpc6	Q8CRK6	0.24	0.14	0.54	0.57	1	0.51	-0.3	0.07	0.27	0.102	0.68	0.87	0.01	0.61	0.4	0.1475	0.3375	-0.11	0.63339	0.104533	0.651183	1	0.995511	0.941132		
Gpcp1	Q8CUL1	-0.15	-0.19	-0.19	-0.61	-1.09	-1.22	-0.15	-0.23	-1.17	-0.33	-1.17	-0.33	-1.17	-0.33	-1.17	-0.33	-1.17	0.05	0.015	0.885502	0.802282	0.921154	1	0.995511	0.992478	
Gpd1	P13707	0.56	-0.01	0.23	-0.02	0.31	0.32	-0.5	-0.06	-0.04	0.25	-0.22	0.19	-0.09	-0.01	-0.32	-0.42	-0.2475	-0.145	-0.4	0.307484	0.884551	0.949596	1	0.995511	0.698156	
Gpd1	Q3U10U	-0.35	-0.5	-0.32	-0.46	-0.52	-0.24	-0.35	-0.15	-0.76	-0.77	-0.44	-0.3	-0.86	-0.35	-0.75	-0.81	0.0925	-0.16	-0.285	0.559078	0.399753	0.169795	1	0.995511	0.761572	
Gpd1	Q6A521	0.33	0.58	0.85	0.85	0.26	0.61	0.45	0.45	0.48	0.77	0.33	0.79	0.13	-0.05	0.04	0.25	-0.14	-0.325	-0.5825	0.482147	0.192077	0.017809	1	0.995511	0.602211	
Gph1	A01WY3	0.29	0.15	0.21	0.39	0.42	0.35	0.45	0.58	0.58	0.26	0.33	0.45	0.32	0.29	0.1675	0.06	-0.0375	0.313713	0.716045	0.22447	0.22447	1	0.995511	0.927928		
Gpi	P06745	-0.1	0.26	-0.4	-0.09	0.23	-0.24	-0.73	-0.08	0.4	-0.4	-0.41	0.19	-0.01	0.6	-0.42	-0.59	-0.1225	-0.0775	-0.0225	0.630902	0.9171	0.941628	1	0.995511	0.991085	
Gpkow	Q56A08	-3.23	-4.47	-3.79	-4.18	-3.84	-3.34	-3.74	-4.54	-3.2	-3.32	-3.33	-3.23	-3.69	-4.22	-4.37	0.2525	0.545	0.4	0.395242	0.28745	0.913152	1	0.995511	0.986458		
Gp1	Q8VCU2	-0.47	-0.9	-1.13	-0.63	-1.18	-0.97	-0.7	-1.24	-0.05	-0.93	-0.82	-1.15	0.53	-0.4	-0.83	-0.93	0.01	0.045	0.375	0.97084	0.876233	0.113444	1	0.995511	0.834523	
Gpm1a	P51802	-0.15	-0.27	-0.15	-0.27	-0.15	-0.27	-0.15	-0.27	-0.15	-0.27	-0.15	-0.27	-0.15	-0.27	-0.15	-0.27	-0.15	0.05	0.025	0.473129	0.464352	0.999216	1	0.995511	0.983509	
Gpm1b	A2A6G6	0.7	0.83	1.71	1	1.05	0.75	1.4	0.99	0.22	1.36	1.67	0.71	-0.26	0.89	1.2	0.94	-0.0125	-0.0995	-0.2675	0.962819	0.804866	0.915367	1	0.995511	0.907667	
Gpm1b	P35803-8	-13.52	-14.11	-10.22	-13.27	-11.93	-20.25	-12.71	-13.11	-14.32	-2.47	-9.34	-11.07	-15.04	-13.07	-11.85	-12.65	-1.72	3.48	-3.725	0.374505	0.165477	0.70709	1	0.995511	0.957157	
Gpn1	Q8XCE2	-0.95	-1.03	-0.71	-0.79	-1.1	-0.97	-0.75	-0.75	0.77	-0.88	-0.72	-0.52	0.84	-0.49	-1.11	-0.74	-0.0225	0.515	0.49	0.893335	0.147954	0.250625	1	0.995511	0.807201	
Gpr151	Q7Y3N6	-0.38	-0.3	0.63	1.33	1.87	-1	1.2	1.76	1.11	1.48	1.67	1.12	0.58	1.18	1.56	1.52	0.6375	0.465	0.6	0.380037	0.508514	0.128767	1	0.995511	0.848493	
Gpr155	A2AWM2	-2	-1.17	-0.37	-1.19	-0.57	-1.12	-0.72	-1.38	0.65	-0.88	-1.12	-0.82	-1.29	-1.24	-0.82	-1.07	-0.82673	0.149	0.07	0.82673	0.840493	0.178647	1	0.995511	0.780447	
Gpr158	Q8CRH1	0.75	0.92	0.89	0.98	0.67	0.53	0.83	0.86	0.86	0.82	0.81	0.74	0.58	0.54	0.75	-0.1625	-0.0775	-0.2925	0.315533	0.623807	0.120981	1	0.995511	0.721448		
Gpr162	Q3UN16	0.02	0.44	1.03	0.88	0.33	-0.02	0.21	0.12	0	0.91	0.79	0.11	0.61	0.22	0.44	0.17	-0.4325	-0.14	-0.2425	0.113124	0.169979	0.404749	1	0.995511	0.872135	
Gpr17	Q8N555	-0.45	0.27	-0.15	-0.37	-0.29	-0.12	-0.93	-0.36	1.12	0.92	-0.53	-0.01	1.14	0.47	1.11	-0.25	-0.055	0.6	0.8325	0.85966	0.168779	0.045862	1	0.995511	0.658454	
Gpr17	Q8WV14	-0.45	0.62	-0.31	-0.41	-0.03	-0.62	-0.48	-0.57	-0.36	-0.29	-0.48	-0.33	-0.25	-0.48	-0.33	-0.25	-0.48	0.18	0.1975	0.469966	0.517338	0.557458	1	0.995511	0.917902	
Gpr180	Q8RPS4	-0.65	-1.11	-1.11	-0.65	-0.29	-0.42	0.42	-0.84	-0.31	-1.21	-1.42	-0.78	0.76	-0.6	-1.69	-0.08	0.5975	-0.05								

Gf3c2	D3270	2.03	-0.04	-0.05	0.52	-0.09	1.9	0.24	0.03	0.61	1.08	0.15	1.49	1	1.74	0.18	0.01	-0.095	0.2175	0.1075	0.877265	0.681188	0.839717	1	0.99551	0.976219	
Gf3c3	Q37MP1	-0.15	-0.06	-0.07	-0.08	-0.1	-0.14	0.1	-0.17	0.19	-0.04	-0.33	0.13	0.79	0.38	-0.51	-0.34	0.0125	-0.0725	0.17	0.931818	0.757291	0.951579	1	0.99551	0.929755	
Gf3c4	Q8B4Q2	-1.14	-0.24	0.53	0.19	0.78	-1.45	0.83	0.39	-0.15	-0.47	-1.48	-1.78	-2.44	0.35	0.69	-0.45	0.005	0.05	0.689751	0.995185	0.930478	1	0.99585	0.992476		
Gf3c5	Q8R2T8	1.05	0.36	0.36	0.23	0.47	0.74	0.21	0.15	0.34	0.28	0.16	0.92	1.17	0.48	0.86	-0.42	-0.1075	-0.0795	0.2325	0.661061	0.793191	0.411247	1	0.99551	0.874811	
Gf3p0	Q80813	-1.35	-1	-0.93	-0.98	-1.01	-1.46	-0.83	-0.85	0.04	1.4	-1.18	-1.47	0.38	-0.35	-1.02	-1.48	0.0275	0.7625	0.4475	0.893463	0.230054	0.282409	1	0.99551	0.822235	
Gf3p10	Q80822	0.03	0.32	0.09	0.01	-0.55	-0.18	-1.23	0.35	0.25	0.75	0.63	-0.27	0.24	-0.71	-0.17	-0.01	-0.515	-0.2275	-0.275	0.143239	0.391928	0.286477	1	0.99551	0.822669	
Gf3p2	Q31UK4	-0.24	0.08	0.78	0.68	0.55	0.06	-0.48	0.46	1.04	1.95	1.56	0.28	1.04	1.66	1.17	0.45	-0.0275	0.7825	0.655	0.950144	0.802656	0.980734	1	0.99551	0.684354	
Gf3p3	EP9WV7	0.16	0.97	0.32	0.25	0.96	0.36	0.57	0.53	0.11	-0.05	0.54	0.4	0.01	0.82	0.18	0.84	0.18	-0.175	0.0375	0.460144	0.491965	0.899602	1	0.99551	0.983509	
Gf3p4	EP9ME9	0.72	1.07	0.33	0.66	0.94	0.48	0.32	0.19	0.34	0.13	0.55	0.68	0.11	0.96	0.77	0.51	-0.2125	-0.27	-0.1075	0.385157	0.254532	0.686304	1	0.99551	0.955729	
Gf3p6	Q31U65	-0.87	0.54	-0.22	0.16	0.48	0.59	0.33	0.53	0.6	0.4	0.37	-0.01	0.56	0.28	0.3	0.585	0.2875	0.385	0.088196	0.467995	0.256245	1	0.99551	0.810628		
Gf3p7	F8QVPS	0.03	0.18	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.09	0.46	0.03	0.03	0.03	0.03	0.03	0.03	-0.04	0.238931	0.239744	0.3417635	1	0.99551	0.986808			
Gf3p11	Q9ELR3	0.31	-0.21	-0.6	0.51	0.21	-0.44	-0.02	-0.31	-0.72	-0.53	-0.57	-0.24	0.75	-0.37	-0.3	0.06	0.1125	-0.1425	-0.1175	0.687388	0.638858	0.687692	1	0.99551	0.952139	
Gf3p12	F8VQK3	1.07	0.15	0.3	0.36	0.52	1.18	0.77	0.35	0.2	-0.37	0.31	0.7	-0.39	0.08	-0.12	0.46	0.235	-0.26	-0.4625	0.405934	0.405097	0.136171	1	0.99551	0.731656	
Gf3p13	Q5A865	0.39	0.02	0.43	0.51	0.18	0.38	0.35	0.44	0.36	0.64	0.28	0.25	-0.05	-0.01	0.19	0.35	1.96617	0.045	-0.2175	1	0.816988	0.305143	1	0.99551	0.831662	
Gf3p14	Gul1	Q83K34	0.07	0.13	0.33	0.62	0.01	0.31	0.36	0.51	0.32	0.21	0.5	0.17	0.31	-0.21	-0.01	-0.0575	-0.055	-0.34	0.75050	0.746558	0.125379	1	0.99551	0.872148	
Gul1	Q64520-2	-0.01	-0.17	0.16	0.31	0.17	0.33	0.27	-0.13	0.14	0.15	-0.27	-0.42	0.36	0.1	-0.21	0.04	-0.025	-0.04	0.667613	0.807912	0.785551	1	0.99551	0.979626		
Gul2	Q8CKC5	1.68	1.1	0.04	-0.06	0.96	1.45	0.48	0.59	0.16	0.28	-0.05	0.66	1.13	-0.24	0.12	0.21	0.2575	-0.3525	-0.385	0.558138	0.438826	0.435159	1	0.99551	0.879165	
Gul3	P12265	-0.17	-0.05	-0.06	0.25	0.87	0.19	1.16	0.05	-1.53	-0.64	0.44	0.07	-1.47	-0.9	-0.34	0.1	0.575	-0.4075	-0.645	0.069105	0.345096	0.092746	1	0.99551	0.659588	
Gul4	L7W451	-1.55	-2.53	0.98	0.95	-2.4	-3.23	0.38	0.52	-1.16	2.18	0.44	-1.57	0.63	-2.69	0.97	1.94	-0.645	0.515	0.7	0.584856	0.643636	0.355596	1	0.99551	0.912122	
Gy1	Q9R062	1.13	1.76	0.45	0.66	2.18	1.24	0.54	0.89	-0.09	-0.27	0.7	-2.42	0.17	0.18	0.58	1.77	0.25	0.42	0.2125	-0.175	0.4621598	0.718484	0.198829	1	0.99551	0.78004
Gy2	P14220	0.77	-0.71	-0.27	1.92	-0.57	1.98	1.68	2.64	0.96	-0.08	1.28	-2.38	0.45	1.3	-0.15	-0.2	1.005	-0.4825	-0.0775	0.241354	0.600134	0.901041	1	0.99551	0.983757	
Gy3	AD0180G7	-0.08	-0.19	0.46	0.52	0.05	0.06	0.81	0.64	-0.13	-0.44	0.33	-0.32	-0.72	-1.07	0.2	0.56	0.1875	-0.5675	-0.435	0.515101	0.126857	0.301121	1	0.99551	0.830276	
H1-0	P10922	2.88	1.99	3.07	2.05	1.81	2.48	2.38	2.49	0.87	-0.13	2.61	1.84	1.57	-0.88	2.26	2.54	-0.2075	-1.2	-1.125	0.51674	0.673005	0.157857	1	0.99551	0.751678	
H1-1	P14275	1	0.16	0.54	0.76	-0.13	0.59	0.65	0.37	2.04	0.07	0.62	0.68	2.38	0.97	1.26	0.27	-0.245	0.2375	0.605	0.359151	0.564574	0.200143	1	0.99551	0.78004	
H1-2	P15684	2.68	0.65	2.15	1.74	-0.84	2.32	0.79	1.12	2.71	-0.9	1.65	2.21	3.4	-1.78	2.7	1.17	-0.9575	-0.3875	-0.4325	0.199162	0.370051	0.694081	1	0.99551	0.955729	
H1-3	A3XGR9	-0.31	-0.2	-0.58	-0.79	0.65	-0.19	-0.25	-0.48	-0.54	-0.12	-0.51	0.06	0.02	-0.08	-0.26	-0.06	0.4025	-0.0325	0.375	0.1797	0.950562	0.907304	1	0.99551	0.698156	
H1-4	P13277	2.1	1.41	2.14	2.04	1.43	1.38	1.72	2.04	2.01	0.36	1.95	1.5	1.94	1.46	2.49	1.76	-0.28	-0.4675	-0.01	0.269056	0.262402	0.972885	1	0.99551	0.992865	
H1-5	P13274	1.31	0.15	1.56	1.18	-0.01	0.6	1.1	1.84	0.71	1.65	0.92	1.15	0.38	0.24	1.65	0.67	-0.075	-0.075	-0.125	0.369753	0.886583	0.770025	1	0.99551	0.808098	
H1-6	P13276	1.1	0.86	1.07	1.81	1.89	1.17	1.21	1.33	1.26	1.56	1.16	1.43	1.81	1.7	1.57	1.1	0.3225	-0.15	-0.1325	0.051306	0.251967	0.250519	1	0.99551	0.952139	
H1F10	Q80ZM5	1.43	-0.22	-0.3	0.4	-1.5	1.34	-0.89	0.19	0.23	-1.39	0.64	-0.04	0.23	-0.92	0.49	0.03	-0.5425	0.0575	0.365	0.420093	0.941738	0.679523	1	0.99551	0.955402	
H2ac1	Q64522	12.49	11.13	9.96	4.84	10.53	11.7	9.39	9.4	-0.91	0.97	9.81	12.56	-1.29	1.2	9.97	11.87	0.6075	-0.4	-4.21	0.701821	0.239903	0.213201	1	0.99551	0.786931	
H2ac2	TP7661	2.49	0.46	1.15	1.26	-0.48	2.18	0.8	1.05	3.61	-0.24	0.98	2.15	1.38	-2.05	0.93	1.06	-0.4525	-0.165	-0.36	0.477889	0.884795	0.756818	1	0.99551	0.962333	
H2ac3	Q3THW5	1.96	0.35	0.97	0.31	0.79	1.27	0.33	0.82	0.9	1.8	0.9	1.85	0.72	1.18	1.21	0.025	-0.075	-0.115	0.767708	0.835999	0.718484	0.198829	1	0.99551	0.958298	
H2b1c5	P10B53	2.54	1.23	1.72	1.45	1.02	1.89	1.12	1.58	1.32	1.73	1.53	1.89	0.94	0.54	1.42	1.72	-0.3325	-0.1175	-0.58	0.341118	0.709094	0.150588	1	0.99551	0.749304	
H2b2u2	Q90ZU9	1.97	1.41	1.26	1.4	0.72	1.33	0.82	0.59	1.21	-1.44	0.56	1.22	1.47	0.19	0.96	1.47	-0.645	-1.1225	-0.5825	0.024113	0.086512	0.175654	1	0.99551	0.771152	
H2-D1	P10189	-0.03	-0.41	-0.3	0.15	-0.74	-1.52	-0.49	-0.41	-0.5	0.63	0.54	-0.95	0.33	-0.35	-0.5	0.47	-0.575	-0.125	0.2025	0.069601	0.724126	0.489878	1	0.99551	0.933733	
H2-D11	AD0458B4	-0.92	-0.3	-1.07	-0.49	-1.06	-1.54	-0.5	-1.38	-1.16	0.18	-1.16	0.18	0.58	1.77	0.25	0.47	-0.3025	-0.145	-0.79	0.537798	0.719164	0.237472	1	0.99551	0.787613	
H2-Q10	P08B88	-2.57	-2.4	-2.11	-2.83	-2.01	-2.7	-2.84	-2.64	-2.22	-2.02	-2.57	-2.88	-1.59	-1.82	-2.21	-2.5	-0.07	0.305	0.4475	0.778995	0.467543	0.130495	1	0.99551	0.724318	
H3c14	AD0A1W2P7	1.38	0.86	1.57	1.63	0.72	0.51	1.13	1.07	1.64	0.94	1.17	0.67	1.63	1	1.32	1.49	-0.5025	-0.255	-3.56	-1.6	0.64714	0.376775	1	1	0.99551	1
H3c15	F8WV35	1.62	0.55	1.25	0.98	-1.32	1.72	-1.6	-0.56	4.1	-2.51	0.34	-0.3	4.92	-1.85	0.43	1.06	-1.54	-0.6925	0.04	0.055477	0.581675	0.974803	1	0.99551	0.992977	
H3c16	TP6206	2.24	1.74	1.12	2.05	1.05	1.71	1.68	2.19	1.83	0.74	1.72	2.14	1.19	1.26	0.87	0.99	-0.15	0.2	-0.73	0.640235	0.589588	0.025758	1	0.99551	0.621926	
H3p1	Q87X1	0.08	0.55	0.19	-0.09	-0.02	0.19	0.29	-1.28	-0.79	-0.42	0.16	0.71	1.44	0.47	0.17	0.25	0.586065	0.02	0.45	0.1	0.584013	0.187113	0.187113	1	0.99551	0.914424
H4p1	E9QK62	-2.24	-0.42	-1.33	-1.52	-1.99	-2.19	-0.93	-1.53	-2.11	-0.89	-1.35	-1.83	-0.9	-2.37	-0.66	-0.92	0.2175	0.3325	-0.665	0.599099	0.377153	0.165222	1	0.99551	0.757516	
H4c21	Q903B1	0.18	-0.28	-0.26	-0.72	-1.32	1.27	-0.77	-1.08	3.22	-0.42	-0.67	0.21	4.67	-1.92	1.02	-0.13	-0.205	0.355	1.18	0.718727	0.740856	0.357676	1	0.99551	0.856624	
H4c31	Q8X2C9	0.78	0.1	0.66	0.82	0.6	1.05	2.15	0.9	0.54	0.56	0.56	0.28	0.89	0.39	1.26	1.23	0.585	-1.010	0.3525	0.132245	0.632944	0.132118	1	0.99551	0.788863	
H4c41	Q31U09	-0.03	0.13	0.33	-0.15	0.03	0.78	0.03	0.35	0.40	0.18	-0.43	0.12	0.59	0.1	0.1	0.1	-0.315	0.02164	0.217945	0.341118	0.154105	0.154105	1	0.99551	0.954105	
H4c1	D3Y524	0.12	-0.41	0.07	0.68	-0.47	0.73	1.43	0.28	0.34	0.08	0.68	0.73	0.4	0.32	0.16	0.13										

Hmxo1	P14901	-0.13	0.53	0.14	-0.29	0.42	0.5	1.13	0.24	0.23	-1.2	0.21	0.29	-0.19	0.77	0.11	0.19	0.51	-0.18	0.1575	0.08629	0.64428	0.58628	1	0.99551	0.928178
Hmxo2	O70252	0.95	0.93	0.68	0.42	0.81	0.73	0.67	0.05	0.74	0.11	0.23	1.16	0.8	0.05	0.74	0.6	-0.055	-0.185	-0.1975	0.761293	0.519061	0.432314	1	0.99551	0.879165
Hmnt	Q01V12	-0.12	0.73	0.01	-0.87	-0.19	0.27	0.6	-0.2	-0.48	-0.97	-0.45	-0.5	0.53	-2.18	0.35	0.69	-0.1375	-0.1725	-0.245	0.658181	0.524245	0.46021	1	0.99551	0.949455
Hmrnpa0	O5CX86	-0.21	-1.28	-1.66	-1.45	-1.41	-0.48	-1.4	-1.13	-1.09	-1.62	-1.71	-1.02	-0.28	-1.72	-0.69	-1.8	-0.06	-0.315	-0.0757	0.893284	0.476291	0.883135	1	0.99551	0.979767
Hmrnpa1	O5EBP8	2.4	-0.06	-1.25	-1.01	-1.14	1.34	-0.85	-0.63	-1.15	-0.99	-1.29	1.01	1.3	1.11	-0.25	-1.09	-0.05	-0.2475	0.915834	0.957895	0.78491	1	0.99551	0.967642	
Hmrnpa2	O1O8569	0.46	-1.22	-1.82	-1.39	-1.06	-0.42	-1.44	-0.62	-0.94	-2.16	-1.72	-1.19	-0.63	-0.89	-0.41	-1.71	0.1075	-0.51	0.8215	0.832084	0.347081	0.876908	1	0.99551	0.979626
Hmrnpa3	A21A12	-1.11	-1.27	-0.95	-0.76	-1.47	-0.38	-0.52	-0.2	-0.88	-0.54	-0.86	1.71	0.21	-0.38	0.15	0.61	0.065	-0.29	0.545	0.866173	0.444497	0.748169	1	0.99551	1.000667
Hmrnpa4	O8BG05-2	2.84	0.52	0.31	1.73	-0.21	1.68	1.33	3.39	2.71	2.38	1.55	1.17	3.3	1.9	3.47	1.53	-0.3025	0.1025	0.7	0.718635	0.866785	0.317242	1	0.99551	0.838864
Hmrnpa5	O99020	0.68	-2.64	-2.79	-2.53	-2.56	-0.46	-2.29	-2.57	0.4	-2.33	-2.71	-1.1	1.66	-2.5	-2.18	-2.79	-0.15	1.6	0.3675	0.864483	0.879087	0.758261	1	0.99551	0.963042
Hmrnpa6	O920A-2	0.39	0.52	0.12	0.56	0.24	-0.45	0.71	0.4	0.1	-0.61	0.37	-0.1	-1.04	0.08	-0.39	-0.1725	-0.4575	-0.11	0.528293	0.097187	0.727935	1	0.99551	0.925347	
Hmrnpa7	O920A4	0.95	0.93	0.68	0.42	0.81	0.73	0.67	0.05	0.74	0.11	0.23	1.16	0.8	0.05	0.74	0.6	-0.055	-0.185	-0.1975	0.761293	0.519061	0.432314	1	0.99551	0.879165
Hmrnpa8	O60668-3	0.74	1.53	-0.38	0.3	-1.14	-0.18	0.23	1.25	-1.46	-1.37	0.06	-0.79	-0.37	-2.32	-0.06	0.44	0.2375	-0.0675	-0.245	0.658181	0.524245	0.46021	1	0.99551	0.977447
Hmrnpd1	O92130	1.01	1.05	0.36	0.46	1.22	0.61	0.49	0.79	0.35	0.69	0.33	0.31	-0.26	1.33	0.28	0.22	0.0575	-0.3	-0.3275	0.819829	0.21912	0.389823	1	0.99551	0.865375
Hmrnpd2	O97Y20	0.08	-0.49	-0.31	-0.22	-0.43	-0.46	-0.29	0.29	0.39	-0.74	-0.45	-0.89	0.58	-1.03	0.35	-0.5	0.0125	-0.3825	0.085	0.956739	0.097102	0.823982	1	0.99551	0.972768
Hmrnpf	O92ZK1	-0.68	-1.7	-0.87	-0.72	-1.51	-1.03	-0.91	-0.61	-2.05	-1.96	-0.54	-1.75	-1.64	-1.8	-0.44	-1.17	-0.0225	-0.3825	-0.27	0.940999	0.175505	0.486169	1	0.99551	0.895906
Hmrnpk1	Q8CZ07	-1.11	-2.28	-1.87	-1.34	-1.18	-1.5	-1.24	-1.32	-2.31	-1.11	-1.5	-2.15	-1.93	-2.2	1.04	-1.55	0.0025	-0.29	0.215	0.807741	0.752004	0.524412	1	0.99551	0.907667
Hmrnpk2	P70323	-0.05	-2.11	-0.7	-0.71	-2	-0.65	-0.15	-0.08	-1.73	-0.94	-0.49	-1.55	-1.17	-1.51	0.44	-0.42	0.2125	-0.2885	0.2275	0.571	0.565206	0.686828	1	0.99551	0.957279
Hmrnpk3	D3Z3N4	1.59	0.46	0.65	0.72	-0.03	1.22	0.51	1.37	0.12	0.55	0.43	0.15	0.3	0.45	1.28	0.79	-0.0875	-0.5425	-0.15	0.822091	0.082945	0.655261	1	0.99551	0.948818
Hmrnpk4	B2M186	-0.24	-1.89	-1.43	-1.17	-2.02	-1.35	-1.58	-0.05	-1.27	-0.45	-1.19	-1.55	-1.08	-0.84	-0.9	-1.74	-0.2925	-0.6075	0.0425	0.641728	0.866254	0.913481	1	0.99551	0.986458
Hmrnpk5	GS5924	0.13	-1.44	-0.74	-0.47	-0.1	-0.63	0.01	0	-1.09	-0.55	-0.63	-1.61	0.04	-0.12	0.05	-0.21	0.22	-0.34	0.75	0.572616	0.394708	0.709055	1	0.99551	0.681114
Hmrnpk6	O921F4	-1.46	-1.86	-2.41	-2.39	-1.88	-1.75	-2.55	-2.49	-1.56	-2.37	-2.11	-1.64	-2.11	-1.58	-2.15	-2.57	-0.1375	0.36	0.1025	0.653024	0.231394	0.769317	1	0.99551	0.965912
Hmrnpm	O900E1-2	0.32	-1.56	-1.26	-0.7	-1.59	-0.31	-1.07	-0.4	-1.08	-0.85	-0.67	-1.42	-0.11	-1.05	-1.12	-1.06	-0.4425	-0.205	0.215	0.285254	0.628847	0.645594	1	0.99551	0.944749
Hmrnprr	Q8VHM5	0.35	-1.16	-0.83	-0.59	-1.47	-0.19	-0.69	-0.08	-1.47	-1.48	-0.61	-1.32	-0.72	-1.89	-0.26	-0.69	-0.05	-0.6625	-0.3325	0.906467	0.102923	0.467632	1	0.99551	0.889213
Hmrnprr1	Q8VEK3	1.33	-0.27	-0.67	-0.29	-0.72	0.67	-0.48	-0.18	0.1	-0.47	-0.65	-0.23	0.78	-0.08	-0.02	-0.85	-0.2025	-0.3375	-0.0675	0.684821	0.45567	0.89588	1	0.99551	0.983509
Hmrnprr2	Q8VDM6	-1.15	-1.99	-2.5	-2.31	-1.19	-1.54	-2.27	-1.05	-1.45	-1.02	-2.39	-1.47	-1.27	-1.25	-1.8	-1.42	0.0725	-0.405	0.3025	0.823688	0.322856	0.449619	1	0.99551	0.884817
Hmrnprr3	Q0Q9P9	1.24	0.18	0.17	0.32	-0.21	0.56	-0.26	0.73	0.07	-0.1	-0.01	-0.34	0.67	-0.11	0.44	-0.58	-0.2725	-0.5725	-0.3725	0.443212	0.069342	0.331128	1	0.99551	0.845601
Homer1	O92Y21-5	1.77	1.16	2.08	2.05	1.39	1.48	1.59	2.04	0.81	1.9	2.15	1.42	0.27	1.19	2.29	1.63	-0.14	-0.195	-0.67	0.600028	0.586719	0.087436	1	0.99551	0.891619
Homer1	O92Y21-5	1.77	1.16	2.08	2.05	1.39	1.48	1.59	2.04	0.81	1.9	2.15	1.42	0.27	1.19	2.29	1.63	-0.14	-0.195	-0.67	0.600028	0.586719	0.087436	1	0.99551	0.891619
Homer1	O92Y21-5	1.77	1.16	2.08	2.05	1.39	1.48	1.59	2.04	0.81	1.9	2.15	1.42	0.27	1.19	2.29	1.63	-0.14	-0.195	-0.67	0.600028	0.586719	0.087436	1	0.99551	0.891619
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.92	-0.55	-0.80	0.91	-1.4	-0.56	0.99	0.54	1.07	0.72	-0.93	0.2225	-0.075	0.765931	0.923292	0.322676	1	0.99551	0.987467	
Homer2	O92CW1-5	1.08	1.05	-0.65	-1.25	1.57	0.9																			

ik	Q921M8	1.54	0.29	-0.43	-0.51	0.17	0.61	-0.9	0.02	-0.05	-0.12	-0.66	-0.51	0.63	0.74	-0.15	-1.33	-0.2475	-0.5575	-0.25	0.63927	0.251206	0.685865	1	0.956511	0.955729	
ikb6	A0A0K40T	-0.49	-0.36	0.2	-0.18	-0.69	-0.55	0.14	0.11	-0.49	0.34	0.21	-0.47	-0.74	-0.94	-0.2	0.11	-0.04	0.105	0.235	0.885054	0.707199	0.48774	1	0.956511	0.883205	
ikb9	E9Q2Y3	0.1	0.13	0.00	0.06	-0.51	0.02	0.02	0.14	0.84	0.23	0.19	0.11	0.12	-1.55	-0.14	-0.16	-0.1325	-0.1475	-0.5025	0.420704	0.590789	0.19004	1	0.956511	0.78004	
ik17ra	Q60943	1.03	1.64	0.66	0.73	1.83	1	-0.55	-0.4	1.21	0.2	-0.19	1.08	0.81	1.28	0.42	0.04	-0.545	-0.4	-0.3775	0.345797	0.277402	0.2917	1	0.956511	0.825497	
ik18	P703B0	0.53	0.42	1.08	1.27	-0.01	0.61	0.8	1.33	-0.05	0.46	1.44	0.61	0	-0.97	0.53	0.81	-0.1425	-0.21	-0.7325	0.671843	0.565618	0.110857	1	0.956511	0.712422	
ik19	A0A0K7W5	-1.1	3.29	1.33	1.56	4.76	-0.34	5.48	0.98	1.57	-0.89	3.73	0.74	-0.47	0.08	0.01	-1.9825	0.14343	0.199129	0.481	0.584	0.584	0.584	1	0.956511	0.658454	
ik1rap	Q61370	0.54	0.76	0.17	-0.07	0.86	0.75	0.2	-0.23	0.69	0.57	-0.04	0.55	0.7	0.79	0.02	0.1	0.045	0.0925	0.0525	0.884322	0.727709	0.855961	1	0.956511	0.976225	
ik1rap1	B1ASU0	1.1	1.29	1.32	1.74	1.55	1.07	1.49	1.71	1.03	1.25	1.78	1.09	0.23	1.57	0.89	1.03	0.08925	-0.075	-0.4325	0.671134	0.758551	0.193111	1	0.956511	0.777764	
ik1rap2	Q9R5E6	-0.61	0.03	0.14	-0.36	0.52	-0.42	0.38	0.34	-0.45	0.46	-0.44	-0.64	-0.59	0.64	-0.03	0.13	0.405	0.1525	0.2375	0.170305	0.650303	0.458538	1	0.956511	0.887902	
ik19	V9Y000	0.1	0.18	0.06	0.06	-0.51	0.02	0.02	0.14	0.84	0.23	0.19	0.11	0.12	-1.55	-0.14	-0.16	-0.1325	-0.1475	-0.5025	0.420704	0.590789	0.19004	1	0.956511	0.78004	
ik19	A0A0AGVY	0.31	0.82	0.97	1.05	0.88	0.58	0.54	0.83	1.09	0.8	1.15	0.69	0.79	0.66	0.55	0.7	-0.055	0.145	0.147	0.801343	0.550589	0.592731	1	0.956511	0.928943	
ik2	Q9CYK6	-0.08	-0.89	-0.75	-0.66	-1.29	-0.36	-0.55	-0.25	-1.3	-1.14	-0.86	-1.71	-0.37	-1.19	-0.55	-1.14	-0.0175	-0.0675	-0.2175	0.952414	0.034519	0.460383	1	0.956511	0.887902	
ik3	Q921K4-3	0.01	-0.96	-0.07	-0.08	-1	-0.48	-0.24	-0.27	-0.67	0.65	-0.2	-1.13	-0.22	-0.43	0.5	-0.26	-0.0875	-0.0625	0.1725	0.790606	0.881943	0.588124	1	0.956511	0.929131	
ik4	Q55222	-0.08	-0.59	-0.57	-0.58	-0.09	-0.17	-0.57	-0.55	-0.51	-0.69	-0.39	-0.16	-0.63	-0.33	-0.8	-0.54	-0.11	0.0175	-0.12	0.597437	0.033399	0.578405	1	0.956511	0.927198	
ik4ap	Q8R0E6	-1.1	3.29	1.33	1.56	4.76	-0.34	5.48	0.98	1.57	-0.89	3.73	0.74	-0.47	0.08	0.01	-1.9825	0.14343	0.199129	0.481	0.584	0.584	0.584	1	0.956511	0.759484	
ik4un	A0A3B2W3	-0.4	-3.23	-2.79	-2.79	-1.59	-3.9	-2.05	-3.42	-3.41	-0.94	-1.73	-3.57	-3.31	-2.29	-1.87	-0.47	0.3125	0.64	0.5675	0.554994	0.307291	0.122557	1	0.956511	0.721448	
ik4un1	Q8BU33	0.02	0.59	-0.26	0.02	0.7	0.16	0.63	-0.09	0.12	-0.41	-0.27	0.14	0.18	0.26	0.16	0.57	0.2575	-0.1925	0.2	0.348152	0.437139	0.415459	1	0.956511	0.874945	
ik4un2	Q9CUQ8	1.77	1.26	1.15	1.07	1.08	1.51	0.04	0.86	3	0.86	1.46	1.02	1.27	0.11	1.28	-0.465	-0.4325	0.015	0.205667	0.513773	0.978244	0.415459	1	0.956511	0.939727	
ik4un3	Q8BP16	-0.23	-3.25	-2.14	-1.64	-2.41	-3.12	-1.24	-2.07	-3.46	-2.17	-1.66	-2.41	-3.45	-2.43	-1.15	0.805	-0.1925	-0.214	0.352991	0.789974	0.78288	0.415459	1	0.956511	0.967642	
ik4un4	E90800	1.85	1.74	1.67	2.26	0.92	1.8	1.03	2.13	0.3	2.68	2.27	1.58	0.01	1.1	1.86	1.36	-0.41	-0.3225	-1.105	0.217249	0.603127	0.043604	1	0.956511	0.658454	
ik4un5	Q8CAQ8-3	0.94	0.95	0.5	0.6	0.19	0.58	-0.81	0.57	0.72	0.97	0.47	0.48	0.67	-0.06	0.19	0.19	-0.615	-0.3225	-0.5	0.095066	0.345586	0.057491	1	0.956511	0.661738	
ik4un6	Q8CAQ8-2	1.74	1.48	1.53	1.21	1.78	1.51	1.58	0.76	0.8	1.59	1.46	1.14	0.41	1.42	1.51	0.04	-0.3275	-0.36	0.841389	0.236207	0.237752	0.415459	1	0.956511	0.792722	
ik4un7	Q8CAQ8	-0.58	-0.17	-2.52	-1.78	-2.95	-4.61	-1.41	-1.69	-3.15	-2.02	-1.98	-4.05	-2.72	-1.09	-1.52	-2.38	-0.1725	-0.3075	-0.565	0.815331	0.592108	0.469809	1	0.956511	0.620534	
ik4un8	E9PV55	-2.74	-1.57	-2.81	-1.52	-3.03	5.5	-0.8	-4.66	-2.77	-2.67	-451	-2.58	-2.58	-2.08	-2.4	2.84	3.7425	1.2925	1.125	0.073321	0.440859	0.370416	1	0.956511	0.855245	
ik4un9	Q921Y2	0.4	0.2	1.03	0.77	1.18	0.35	2.72	1.35	0.53	1.43	1.15	-0.79	0.39	0.76	2.21	2.32	8.00E-01	-0.02	0.82	0.126958	0.967508	0.123483	1	0.956511	0.721448	
ik4un10	Q92480	0.21	-0.14	0.1	0.28	-0.41	0.03	-0.13	-0.01	0	0.59	-0.21	0.27	-0.42	0.25	-0.36	-0.33	0.201811	0.827075	0.1	0.04	0.04	0.04	1	0.956511	0.76392	
ik4un11	Q91U25	0.4	0.54	-2.11	-3.29	0.19	0.97	-2.64	-3.15	1.98	-2.53	-3.1	1.14	2.02	1	-1.19	-1.09	-0.1325	0.2375	0.3	0.917819	0.860681	0.883899	1	0.956511	0.976133	
ik4un12	Q55011	-0.5	0.18	-0.67	-0.38	-0.52	-0.12	-0.38	-0.15	-0.38	-0.15	-0.38	-0.15	-0.38	-0.15	-0.38	-0.15	-0.38	-0.15	-0.38	0.06	0.693332	0.307447	0.72343	1	0.956511	0.965933
ik4un13	F70E16	-0.76	-1.09	-0.61	-0.49	-0.95	-1.06	-0.65	-0.22	-1.12	-0.13	-0.44	-0.96	-1.31	-0.91	-0.69	-0.95	0.0175	-0.0775	-0.2275	0.945217	0.886961	0.332997	1	0.956511	0.845601	
ik4un14	P24547	0.32	0.14	-0.21	-0.22	0.12	-0.06	-0.15	-0.09	-0.11	-0.28	-0.3	0.2	-0.65	-0.01	0.32	-0.47	-0.0525	-0.13	0.37	0.778662	0.551632	0.138904	1	0.956511	0.73493	
ik4un15	Pa4660	1.22	0.94	1.44	1.29	1.01	0.36	1.05	1.3	0.77	0.21	1.13	0.63	0.52	0.39	1.56	-0.48	-0.2925	-0.3375	-0.235	0.247133	0.05139	0.482511	1	0.956511	0.893925	
ik4un16	A0A115T1	1.78	1.96	1.95	0.67	1.98	1.92	0.02	2.98	2.86	1.5	0.62	3.72	2.06	1.3	0.62	3.725	0.055	0.1	0.3175	0.465612	0.912294	0.198809	1	0.956511	0.878902	
ik4un17	E9QLA5	0.14	-0.49	0.23	0.61	-0.71	-0.54	0.25	0.32	-0.15	-0.27	-0.04	-0.1	-0.81	-0.05	0.27	-0.2925	-0.1275	-0.295	0.390555	0.631959	0.378029	0.415459	1	0.956511	0.869084	
ik4un18	Q9ESK4	-2.19	-5	-1.45	-1.22	-2.42	-3.16	-1.37	-0.68	-4.35	-2.13	-1.71	-2.48	-0.66	-4.8	1.48	0.51	0.5575	-0.2025	1.5975	0.55079	0.829853	0.287844	1	0.956511	0.824705	
ik4un19	Q3JTX7	-0.26	-0.35	0.71	-0.83	-0.87	-1.71	-2.8	0.15	-0.54	0.7	-1.8	-0.66	-1.29	0.17	-0.58	1.36	-0.77	-0.0375	-0.2275	0.211514	0.939305	0.569386	1	0.956511	0.912571	
ik4un20	Pa4842	-0.23	-3.25	-2.14	-1.64	-2.41	-3.12	-1.24	-2.07	-3.46	-2.17	-1.66	-2.41	-3.45	-2.43	-1.15	0.805	-0.1925	-0.214	0.352991	0.789974	0.78288	0.415459	1	0.956511	0.967642	
ik4un21	F6VU20	-0.34	-0.32	0.01	0.1	-0.18	-0.27	-0.05	0.01	-0.36	0.06	-0.01	-0.15	-0.53	-0.05	-0.15	-0.18	0.01	0.0225	-0.09	0.545696	0.90916	0.67144	1	0.956511	0.945631	
ik4un22	E9PVM1	-0.05	0.05	0.11	0.53	-0.15	-0.11	0.24	0.43	0.01	0.99	0.06	-0.09	-0.38	0.57	0.02	0.06	-0.0575	-0.0825	-0.0925	0.789492	0.776737	0.724072	1	0.956511	0.958398	
ik4un23	Q7TNC9	0.29	0.34	0.73	0.6	0.58	0.22	0.56	0.34	-0.16	0.53	0.48	0.33	-0.17	0.13	0.76	0.68	-0.065	-0.195	-0.14	0.720321	0.395254	0.607593	1	0.956511	0.933262	
ik4un24	Q8K337	-0.13	-0.05	0.34	0.4	-0.11	-0.08	0.1	0.28	-0.1	0.69	0.54	0.04	-0.15	0.25	0.11	0.07	-0.0925	0.1775	-0.07	0.640158	0.303727	0.743596	1	0.956511	0.959521	
ik4un25	Q9ES32-3	-0.12	-0.74	-0.52	-0.12	-0.74	-0.52	-0.12	-0.74	-0.52	-0.12	-0.74	-0.52	-0.12	-0.74	-0.52	-0.12	-0.74	-0.52	-0.12	0.392	0.290666	0.224827	0.186058	1	0.956511	0.878598
ik4un26	E9JH1	-0.33	0.14	-0.35	-0.4	0.07	0.06	-0.58	-0.29	0.57	-0.12	-0.12	-0.02	0.91	0.31	-0.15	-0.08	0.05	0.0875	0.4825	0.825259	0.800247	0.12343	1	0.956511	0.721448	
ik4un27	Q8CDA1	0.11	0.2	0.2	0.04	0.19	0.2	-0.12	-0.25	0.35	-0.18	-0.13	0.11	0.45	0.1	0.08	0.03	-0.1325	-0.01	0.0275	0.447067	0.954823	0.882461	1	0.956511	0.975767	
ik4un28	P9S644	-0.11	-0.03	0.28	0.23	-0.17	-0.1	-0.46	-0.09	0.61	0.29	0.21	-0.04	0.81	0.14	-0.02	-0.12	-0.285	0.1875	0.1225	0.141685	0.375993	0.442356	1	0.956511	0.94365	
ik4un29	Q8C515	-0.24	-0.71	-0.21	-0.03	-0.19	-0.12	-0.05	-0.12	-0.05	-0.12	-0.05	-0.12	-0.05	-0.12	-0.05	-0.12	-0.05	-0.12	-0.05	0.335	0.741495	0.952339	0.19042	1	0.956511	0.94365
ik4un30	E9P549	0.01	0.26	0.57	0.2	0.28	0.06	-0.19	0.01	0.57	1.19	0.5	0.32	0.59	0.95	0.11	0.38	-0.2425	0.3625	0.225	0.207963	0.150099	0.336419	1	0.956511	0.858475	
ik4un31	A0A0U1R1	-1.33	-																								



Jph3k	Q9E777	1.27	0.57	0.83	1.14	0.95	1.17	0.65	0.94	1.15	0.5	0.46	0.6	1.46	1.1	1.09	0.8	-0.025	-0.275	0.16	0.907621	0.285742	0.517394	1	0.956511	0.905961	
Jph4k	Q8W0V7	0.51	0.08	-0.11	0.01	0.73	0.19	0.44	0.12	-0.03	-0.13	-0.12	-0.35	-0.3	0.82	0.54	0.18	0.2475	-0.28	0.1875	0.273827	0.186504	0.268447	1	0.956511	0.908204	
Jph1k	P97825	-0.84	-0.56	0.68	0.47	-1	-0.71	-0.15	0.66	0.62	0.56	0.52	-0.16	-0.49	-0.35	0.54	0.1075	0.47	0.6825	0.637509	0.186073	0.18969	0.47	1	0.956511	0.921448	
Jph2k	Q6PHG2	0.25	0.18	-0.12	-0.28	-0.15	0.44	-0.01	-0.09	1.84	0.16	0.23	0.83	2.33	0.26	1.42	0.64	0.4	0.7575	1.155	0.84954	0.080432	0.203894	1	0.956511	0.637553	
Jphb	D3Z4D1	-3.15	-4.87	-3.16	-1.43	-4	-4.26	-2.51	-1.77	-3.65	0.2	-2.49	-3.93	-1.94	-2.02	-1.8	-1.14	0.0175	0.685	1.4275	0.883559	0.52113	0.056615	1	0.956511	0.661738	
Jph0k	P90450	-3.78	-3.36	-2.12	-2.63	-3.98	-2.67	-2.71	-2.16	-2.2	2.47	-2.74	-3.48	-1.72	-1.66	-1.46	-3.27	0.0925	1.485	1.195	0.85171	0.253914	0.072221	1	0.956511	0.680606	
Jund4	P15066	-1.61	-1.72	-2.79	-2.66	-1.21	-1.58	-3.17	-2.14	-2.31	-1.57	-2.61	-1.54	-1.92	-1.62	-2.97	-1.17	-0.11	0.0625	0.025	0.884525	0.801725	0.055775	1	0.956511	0.917092	
Jup	Q0Z257	1.1	1.2	1.5	1.11	1	0.89	1.24	1.23	0.81	0.84	1.44	1.05	0.26	0.46	0.75	1.24	-0.1125	-0.1925	-0.55	0.522586	0.37896	0.060361	1	0.956511	0.661738	
Kalrn	D3Z534	2.33	2.4	1.93	0.51	2.81	2.85	1.88	1.39	-0.5	-1.71	1.83	2.72	-0.47	-0.76	1.99	1.6	0.44	-1.2075	-1.2025	0.409466	0.247488	0.135377	1	0.956511	0.731223	
Kalrn	A2CG49	0.68	0.28	0.68	0.25	0.78	0.76	0.52	0.45	0.33	-0.19	0.84	0.74	0.26	0.38	0.41	0.2	0.07	-0.245	0.69846	0.046001	0.202832	1	0.956511	0.787447		
Kalrn	A2CG49-3	7.23	7.88	-0.84	-0.29	-6.01	-6.55	-0.15	-0.71	0.2	-0.12	-0.35	-0.42	-0.3	-0.1	0.75	6.66	1.16	-1.2775	-1.4775	0.280207	0.451073	0.461389	1	0.956511	0.900902	
Kalrn	E90238	-1.02	-0.47	-0.33	-0.91	-1.66	0.01	-2.25	-1.08	3.19	0.27	-1.16	-0.55	-0.44	-0.17	0.1	0.47	-0.5625	1.12	1.225	0.50586	0.225361	0.195202	0.68	1	0.956511	0.87617
Kank2k	Q8X802	-0.33	-0.27	-0.6	-0.83	-0.64	-0.84	-0.61	-0.97	-0.36	-0.25	-0.48	0	-0.11	0.1	0.3	-0.46	-0.2575	0.235	0.315	0.203405	0.277899	0.185154	1	0.956511	0.776843	
Kank3k	Q921P7	0.16	0.44	-0.01	0.56	0.16	0.1	-0.32	-0.29	0.38	1.27	0.47	0.56	0.4	-0.09	0.15	0.27	-0.375	0.3825	-0.1	0.101061	0.167228	0.0560974	1	0.956511	0.947407	
Kank4k	Q8P955	1.24	0.74	0.74	1	0.19	0.3	-0.28	-0.16	0.84	1.85	0.64	0.69	1.15	2.57	0.89	0.58	-0.9175	0.075	0.3675	0.000527	0.015003	0.468492	1	0.956511	0.873596	
Kars	Q8E2P8	-1.61	-1.72	-2.79	-2.66	-1.21	-1.58	-3.17	-2.14	-2.31	-1.57	-2.61	-1.54	-1.92	-1.62	-2.97	-1.17	-0.11	0.0625	0.025	0.884525	0.801725	0.055775	1	0.956511	0.907642	
Kars1	Q9PMN1	-0.53	-0.04	-0.61	-1.86	-0.68	-0.13	-1.91	-0.33	-0.04	0.36	-0.89	-0.36	0.44	0.81	-0.2	-0.22	-0.0225	0.5275	0.9675	0.098022	0.012563	0.051676	1	0.956511	0.658454	
Kar2k	Q6P328	-0.82	-0.51	-2.79	-2.71	0.05	-0.48	-1.56	-2.22	-0.76	-2.85	-2.8	-0.88	-0.26	0.3	-0.86	-0.92	0.555	1.2725	0.373752	0.875546	0.063673	1	0.956511	0.66433		
Kar5k	AOA49A5B	-1.78	-5.51	-0.89	-0.11	-4.38	-3.06	-0.83	-0.5	-0.72	-1.29	-0.75	-3.71	-1.34	-6.16	-0.65	-0.95	-0.02	0.555	0.5675	0.988474	0.675205	0.756076	1	0.956511	0.962333	
Kar7	Q53VQ3-3	0.59	0.51	-0.22	0.53	0.51	0.12	0.4	0.06	-0.1	0.23	0.25	0.17	0.26	0.1	0.41	0.15	-0.1225	0.1175	0.982751	0.622453	0.1322	0.7428	1	0.956511	0.912212	
Katn1k	Q8K0T4	0.21	0.02	-0.08	0.13	0.12	0.18	0.08	0.1	0.48	0.56	0.03	0.21	0.2	0.98	-0.19	-0.03	0.05	0.25	0.17	0.73475	0.216592	0.55537	1	0.956511	0.917092	
Katn2k	Q8BG40	-0.06	-0.28	-0.41	-0.62	-0.07	-0.08	-0.21	-0.31	-0.62	-1.24	-0.23	0.02	-0.6	-0.25	-0.57	-0.55	-0.175	-0.175	-0.15	0.338105	0.567798	0.471641	1	0.956511	0.891144	
Kazn	G3U7V4	0.46	0.33	1.46	1.03	0.11	-0.21	0.66	0.63	0.46	1.9	0.96	0.28	0.25	0.42	0.85	0.55	-0.5225	0.08	-0.3025	0.137658	0.850448	0.332241	1	0.956511	0.845601	
Kazn	Q6P328-2	0.55	0.55	-0.04	0.19	0.9	0.12	0.35	-0.06	0.47	0.49	0.22	0.75	0.58	0.81	0.52	0.06	0.015	0.17	0.18	0.554311	0.445388	0.075277	1	0.956511	0.892134	
Kbltn1k	Q8BNV9	0.34	0.23	0.76	1.17	-0.16	0.08	0.68	0.92	-0.15	0.98	0.77	-0.08	0.73	0.18	0.6	0.54	-0.245	-0.245	-0.4775	0.45607	0.493137	0.215831	1	0.956511	0.787447	
Kbltn2k	G3X9X1	-0.48	-0.96	-1.22	-1.08	-0.97	-0.47	-0.76	-0.86	-1.45	-0.32	-0.86	-0.44	-1.27	-0.98	-0.83	-0.89	0.17	0.1675	-0.0575	0.443165	0.5871	0.804011	1	0.956511	0.971404	
Kbltn3k	Q8BH84	-0.27	0.14	-0.23	0.44	0.69	-0.18	0.45	0.05	-0.5	-0.42	0.04	0.12	-0.43	-0.06	-0.07	0.06	0.3775	-0.005	7.85E-17	0.133813	0.768031	1	1	0.956511	1	
Kbltn4k	Q8H1P9-2	0.92	1.24	0.83	0.82	0.22	0.69	0.63	0.89	1.88	2.92	0.19	0.93	2.48	1.28	0.58	0.22	-0.095	0.705	0.1875	0.576763	0.105533	0.694798	1	0.956511	0.952729	
Kbltn7	G5E8C2	-1.48	-1.44	0.56	-0.39	-1.16	0.45	0.64	0.14	-0.41	0.32	-1.19	-0.68	-0.81	0.31	0.37	0.06	0.4	0.578955	0.912755	0.05758	0.07827	1	0.956511	0.892729		
Kcmf1k	Q8U0Y2	-0.45	-0.25	-0.21	-0.57	-0.38	-0.23	-1.57	0.58	0.97	0.11	-0.44	0.08	0.58	-0.8	-0.32	-0.88	-0.32	0.55	0.05	0.315948	0.147011	0.965274	1	0.956511	0.95927	
Kcn1k	P16388	0.5	1.38	1.71	1.46	1.07	0.36	1.37	1.16	0.09	0.69	1.09	0.37	-0.42	0.83	1.14	1.21	-0.2725	-0.7025	-0.5725	0.422108	0.062782	0.21365	1	0.956511	0.786931	
Kcn2k	P16381	0.92	1.51	1.02	1.17	1.5	0.6	1.11	0.92	0.85	1.01	0.84	0.93	0.51	1.87	0.58	1.07	-0.1225	-0.2475	-0.1475	0.616218	0.217454	0.665433	1	0.956511	0.949825	
Kcn3k	P16394	0.46	0.75	1.29	1.04	1.26	0.68	0.17	1.53	1.95	1.07	0.54	0.57	0.54	0.48	0.39	-0.005	-0.025	0.115	-0.4625	0.982751	0.622453	0.1322	0.7428	1	0.956511	0.786931
Kcn4k	Q61423	0.53	0.46	2.32	0.67	0.36	0.52	1.92	2.51	0.64	2.78	2.06	0.6	0.52	0.03	2.58	2.09	-0.1675	0.205	-0.19	0.813859	0.9723	0.803323	1	0.956511	0.971149	
Kcn6k	Q61923	-0.13	0.32	0.52	0.79	0.42	0.05	0.97	0.8	0.07	0.75	0.71	0.24	-0.4	0.37	0.45	0.44	0.185	0.0675	-0.16	0.520226	0.80452	0.52927	1	0.956511	0.929843	
Kcnab1k	P61343	0.77	0.53	0.18	0.52	0.43	0.83	0.29	0.37	0.24	-0.3	-0.06	0.49	0.18	-0.18	-0.16	0.13	-0.02	-0.4075	-0.5725	0.921253	0.115587	0.021126	1	0.956511	0.621926	
Kcnab2k	P61482	0.59	0.51	0.52	0.53	0.51	0.12	0.4	0.4	0.06	-0.1	0.21	0.23	0.15	0.12	0.13	0.12	-0.3825	-0.42574	0.052071	0.052071	0.052071	0.052071	1	0.956511	0.959127	
Kcnab3k	Q8V7D3	0.02	0.54	0.74	0.5	0.4	0.03	0.84	0.65	-0.41	-0.67	-0.42	-0.25	0.45	0.13	0.36	0.7	0.03	-0.6775	-0.04	0.902786	0.04068	0.864641	1	0.956511	0.977686	
Kcnb1k	Q30717	0.81	0.98	0.77	0.66	1.11	1.17	0.08	0.32	0.76	-1.25	0.54	0.96	1	0.25	0.69	0.3	-0.135	-0.3025	-0.245	0.638222	0.303167	0.306757	1	0.956511	0.832533	
Kcnb2k	A6H8H5	0.77	0.94	1.08	1.57	1.69	0.33	0.48	0.51	0.88	1.44	0.77	0.78	0.17	1.44	0.83	0.69	-0.3375	-0.1225	-0.3075	0.34283	0.633904	0.348777	1	0.956511	0.85278	
KcnC1k	P15388-3	0.46	0.82	1.14	0.72	1.26	0.27	0.54	0.31	0.35	0.43	0.54	-0.03	0.85	0.79	0.77	0.71	-0.19	-0.4625	-0.005	0.493918	0.064407	0.98057	1	0.956511	0.949458	
KcnC2k	Q14B8D	-0.07	-0.11	0.85	0.21	0.41	0.88	0.19	0.28	0.59	0.27	0.01	0.55	-0.1	0.35	0.1	0.05	0.358	0.36	0.30511	0.023006	0.023006	0.023006	1	0.956511	0.959127	
KcnC3k	Q9K0I2	0.78	1.33	0.99	1.05	1.58	0.72	0.68	0.41	0.73	0.56	0.45	0.6	0.04	1.3	0.31	0.72	-0.19	-0.4625	-0.445	0.504181	0.06408	0.173221	1	0.956511	0.76392	
KcnC4k	AOA571B0	-1.18	0.25	0.25	0.39	0.71	0.54	0.6	0.12	0.06	0.01	0.24	0.28	0.96	0.76	0.47	-0.02	0.315	0.02	0.365	0.155594	0.64088	0.200193	1	0.956511	0.78004	
KcnC5k	Q9P129	0.59	0.54	0.52	0.36	0.8	0.75	0.99	0.7	-0.06	1.67	0.6	1.04	-0.31	0.79	0.25	0.46	0.1575	0.16	-0.75	0.37635	0.664993	0.03644	1	0.956511	0.658454	
KcnC6k	Q9Z0V2	1.17	1.67	1.15	0.99	1.12	0.71	1.07	1.09	1.58	1.07	0.57	1.09	0.57	1.09	0.57	1.09	0.57	1.09	0.57	1.09	0.57	1.09	0.57	1	0.956511	0.96118
KcnC7k	Q9Z0V1	1.39	1.53	0.76	0.98	1.65	1.37	0.91	1.01	0.89	-0.48	0.61	1.26	0.5	1.04	0.21</											

KHndBb	Q90209	0.17	-1.17	-0.67	-0.38	0.51	0.69	-0.8	-0.75	-0.26	-0.32	-0.97	0.07	0.07	1.3	-1.5	-0.92	0.425	0.1425	0.25	0.361032	0.683386	0.686384	1	0.956511	0.955729
KHndE9	QJ05L1	1.34	1.35	0.77	0.31	1.14	0.83	1.34	0.81	0.28	0.15	-0.01	0.71	1.08	0.56	0.89	1.22	0.0875	-0.86	-0.005	0.75802	0.052412	0.98674	1	0.956511	0.956154
KHn11	QKCE13	-0.18	-0.38	-0.62	-0.91	-0.29	-0.78	-0.83	-0.71	-0.44	-0.35	-0.72	-0.44	-0.55	-0.96	-0.83	-1.11	0.0075	0.0875	-0.025	0.978889	0.686237	0.853077	1	0.956511	0.976225
KHn13	Q80T74-5	-2.06	-0.71	-0.94	-0.09	-0.09	-0.51	0.38	-0.81	-0.17	-2.74	-0.89	-0.35	-0.67	-2.59	-1.5	-1.05	0.6925	-0.805	-0.5025	0.152014	0.893556	0.364748	1	0.956511	0.858475
KHn2	Q8ZP23	0.57	1.4	0.28	0.11	0.37	0.46	0.92	0.3	-1	-1.44	0.53	0.84	-1.05	-3.28	-0.02	0.3	0.1725	-0.8575	-1.6025	0.632624	0.160699	0.643777	1	0.956511	0.66433
KHn20	Q8KX55	-0.49	-1.99	0.57	0.1	-3.9	-0.14	-1.46	-0.62	2.67	0.06	-0.99	-4.1	-2.9	0.79	-5	-1.0775	0.9075	0.825	0.254243	0.309725	0.556175	1	0.956511	0.917092	
KHn22	Q9JN62	-0.27	-0.35	0.33	0.26	0.44	-0.57	0.26	0.31	0.3	0.64	0.5	-0.14	0.21	0.27	0.01	0.065	0.3	0.255	0.855654	0.465732	0.29313	1	0.956511	0.879165	
KHn26	Q8BGY4	0.54	0.65	0.72	-0.06	0.61	0.11	0.63	0.49	0.77	0.41	0.84	0.64	1.4	0.9	0.52	0.55	-0.0025	0.2025	0.38	0.91444	0.394537	0.210305	1	0.956511	0.786218
KHn26	Q8E126	-0.57	-0.85	-0.21	-0.12	0.14	-0.68	-0.02	-0.2	-1.26	-0.83	0.32	-0.44	-0.91	-0.23	0.04	0.38	0.3025	-0.115	0.2575	0.262105	0.753082	0.437709	1	0.956511	0.883161
KHn36	Q8H124	-0.21	0.27	-0.93	-0.06	0.17	-0.99	-0.29	-0.55	0.46	0.52	-0.68	0.41	0.28	0.76	-0.27	-0.05	0.0775	0.175	0.3825	0.852804	0.651866	0.283145	1	0.956511	0.822669
KHn36	Q8BL16	-0.16	-0.38	-0.62	-0.91	-0.29	-0.78	-0.83	-0.71	-0.44	-0.35	-0.72	-0.44	-0.55	-0.96	-0.83	-1.11	0.0075	0.0875	-0.025	0.978889	0.686237	0.853077	1	0.956511	0.956154
KHn41	A2AUC49	0.64	0.05	-1.04	-0.65	0.21	-1.19	1	-1.04	0.62	0.77	0.07	0.36	0.24	2.57	0.45	0.18	0.1375	-0.101	0.1375	0.831383	0.079588	0.059571	1	0.956511	0.658844
KHn42	Q8BF09	1.03	1.12	1.16	1.24	0.54	1.05	0.25	1.35	-0.26	1.44	0.42	1.41	-0.34	0.91	0.71	0.57	-0.34	-0.385	-0.675	0.213622	0.345604	0.044848	1	0.956511	0.658454
KHn5	E9Q1L2	-1.19	-0.02	1.13	0.3	-1.75	-0.78	1.91	0.64	1.12	0.41	1.49	-0.32	0.51	-0.55	0.99	1.89	-0.05	0.62	0.655	0.95262	0.297561	0.315992	1	0.956511	0.838969
KHn8	A2AHM0	-1.81	-0.89	-0.28	-1.02	-1.3	-1.27	-1.2	-1.65	1.1	-1.82	-1.5	-0.84	-0.57	-1.83	-2.64	-1.61	-0.55	-0.15	-0.6875	0.28815	0.404466	0.19503	1	0.956511	0.776843
KHn9	Q8ZPT1	-2.77	-0.01	-0.74	-0.64	-0.16	-0.84	-0.86	-1.23	-0.06	-0.57	0.01	-0.88	-0.84	-0.85	-0.79	0.0425	0.0025	-0.17	0.893695	0.571095	0.148272	1	0.957515	0.746406	
KHn10	S21WN4-2	-0.35	0.33	-0.14	-0.05	-0.22	-0.97	-0.86	-0.09	-0.82	-0.67	-0.22	-0.07	-2.09	0.85	-0.78	-1.13	-0.4825	-0.3925	-0.735	0.101389	0.444954	0.246414	1	0.956511	0.787447
KHn24	P52200-2	0.6	1.37	0.8	0.93	1.1	0.61	0.46	1.09	-0.11	1.58	0.07	0.09	-0.57	0.25	0.62	-0.11	-0.5175	-0.8125	0.655868	0.224403	0.06644	1	0.956511	0.664936	
KHn24	Q8KX55	-0.49	-0.47	-0.9	-0.75	-0.6	-0.65	-1.02	-1.46	0.35	-0.83	-1.12	0.79	0.75	0.43	-1.13	-1.1	-0.28	0.055	0.39	0.262959	0.870218	0.421688	1	0.956511	0.875736
Kgn1	Q8B67-2	-2.5	-3.17	-2.92	-2.75	-1.17	-2.6	-2.53	-2.56	-2.62	-0.98	-2.43	-2.76	-2.04	-2.86	-2.75	-2.6	0.17	0.6875	0.565	0.502785	0.134204	0.081285	1	0.956511	0.683709
Kgn2	Q8S93	-0.44	0.2	-0.33	-0.44	1.36	-0.42	0.61	-0.6	-0.65	-0.44	-0.01	-1.13	-1.98	1.3	-1.52	-0.8	0.49	-0.805	-0.4975	0.293855	0.134247	0.467403	1	0.956511	0.885213
Kgn2	Q8P960	-1.92	-2.29	0.08	0.46	-1.76	-2.09	-0.99	0.37	-1.11	1.38	0.05	-2.1	-0.94	-1.07	-0.25	-0.5	-0.2	0.4725	0.2275	0.802014	0.610258	0.72926	1	0.956511	0.958635
Kgn24	P52293	-0.83	-0.08	-1.31	-1.15	0.11	-0.48	-0.88	-0.31	-0.19	-1.46	-1.34	-0.37	0.73	0.48	-1.76	-0.14	0.4525	0.0025	0.305	0.196085	0.99508	0.554474	1	0.959285	0.916796
Kgn31	Q35344	0.86	0.16	0.22	0.1	-0.15	0.7	-0.4	0.03	1.32	-0.01	0.2	1.15	0.59	-0.22	0.13	-0.29	0.2925	0.1875	0.337515	0.419123	0.540841	1	0.956511	0.912122	
Kgn4	Q35343	-0.66	-0.29	-0.86	-0.62	-0.64	-0.16	-0.39	-0.43	-0.9	-0.58	-0.71	-0.41	-0.96	-0.04	-0.85	-0.48	0.2025	-0.0425	0.025	0.306244	0.834972	0.294558	1	0.956511	0.988301
Kgn6	Q35345	-0.95	-1.07	-0.54	-0.77	-0.8	-1.09	-0.73	-0.68	-0.68	-0.4	-0.67	-1.2	-0.27	-0.05	-0.4	-0.69	0.0075	0.185	0.48	0.968065	0.507996	0.57483	1	0.956511	0.661738
Kgn16	P70168	-0.17	-0.4	-0.02	-0.32	-0.21	0.01	-0.05	-0.1	-0.42	-0.05	-0.34	-0.14	-0.15	-0.45	-0.24	5.896	-0.17	-0.1025	-1	0.654621	0.958483	1	0.956511	0.930093	
Kgn1	Q35341	0.15	-0.18	0.12	0.13	-0.27	-0.09	0.08	0.04	0.26	0.17	0.22	0.01	0.91	0.64	0.61	0.02	-0.115	0.11	0.49	0.498868	0.526465	0.088529	1	0.956511	0.665034
Kn6	P12883-2	1.17	1.35	1.27	1.17	1.48	1.48	1.48	1.42	0.83	0.59	0.01	0.57	1.2	0.45	0.14	1.42	0.2945	-0.11	0.2975	0.105429	0.680853	0.519587	1	0.956511	0.951987
Kn1	V9GXJ9	0.21	-0.59	-0.18	0.38	0.04	-0.35	0.58	-0.16	-1.28	-0.57	0.08	-0.12	-0.94	0.73	0.55	0.09	0.0725	-0.4275	0.1525	0.85048	0.266101	0.315227	1	0.956511	0.951806
Kn1	A0A0K2GJ2	0.58	0.39	-0.2	0.04	0.1	0.48	-0.25	-0.2	1.27	0.22	-0.64	0.15	1.12	0.75	-0.8	-0.7	0.0475	-0.11	0.507774	0.907445	0.82199	1	0.956511	0.972768	
Kn1	Q8BGA5	0.58	0.4	1.89	0.39	0.1	0.46	1.69	1.37	1.54	0.02	1.72	0.24	2.52	0.42	1.76	2.76	0.29	0.265	1.25	0.60334	0.65221	0.880213	1	0.956511	0.881327
Kn12	24V093	-1.66	-0.62	0.31	-0.86	0.04	-0.16	-0.84	-0.03	-0.04	-0.76	-0.57	0.01	-0.88	-0.84	-0.85	-0.79	0.5075	-0.105	0.085	0.260488	0.156463	0.048021	1	0.956511	0.976225
Kn13a	Q8KY02	-0.71	-0.01	-0.39	-0.34	-0.23	-0.18	-0.83	-0.34	-0.07	-0.97	-0.42	-0.49	0	0.05	-0.58	-0.85	-0.0325	-0.125	0.0175	0.886168	0.626671	0.950594	1	0.956511	0.992476
Kn13	Q3UV17	-1.52	-0.28	0.35	-1.84	1.1	2.09	0.14	-1.43	-1.64	0.42	1.31	-1.22	-0.32	-2.3	-1.7	0.01	1.2975	0.54	-0.255	0.140471	0.495457	0.110667	1	0.956511	0.957819
Kn1	E9REZ	-0.68	-7.05	-4.72	-4.47	-6.84	-7.11	-4.82	-5.31	-6.96	-6.19	-4.83	-5.89	-3.89	-8.77	-5.51	-5.31	-0.215	-0.1625	-0.065	0.799081	0.828608	0.95337	1	0.956511	0.992476
Kn15p-1	A2AS91	-3.59	-4.8	-4.89	-4.54	-2.2	-3.78	-5.01	-1.95	-4.99	-4.45	-2.76	-2.22	-1.86	-3.4	-2.6	-1.45	0.01	0.0775	0.800241	0.520532	0.898828	1	0.956511	0.983509	
Kn18a2	A0A0A0M6	0.06	0.77	-1.08	-0.47	0.76	0.49	0.51	-0.73	0.52	-1.06	-0.12	0.24	-0.01	-0.29	0.65	0.07	0.4375	0.075	0.25	0.371114	0.878707	0.576161	1	0.956511	0.917092
Ks1	Q61097-2	0.16	1.63	0.27	0.09	0.32	0.31	0.24	0.07	0.27	0.39	0.11	0.42	0.77	-0.21	0.05	0.08	-0.3025	-0.2	-0.365	0.40489	0.513453	0.379535	1	0.956511	0.860984
Ks2	MQ0W59	-0.36	-1.19	0.37	-0.08	-0.11	0.17	0.34	0.12	-0.12	0.37	0.17	0.31	0.22	-0.07	0.35	0.47	0.195	0.0625	0.3075	0.364759	0.797717	0.214056	1	0.956511	0.786931
Kn12	Q8KX55	0.27	-0.65	0.77	-0.61	-1.06	0.15	0.89	-0.28	0.74	0.98	0.76	0.11	1.62	-0.98	-0.1	0.43	0.06	0.5225	0.1175	0.895111	0.317605	0.83372	1	0.956511	0.975737
Kn1	A0A087W6	-0.05	-0.04	-0.1	-0.36	-0.1	-0.59	-0.48	0.1	-0.46	-0.46	-0.46	-0.46	-0.46	-0.46	-0.46	1.1	0.023191	0.0	0.650161	0.650161	0.514569	1	0.956511	0.975737	
Kn1	A0A087W6	-1.43	-0.91	-1.98	-0.75	-0.43	-1.02	-0.56	-1.93	-1.03	-1.12	-1.54	-0.8	-1.36	-0.71	-0.8	-0.52	0.2825	0.14	0.42	0.499324	0.651237	0.229532	1	0.956511	0.874471
Kn12	E9Q40P	0.02	0.34	0.25	0.39	0.43	-0.28	-0.49	1.03	-0.75	0.56	-0.04	-0.17	0.15	-0.2	-0.11	0.29	-0.0425	-0.135	-0.1825	0.903676	0.30778	0.40753	1	0.956511	0.874084
Ky1	Q8B7Y1	0.01	-0.03	0.41	0.37	0.08	-0.49	0.48	0.5	-0.44	0.18	-0.05	-0.6	-0.59	-0.12	-0.16	0.18	-0.0475	-0.4175	-0.3625	0.858414	0.109777	0.152002	1	0.956511	0.750422
Ky1a2	Q71H5-2	0.36	0.05	0.74	0.97	0.17	0.25	0.67	0.88	-0.09	0.59	0.12	0.12	0.18	-0.27	0.25	0.12	0.0425	-0.1425	-0.6375	0.4492	0.055466	0.255917	1	0.956511	0.976225
L1cam	Q8G613	1.63	1.23	1.44	1.86	0.94	1.55	1.79	2.16	1.53	1.73	1.83	2.11	1.01	1.26	1.79	1.54	0.07	0.26	-0.14	0.80916					

Lmtk2	C3I7Y06	0.77	0.98	0.74	0.69	1.12	0.49	0.61	0.46	0.45	0.69	0.77	0.97	0.68	1	0.63	0.62	-0.125	-0.075	-0.0625	0.535579	0.68771	0.74157	1	0.96511	0.958796	
Lmtk3	AD3AB2WC	0.29	0.11	0.4	0.32	0.11	0.43	0.31	0.36	0.54	0.6	0.37	0.29	1.21	0.85	0.52	0.31	0.0225	0.17	0.4425	0.88632	0.34779	0.99627	1	0.96511	0.698156	
Lmtk3	AD3AB2WC	0.29	0.11	0.4	0.32	0.11	0.43	0.31	0.36	0.54	0.6	0.37	0.29	1.21	0.85	0.52	0.31	0.0225	0.17	0.4425	0.88632	0.34779	0.99627	1	0.96511	0.698156	
Lmtk3	AD3AB2WC	0.29	0.11	0.4	0.32	0.11	0.43	0.31	0.36	0.54	0.6	0.37	0.29	1.21	0.85	0.52	0.31	0.0225	0.17	0.4425	0.88632	0.34779	0.99627	1	0.96511	0.698156	
Lmpep	Q8C129	0.06	-0.02	-0.7	-0.75	0.18	0.16	-0.48	-0.97	0.38	-0.58	-0.86	0.35	0.28	0.77	-0.8	-0.75	0.075	0.175	-0.275	0.825272	0.640373	0.09479	1	0.96511	0.929843	
Lmpep	Q7T095	-0.04	0.5	0.51	0.51	0.7	0.06	0.66	0.65	0.1	0.87	0.48	0.29	0.09	1.33	0.71	0.8	0.1475	0.065	0.3625	0.519294	0.787604	0.248454	1	0.96511	0.803985	
Lmop1	Q8CGK3	1.06	0.83	0.95	0.94	0.16	0.95	0.64	1.07	0.43	1.07	1.15	0.87	-0.08	0.24	0.21	0.24	-0.24	-0.065	-0.7925	0.390511	0.758001	0.001796	1	0.96511	0.419079	
Lmop1	Q9DBN5	-0.45	0.03	0.66	0.34	-0.06	0.17	0.85	-0.85	-1.18	-0.82	-0.72	0.54	-1.43	-0.29	-1.07	0.61	0.1825	-0.105	-0.4415	0.604051	0.811531	0.275419	1	0.96511	0.676647	
Lmop2	F6E264	-2.09	-2.26	-3.03	-2.19	-2.38	-2.52	-3.61	-3.03	-2.11	-0.77	0.05	-1.43	-1.12	-1.58	-1.45	-3.21	-0.4925	1.3275	0.5525	0.173393	0.020264	0.269509	1	0.96511	0.821231	
Lmop2	P61793-2	0.61	0.37	1.02	0.67	1.16	0.73	0.75	0.45	0.72	0.39	0.7	0.31	0.73	-0.29	0.08	0.54	-0.225	-0.1375	-0.4025	0.379727	0.522158	0.181785	1	0.96511	0.776002	
Lpcat1	C3I7D02	-0.36	0.01	0.54	-0.7	0.61	0.26	-0.27	-0.58	-0.14	-0.31	-0.83	-0.15	-0.07	0.11	-0.55	0.23	0.4025	0.04	0.2125	0.207643	0.871401	0.394182	1	0.96511	0.86589	
Lpcat1	Q8BY96	-0.03	-0.03	0.15	0.21	0.41	0.02	0.13	0.29	0.59	-0.23	0.01	0.41	0.61	1.02	0.23	0.13	-0.2325	-0.05	0.18	0.174671	0.823882	0.155458	1	0.96511	0.803442	
Lpcat1	Q91V01	-0.08	0.38	0.39	0.26	0.44	-0.01	0.61	0.18	0.39	0.34	-0.02	0.09	0.48	0.4	0.26	-0.077	0.2875	0.1375	0.25	0.1163	0.557384	0.113558	1	0.96511	0.834523	
Lpcat1	Q6NVG1	0.4	0.32	0.2	0.33	0.86	0.51	0.4	0.52	-0.05	0.08	0.18	0.24	-0.15	0.2	0.21	0.36	0.26	-0.2	-0.1575	0.142115	0.242041	0.420034	1	0.96511	0.875558	
Lpcat1	E9QL08	0.76	-0.37	-0.23	-0.2	0.1	1.18	0.15	-0.19	0.3	-0.45	-0.39	0.7	0.88	-0.51	0.64	0.23	0.32	0.05	0.32	0.405662	0.820703	0.418771	1	0.96511	0.875558	
Lpcat1	AD3A17VU	-1.23	-0.37	-0.4	0.29	-1.71	-0.49	-0.43	1.09	-1.04	1.02	0.14	-1.42	-0.44	0.18	0.26	0.78	0.4024	0.1025	0.6225	0.194001	0.861208	0.13488	1	0.96511	0.731223	
Lpm2	E9PWMD	0.35	0.66	0.78	-0.87	0.55	0.17	0.85	-0.85	-1.18	-0.82	-0.72	0.54	-1.43	-0.29	-1.07	0.61	0.1825	-0.105	-0.4415	0.604051	0.811531	0.275419	1	0.96511	0.676647	
Lpp	Q8BFW7	-0.12	-0.19	-0.88	-0.62	-0.29	-0.25	0.05	0.38	-0.18	-0.52	-0.47	-0.48	-0.31	0.31	-0.99	-0.82	0.235	0.28	7.85E-17	0.311065	0.360126	1	1	0.96511	1	
Ltrd1	AD00A4U1	4.9	3.71	7.62	4.03	3.78	5.15	7.81	7.46	0.75	4.7	7.18	4.91	1.86	0	8.78	8.78	0.885	-0.68	-0.23	0.408832	0.63712	0.915579	1	0.96511	0.985656	
Ltrd2	D3YX5	0.52	1.04	0.72	1.37	1.1	0.46	0.59	1.58	1.74	3.29	1.28	0.7	0.4	2.62	1.83	1.32	0.02	0.84	0.64	0.94776	0.46821	0.915996	1	0.96511	0.777117	
Ltrb	E9Q3V4	-0.36	-0.25	-0.40	-0.39	0.07	-0.58	0.51	-0.74	-0.28	-0.03	-0.53	-0.22	-0.21	0	-0.71	-0.57	-0.0075	-0.1075	-7.9E-17	0.749587	0.555155	1	1	0.96511	1	
Lch1	P6Z046	0.48	0.62	0.39	0.39	0.73	0.25	0.74	-0.04	0.12	0.29	0.08	0.29	-0.17	0.35	0.29	0.65	-0.05	-0.275	-0.19	0.821629	0.121618	0.408973	1	0.96511	0.874356	
Lch2	F6VQ19	-0.26	-0.8	-0.12	-0.31	-0.39	-0.3	0.07	-0.31	-0.01	0.06	-0.2	-0.47	-0.63	0.35	-0.28	0.51	0.14	0.2175	0.105	0.508205	0.346142	0.711592	1	0.96511	0.957969	
Lch3	B2RKP1	0.32	0.75	1.2	0.83	0.23	0.19	1.09	0.76	0.29	1.75	1.4	-0.04	0.03	0.43	0.66	0.97	-0.2075	0.075	-0.2525	0.472474	0.86485	0.388329	1	0.96511	0.864493	
Lfn1	C2WFF1	1.8	1.49	1.41	0.97	1.87	1.7	1.53	1.22	0.26	0.75	1.36	2.15	-0.09	0.77	1.12	1.49	0.1625	-0.2875	-0.595	0.498921	0.499388	0.135429	1	0.96511	0.731223	
Lfn2	Q8GT69	0.83	0.72	0.76	0.58	0.58	0.8	0.81	1.27	0.38	0	1.03	0.92	-0.21	0.36	0.85	1.19	0.1425	-0.14	-0.175	0.464933	0.598844	0.583685	1	0.96511	0.927734	
Lfn3	Q8BY13	1.14	1.48	1.48	1.06	1.35	1.17	1.32	1.02	0.5	0.41	1.39	1.34	0.68	0.93	1.18	1.18	-0.075	-0.38	-0.2975	0.67789	0.217668	0.193009	1	0.96511	0.777764	
Lfn4	Q8XU18	0.56	0.93	0.68	0.84	0.87	0.6	1.15	0.83	1.45	0.91	0.66	0.95	1.85	0.93	0.58	0.65	0.11	0.24	0.25	0.55164	0.295012	0.432541	1	0.96511	0.879165	
Lfn5	Q8BXV0	0.18	0.11	0.33	0.38	0.36	0.37	0.85	0.38	-0.24	0.2	0.66	0.39	0.05	-0.25	0.27	0.25	0.29	0.0025	-0.17	0.138073	0.991363	0.408496	1	0.96511	0.874556	
Lfn6	G5E8B8	1.19	1.19	1.15	0.88	2.33	0.83	1.14	0.75	-0.04	-0.33	1.3	1.35	1.09	1.62	1.54	1.07	-0.3325	-0.2475	0.633676	0.229635	0.630606	0.930143	1	0.96511	0.921043	
Lfp1	P70193	0.1	0.42	0.79	1.08	-0.1	-0.17	0.74	0.77	0.98	1.23	0.42	-0.05	0.67	0.29	1.08	1.18	-0.2875	0.0475	0.2075	0.38889	0.892165	0.504008	1	0.96511	0.901002	
Lfp1	AD00A4U1	0	-0.08	-0.13	-0.19	0.02	0.11	-0.01	-0.14	-0.33	-0.23	-0.09	0.28	-0.1	-0.01	-0.12	-0.1	0.095	0.0075	0.075	0.52227	0.969078	0.916686	1	0.96511	0.985656	
Lfp1	Q8CB67	-1.02	-1.4	-0.78	-1.03	-1.21	-1.01	-0.74	-0.52	-1.55	0.54	-0.67	-0.59	-0.24	-0.27	-0.74	-0.07	0.1875	0.49	0.7275	0.406575	0.266434	0.012053	1	0.96511	0.566767	
Lfp1b	A2AP5	-0.18	0.05	0.98	0.7	0.9	0.45	0.31	-0.27	-0.06	-0.61	-0.02	0.15	0.43	-0.29	-1.07	0.61	0.1825	-0.105	-0.4415	0.604051	0.811531	0.275419	1	0.96511	0.676647	
Lfp4	Q8V5E-2	0.23	0.45	0.72	0.45	0.15	0.89	0.31	0.5	1.67	-0.16	0.62	0.43	1.97	0.11	0.43	0.32	-1.6E-16	0.1775	0.245	1	0.642565	0.56207	1	0.96511	0.920024	
Lfp6	Q8BS72	-0.16	-0.11	0.66	0.73	0.12	-0.04	0.84	0.79	0.64	1.73	0.39	0.12	0.24	0.72	0.37	0.61	0.1475	0.44	0.205	0.649048	0.296501	0.476008	1	0.96511	0.892174	
Lfp6	B1K4X4	0.55	0.68	0.81	0.54	0.52	0.36	-0.13	0.28	0.67	0.72	0.56	0.51	1.21	0.92	0.47	0.29	-0.3875	-0.03	0.0775	0.068487	0.855881	0.78772	1	0.96511	0.963116	
Lfp6b1	P53302	-0.17	1.19	0.59	1.08	0.82	1.39	1.58	1.1	1.2	0.71	-0.53	0.97	1.18	1.15	0.27	0.08	-0.075	-0.1075	-7.9E-17	0.749587	0.555155	1	1	0.96511	0.985656	
Lfp6b	Q8P666	0.33	0.01	0.32	0.31	-0.17	0.62	0.5	0.42	0.2	0.52	0.3	0.14	0.23	-0.04	0.29	0.56	0.1	0.0475	0.075	0.646716	0.792265	0.932443	1	0.96511	0.989713	
Lrc1	Q8V0V1	1.11	1.29	0.91	1.08	0.7	0.77	1.27	0.33	1.52	1.11	0.62	1.08	0.65	0.34	1.02	1.39	-0.33	-0.015	-0.2475	0.17357	0.948244	0.365119	1	0.96511	0.958475	
Lrc10b	G3XAS0	0.13	0.65	0.87	1.08	-0.88	-0.63	1.95	0.65	0.82	0.25	0.05	1.52	0.08	0.63	0.46	-0.66	-0.34	-0.01	0.179455	0.239239	0.977907	1	0.96511	0.883727		
Lrc14	Q8VCL6	-0.16	0.03	-0.74	-0.48	0.34	0.55	-0.33	-0.56	0.51	-0.58	-0.64	0.16	0.33	0.51	-1.07	-0.42	0.3175	0.13	0.105	0.440006	0.743888	0.934744	1	0.96511	0.927768	
Lrc20	Q8CT70	-0.48	-0.16	-0.66	-0.62	-1.29	-0.48	-0.58	-1.4	-0.68	-1.4	-0.68	-1.4	-0.68	-1.4	-0.68	-1.4	-0.68	-1.4	-0.68	-1.4	-0.68	-1.4	-0.68	1	0.96511	0.927768
Lrc24	Q8BHA1	-0.58	-0.36	-1.21	-1.28	-0.42	-0.12	-0.88	-0.59	-0.15	-0.82	-0.62	0	-0.15	-0.06	-0.68	-0.59	0.35	0.87	0.487	0.28118	0.930633	0.122322	1	0.96511	0.721448	
Lrc4	Q9PH11	0.36	1.56	0.14	0.69	0.93	0.27	0.53	0.29	0.08	-1	0.16	0.62	0	-0.19	-0.83	0.24	-0.1825	-0.2725	-0.8825	0.590854	0.192288	0.041621	1	0.96511	0.658454	
Lrc40	AD00A4U1	-0.4	-0.43	-0.27	-0.26	-0.31	-0.37	0.01	-0.06	-0.08	0	-0.14	-0.25	-0.1	-0.17	-0.37	-0.02	0.1575	0.2225	0.175	0.345899	0.121138	0.342378	1	0.96511	0.848473	
Lrc47	Q505F5	-0.38	0.05	0.53	0.11	1.04	0.23	0.51	0.59	0.53	1.81	0.58	1.3	1.87	1.45	1.62	1.45	-0.075	-0.114	-0.12	0.683795	0.689079	0.763627	1	0.96511	0.927768	
Lrc49																											

Mag3	G5E8T6	1	1.08	0.82	0.97	1.05	1.02	0.83	0.82	0.86	0.88	0.94	0.52	0.76	0.67	0.86	-0.0375	-0.0825	-0.265	0.806425	0.60375	0.163731	1	0.99551	0.759484		
Mag9	P61327	1.3	-0.3	-0.85	-1.23	-0.57	0.58	-1.52	-0.68	-1.6	-2.34	-1.12	0.08	-1.68	-1.4	-1	-1.97	-0.775	-0.975	-1.1525	0.668428	0.179884	0.06143	1	0.99511	0.66433	
Mag11	A2ADH1	-1	-0.08	0.58	0.24	1.07	0.05	0.76	1.15	0.2	-0.79	0.19	0.39	1.08	1.72	0.7375	0.0675	0.845	0.042181	0.859168	0.95077	0.1	0.99511	0.661738			
Mag11	Q8H8E8	0.53	0.62	-0.29	-0.24	0.58	0.68	-0.25	-0.3	0.29	-0.27	0.37	0.59	0.16	-0.42	-0.41	0.0225	-0.0575	-0.175	0.947935	0.857174	0.613607	1	0.99511	0.935813		
Malu1	Q9CWC0	0.09	0.82	1.02	0.77	0.78	0.23	0.98	0.65	0.73	0.61	0.82	0.26	0.34	0.77	0.5	0.84	-0.015	-0.07	-0.0625	0.954735	0.785701	0.811429	1	0.99511	0.972642	
Man11	P43700	0.02	0.6	-0.13	0.31	-0.12	0.1	-0.21	0.09	0.79	1.48	-0.51	0.13	1	0.73	0.16	0.52	-0.235	0.2725	0.4775	0.276701	0.533384	0.139039	1	0.99511	0.73493	
Man1a	P43700	-1	-1.5	-1	-1.04	-0.92	-1.27	-1.36	-1.14	-1.57	-1.3	-1.32	0.92	1.4	0.5	1.75	0.82	-0.87	-0.51	0.71	-0.005	0.2975	0.480514	0.758828	1	0.99511	0.674038
Man1a2	P3909B-2	-1.06	-1.22	-1.38	-1.05	-1.11	-1.23	-0.04	-0.79	-1.98	-1.1	-0.81	-1.08	-1.03	-1.11	-0.04	0.3	0.635	-0.0065	0.7075	0.056219	0.815774	0.074068	1	0.99511	0.671911	
Man1b1	A2A1U5	-1.24	-2.34	-1.23	-0.65	-1.58	-1.4	-0.68	-0.41	-1.07	-0.31	-0.77	-1.87	-0.8	-0.98	-0.42	-0.22	0.3475	0.36	0.76	0.420315	0.435327	0.073598	1	0.99511	0.666435	
Man2a1	P27046	-1.8	-1.13	-5.86	-1.71	-0.99	-0.97	-6.86	-5.55	-0.28	-1.18	-4.98	-1.53	-0.53	-1.81	-4.79	-8.25	-0.99675	0.88825	-1.22	0.567536	0.53233	0.504268	1	0.99511	0.901002	
Man2a2	Q8BR9B	-0.12	0.35	-0.68	-0.54	-0.22	0.16	-0.47	-0.58	-0.31	0.58	-0.11	0.26	0.02	0.12	-0.64	-0.49	-0.29	0.305	0.107819	0.348855	0.051737	-0.3	0.99511	0.855329		
Man2b1	Q91595	-0.2	0.35	-0.64	-0.65	-0.17	0.16	0.27	-0.18	-0.58	-0.31	0.58	-0.11	0.26	0.02	0.12	-0.64	-0.49	-0.29	0.3075	0.353009	0.170172	0.903876	1	0.99511	0.855378	
Man2b2	Q5A782	-0.26	-0.21	-0.02	-0.24	-0.11	-0.36	0.36	0.04	0.25	0.19	0.05	-0.08	0.56	0.21	0.14	0.32	0.165	0.285	0.49	0.408904	0.121247	0.02654	1	0.99511	0.634876	
Man2c1	FW8E11	-0.23	-0.21	-0.01	-0.02	-0.4	-0.07	-0.58	-0.07	-0.12	0.29	-0.37	-0.35	0.01	-0.11	-0.59	-0.76	-0.1725	-0.03	-0.255	0.36251	0.886271	0.298326	1	0.99511	0.928326	
Man3a	A0A0A4005	-1.09	-1.17	-1.33	-0.95	-1.25	-0.87	-1.15	-1.38	-1.19	-0.17	-1.05	-1.26	-1.29	-1.09	-1.48	-1.01	0.0225	0.3525	-0.0325	0.940404	0.222466	0.87487	1	0.99511	0.979626	
Man3b1	A2B6C7	2.44	0.83	0.65	-0.62	0.02	2.54	2.18	0.83	1.56	0.14	0.5	1.75	0.82	1.89	2.18	3.22	1.0075	0.5925	1.8525	0.133883	0.527137	0.015491	1	0.99511	0.589387	
Man3b2	Q6XN42	0.05	0.17	-0.09	-1.5	-0.23	-0.93	-1.01	-0.25	0.02	0.26	-1.21	0.85	0.36	-0.61	0.47	-0.27	-0.1775	0.4075	0.045444	0.333463	0.339933	0.1	0.99511	0.848092		
Man3b3	Q6P110	-2.96	-3.91	-1.18	-0.77	-3.16	-2.19	-1.59	-0.95	-1.86	-1.03	-1.21	-2.78	-0.15	-3.99	-0.79	-0.99	0.3075	0.56	0.8	0.686904	0.448361	0.426253	1	0.99511	0.87873	
Man4	Q8D278	0.04	0.02	-0.7	-1.14	0.8	-1.1	-0.08	-0.44	-0.73	-1.3	-0.98	-0.25	-0.03	-0.23	0.55	0.37	0.49	-0.245	0.01	0.215149	0.562834	0.100233	1	0.99511	0.698156	
Man4a	Q6A113	1.72	1.24	1.21	0.94	1.71	1.83	1.58	1.32	0.19	0.36	1.25	1.46	-0.07	0.62	0.07	0.22	0.3325	-0.4625	-0.5925	0.155645	0.207811	0.080646	1	0.99511	0.698156	
Man4b	Q8BW75	1.01	0.69	0.74	0.74	1.07	1.15	0.91	0.84	0.16	0.35	0.8	0.71	0.14	0.7	0.44	0.51	0.1975	-0.29	-0.4175	0.243221	0.19138	0.10437	1	0.99511	0.702979	
Man4a1	A2ARP8	-0.18	-0.64	-0.44	-0.49	-0.98	-0.99	-0.75	-0.73	-0.72	-0.37	-0.72	-0.37	-0.62	-0.53	-0.64	-0.9	-0.425	-0.0975	-0.235	0.032932	0.62137	0.249405	1	0.99511	0.804913	
Man4b1	P14873	-0.72	-0.52	0.2	0.22	-1.07	-1.15	-0.06	0.17	-0.38	0.24	0.02	-0.43	-0.16	-0.35	0.21	-0.22	-0.3225	0.0675	0.075	0.423212	0.820978	0.795044	1	0.99511	0.969498	
Man4b1a3a	Q31VU7	-0.77	-0.72	-1.14	-0.75	-0.53	-1.07	-0.54	-0.96	-1.17	-1.03	-0.8	-0.84	-0.99	-0.06	-0.77	-0.99	0.07	-0.115	0.1425	0.731076	0.547252	0.956621	1	0.99511	0.929911	
Man4b1a3b	Q3CVC6	-0.86	-0.27	-0.93	-0.87	-0.39	-0.74	-0.4	-0.71	0.56	-0.89	-0.9	-0.83	-0.41	-0.06	-1.17	-1.21	0.1725	0.0175	0.225	0.420742	0.567913	0.95614	1	0.99511	0.929717	
Man4b1	Q8C052	0.13	-0.17	-0.01	-0.17	0.6	0.06	-0.8	-0.29	0.23	0.65	-0.23	0.2	0.84	-0.66	-0.08	-0.57	-0.3525	-0.2675	-0.0625	0.141287	0.258367	0.857884	1	0.99511	0.976225	
Mag2	G1UJ22	-2.61	-2.67	-0.9	-1.15	-3.58	-3.12	-0.79	-1.27	-2.61	-1.4	-1.04	-2.75	-2.51	-2.49	-1.91	-2.26	-0.47	-0.175	-0.46	0.518347	0.840501	0.332578	1	0.99511	0.845601	
Mag2a	A0A0A4001	-1.84	-1.65	-1.48	-1.71	-2.24	-2.19	-1.8	-1.58	-2.02	-1.47	-1.78	-1.63	-1.45	-1.14	-1.93	-2.22	-0.3325	-0.105	-0.321287	0.571458	0.058517	0.957222	1	0.99511	0.972722	
Mag2b1	P13198	1.21	0.43	1.08	1.53	0.41	1.13	1.22	1.45	0.01	1.63	0.95	0.37	0.75	1.06	1.18	0.2	0.075	0.374721	0.3422	0.29851	0.058517	0.845749	1	0.99511	0.845749	
Mag2b2	Q91K57	0.3	0.25	0.38	0.09	0.5	0.12	0.18	0.29	-0.17	-0.17	0.25	0.28	-0.1	0.09	0.02	0.22	0.1715	-0.2075	-0.1975	0.914247	0.300751	0.291217	1	0.99511	0.825497	
Mag2b3	Q09110	1.08	3	1.27	1.28	2.38	1.22	1.32	1.48	2.12	1.91	1.24	2.02	2.77	4.1	1.88	1.46	-0.425	0.18	0.91	0.930318	0.699563	0.191984	1	0.99511	0.780004	
Mag2b4	P47809	0.35	-0.2	0.39	0.25	-0.07	0.44	0.21	0.34	-0.45	-0.14	0.44	0.32	-0.52	0.19	1	0.11	0.0325	-0.155	-0.3325	0.874202	0.561807	0.297236	1	0.99511	0.785138	
Mag2b5	Q9VU57	-0.61	0.15	-1.05	-1.01	-1.23	-1.21	-1.21	-0.85	-0.75	-0.07	0.38	-0.8	-0.45	-0.38	-0.45	-0.19	0.0275	0.885584	0.1	0.118232	0.199992	0.9236	1	0.99511	0.906156	
Mag2b6	P70236	-0.38	-0.29	-0.05	-0.56	-0.39	-0.23	-0.63	-0.13	-0.64	-0.12	-0.16	-0.18	-0.58	-0.26	-0.29	-0.48	-0.025	0.105	-0.0825	0.895529	0.642149	0.975999	1	0.99511	0.955402	
Mag2b7	Q8CE90-2	1.36	1.19	0.02	-0.07	1.09	1.5	-0.67	-0.08	0.78	0.61	-0.13	1.28	0.2	1.03	-0.8	-0.32	-0.165	0.01	-0.5975	0.774636	0.982207	0.257132	1	0.99511	0.811777	
Mag2b10	D13YXK8	0.4	0.21	0.49	0.58	0.36	0.27	0.19	0.13	0.74	0.28	0.24	0.39	0.67	0.48	0.03	0.1	-0.1825	-0.0075	-0.0875	0.26702	0.968887	0.690586	1	0.99511	0.955729	
Mag2b11	Q8D066	-0.18	-0.14	0.21	0.74	0.77	-0.8	0.13	0.32	0.56	0.36	0.5	1.46	-1.08	0.33	0.72	0.275	0.14	0.375	0.385747	0.665754	0.331132	0.74	1	0.99511	0.955729	
Mag2b13	Q6O700	-0.08	0.28	0.77	0.71	-0.27	1.27	0.56	0.45	1.43	0.17	0.97	1.19	2	0.36	1.2	1.04	0.0825	-0.27	0.73	0.817493	0.458993	0.082407	1	0.99511	0.688805	
Mag2b13	Q1HXK5	0.67	-1	0.35	0.42	-2.5	0.82	-0.16	0.13	0.48	0.16	0.46	0.51	0.87	-2.59	0.38	-0.3	-0.5375	0.2975	-0.52	0.471732	0.432363	0.505013	1	0.99511	0.901074	
Mag2b32	G5E8L8	-0.41	0.05	-0.52	-0.24	-1.34	-0.75	-0.87	-0.5	0.95	1.64	-0.09	0.05	2.57	-1.93	0.38	0.88	-0.585	0.9175	0.755	0.03182	0.47125	0.381472	1	0.99511	0.860984	
Mag2b30	Q9S54-2	-0.75	-0.94	-1.25	-0.38	-0.73	-1.31	0.39	-0.55	-0.29	-0.09	-0.77	-0.82	-0.95	-1.7	-1.43	-0.59	0.3	-0.005	-0.45	0.376785	0.980592	0.445244	1	0.99511	0.884817	
Mag2b4	Q0B648	-0.04	-0.46	-0.06	-0.08	-0.33	-0.22	-0.05	0.04	-0.07	-0.06	-0.74	-0.1	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.1075	0.415001	0.781166	0.23682	1	0.99511	0.938268	
Mag2b5	EP9W69	-0.01	0.3	0.63	0.36	0.4	0.04	0.07	0.05	0.24	0.57	0.38	0.21	0.52	0.63	-0.02	0.17	-0.18	0.03	0.005	0.36544	0.882266	0.98321	1	0.99511	0.959445	
Mag2b7	Q62073	0.88	0.4	0.34	0.33	0.26	0.93	1.09	0.29	1.26	0.82	0.36	0.95	1.2	0.36	0.31	0.69	0.105	0.36	0.1525	0.709977	0.176846	0.573792	1	0.99511	0.925747	
Mag2b39	A0A11YV0	0.33	0.57	0.69	0.71	0.96	0.01	0.53	0.59	0.3	0.98	0.74	0.82	0.09	0.05	0.18	0.52	-0.0525	0.135	-0.265	0.821488	0.528517	0.131049	1	0.99511	0.835247	
Mag2b4	EP9443	-0.85	-1.21	-1.1	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	0.24	0.295172	0.230091	0.341158	1	0.99511	0.925747	
Mag2b4	P27546-2	-0.91	-0.77	-0.39	-0.48	-1.03	-1.33	-0.89	-0.88	-0.46	-0.11	-0.53	-0.69	-0.21	-0.54	-0.51	-0.81	-0.395	0.								

Mmh2	P08249	-0.46	-0.82	0.01	0.23	-0.86	-0.27	0.03	0.14	-0.85	0.6	-0.06	-0.6	-0.86	-0.64	-0.4	-0.24	0.02	0.0325	-0.275	0.049862	0.932424	0.354292	1	0.99675	0.855029	
Mdk	P12025	-2.01	-1.95	-2.3	-2.9	-2.3	-0.85	-0.32	-2.89	-0.76	-1.08	-2.63	-1.12	1.15	-3.77	-1.56	-1.86	0.7	0.8925	0.78	0.251184	0.071376	0.401993	1	0.99611	0.874811	
Mdm1	E92081	-0.18	-0.17	0.29	-0.32	-1.66	-0.5	0.16	-0.71	-0.12	0.35	-0.27	0.13	0.15	0.49	-0.12	0.23	-0.2925	0.4975	0.825	0.448329	0.035388	0.961424	1	0.99611	0.862517	
Mdm4	A00487FW	-1.71	-0.82	-1.03	-1.12	-1.4	-1.67	-1.28	-1.39	0.17	0.69	-0.35	-0.85	1.3	0.66	-0.6	-0.74	-0.515	0.835	1.075	0.147888	0.085132	0.07659	1	0.99611	0.675786	
Mdm1	J30CMC5	-2.04	-2.89	-0.85	-0.53	-3.17	-2.72	-0.5	-0.87	0.64	-0.41	-0.63	-0.49	1.21	-2.91	-0.81	-0.81	-0.25	-0.2375	0.8855	0.8875	0.579634	0.286363	0.342188	1	0.99611	0.848473
Mdm1	Q90967	-0.49	-0.11	-0.34	-0.77	-0.54	-0.7	-0.34	0.3	-0.14	-0.56	0.11	-0.81	0.14	-0.28	0.95	-0.68	0.1075	0.0775	0.44	0.667658	0.770882	0.321292	1	0.99611	0.788863	
Me1	P08011	-0.31	-0.41	-0.36	-0.73	-0.28	-0.46	-0.89	-0.66	-0.31	-0.28	-0.58	-0.37	0.91	-0.34	-0.52	-0.62	-0.075	0.1125	-0.175	0.097631	0.528377	0.447796	1	0.99611	0.884817	
Me2	O99K61	0.29	0.33	-0.06	0.32	-0.26	-0.13	-0.03	-0.24	0.31	0.22	-0.15	0.25	0.16	0.09	-0.46	-0.05	-0.385	-0.0625	-0.285	0.042152	0.747935	0.215233	1	0.99611	0.787313	
Me3	Q8BMF3	0.96	0.89	1.23	0.99	0.19	0.23	0.42	0.77	0.16	0.75	0.49	0.18	0.09	0.14	0.18	-0.03	-0.615	-0.0225	-0.9225	0.009977	0.013527	0.000649	1	0.99611	0.29579	
Mea1	Q64327	1.74	1.89	-0.78	-0.06	1.23	1.31	0.14	-0.51	1.42	-1.18	-0.57	2.46	1.54	0.82	-0.63	-0.59	-0.155	-0.32	-0.4125	0.829620	0.760329	0.598803	1	0.99611	0.929843	
Mea6	V90X42	-0.25	-0.18	-0.36	-0.54	-0.65	-0.52	-0.45	-0.92	-0.48	-0.54	-0.92	-0.87	0.5	0.12	-0.12	-0.4525	-0.413784	-0.504525	0.042562	0.231583	0.076883	1	0.99675	0.798863		
Meak7	Q8K0P3	-0.64	-0.24	-0.18	-0.19	-0.03	-0.46	0.22	-0.29	0.09	-0.62	-0.16	-0.1	-0.11	0.06	0.03	-0.06	0.1725	0.115	0.2925	0.425373	0.607844	0.153441	1	0.99611	0.750673	
Meq2	Q2D26-2	1.57	0.91	0.58	0.94	0.85	1.03	0.41	0.53	0.7	0.6	0.52	0.71	0.84	1.18	1.06	0.71	-0.295	-0.3675	-0.0525	0.274752	0.150983	0.840552	1	0.99611	0.976225	
Meer	Q90C53	1.96	1.16	0.8	0.72	0.66	2.11	1.02	1.04	0.31	0.29	0.93	1.8	-0.02	0.27	0.2	0.73	0.0475	-0.3275	-0.865	0.905053	0.453824	0.205554	1	0.99611	0.633075	
Med1	Q9259	-4.51	-2.77	-2.08	-2.63	-3.8	-4.72	-2.39	-2.01	-2.49	-1.66	-2.26	-3.39	-0.4	-2.08	-1.87	-1.66	-0.445	0.539	1.475	0.74176	0.37096	0.322443	1	0.99611	0.641974	
Med2	A2AGH8	-3.31	-3.53	-1.96	-2.79	-1.97	-4.45	-4.53	-3.6	-0.71	-2.73	-4.07	-1.41	-3.54	-2.07	-2.7	-1.45	0.115	0.5625	0.027913	0.886427	0.337529	0.7	1	0.99611	0.847578	
Med3	A0A019YU	-1.26	-10.36	0.72	0.5	-3.15	-1.86	-2.09	-0.84	-1.66	0	-0.6	-2.66	-3.89	-2.76	-2.86	0.7	0.84	1.59	0.6225	0.721549	0.506497	0.8005	1	0.99611	0.970568	
Med4	A2ABV5	-1.21	-1.36	-2.52	0.31	-0.88	-0.65	0.14	-1.05	-1.17	1.1	0	-0.77	-1.28	-1.1	-0.29	-1.44	0.585	0.985	0.1675	0.329711	0.182	0.774129	1	0.99611	0.960602	
Med5	A0A338P7	0.32	0.03	1.03	0.98	0.85	-0.24	0.41	0.5	1.05	4.75	0.61	-0.15	0.99	1.52	0.8	0.39	-0.21	0.975	0.335	0.525635	0.345108	0.339333	1	0.99611	0.847777	
Med6	E90984	-0.27	0.19	1.23	-0.83	1.15	0.35	0.5	-0.48	-1.29	-1	-1.1	-0.2	-0.69	0.51	-0.81	0.4175	-0.6975	-0.153	0.513099	0.203467	0.288824	0.7	1	0.99611	0.824705	
Med7	Q9YCD5	-2.38	-1.96	-1.82	-2.21	-1.48	-3.22	-2.69	-2.74	-1.45	-0.11	-1.6	-3.37	-2.15	-1.44	-2.02	-1.43	-0.44	0.46	0.3325	0.256985	0.467202	0.21814	1	0.99611	0.787447	
Med8	Q8C150	-3.43	-3.03	-4.2	-3.62	-2.57	-4.87	-3.18	-2.55	-4.54	-2.82	-3.71	-2.49	-0.54	-3.59	-3.31	-3.5	-0.2775	0.18	-0.29	0.614981	0.712461	0.516834	1	0.99611	0.905676	
Med24	A2AL4A	-1.97	-1.27	-1.13	-0.7	-1.59	-1.55	-1.72	-2	-0.16	0.38	-1.28	-1.69	0	-0.25	-1.34	-0.81	-0.4475	0.58	0.6675	0.142461	0.272941	0.11204	1	0.99611	0.713445	
Med23	FW8W8	-1.38	-0.47	-0.57	-1.61	-0.74	-1.83	-1.52	-1.21	-2.17	-0.11	-1.34	-0.84	-2.12	-1.95	-0.61	-0.44	-0.2025	-0.0825	-0.2475	0.408277	0.863141	0.617766	1	0.99611	0.935047	
Med24	AP6W47	-2.82	-1.85	-0.79	-1.5	-1.8	-2.61	-0.29	-1.32	-1.72	-0.73	-0.92	-2.67	-0.22	-0.93	-1.19	-0.5	0.235	-0.27	0.8825	0.690012	0.629375	0.073165	1	0.99611	0.668161	
Med28	O90203	-4.57	-4.17	-2.57	-3.09	-3.13	-3.86	-3.72	-3.17	-4.3	-0.28	-2.66	-3.44	-3.56	-2.34	-3.1	-3.56	0.13	0.93	0.44	0.779936	0.308755	0.377071	1	0.99611	0.860984	
Med29	Q90981	0.59	1.6	-0.36	0.31	0.26	-0.93	0	0.32	0.45	-0.32	1.03	0.44	0.74	0.34	0.23	0.08	-0.6225	-0.0205	-0.1875	0.202687	0.951982	0.65161	1	0.99675	0.947633	
Med30	Q90C9	-0.42	-3.71	-1.81	-1.5	-3.63	-1.52	-0.05	0.37	-0.4	-1.87	-0.89	2.85	-0.68	-2.16	1.13	1.3325	2.085	0.859319	0.227014	0.125824	0.8	1	0.99611	0.721505		
Med31	Q92CA5-2	-3.25	-3.22	-1.48	-1.87	-3.08	-1.88	-1.94	-1.94	-1.71	-2.91	-2.23	-2.07	-1.61	0.06	-0.48	0.7125	0.91711	0.497246	0.7259	0.6	1	1	0.99611	0.764376		
Med6	Q92D14	-5.84	-5.4	-4.5	-7.06	-2.83	-6.98	-4.7	-6.36	-5.37	-3.77	-5.88	-5.27	-3.97	-4	-5.13	-4.1	0.4825	0.6275	1.4	0.618644	0.340014	0.903587	1	0.99611	0.614181	
Med8	A2ARC6	-2.03	-2.27	-3.5	-2.79	-4.33	-0.8	-5.91	-3.04	1.92	0.2	-2.23	-2.02	0.46	-2.96	-2.32	-3.29	-0.8725	-2.115	1.52	0.39	0.47132	0.346799	1	0.99611	0.851134	
Med9	Q9YVC6	-0.42	-0.2	-0.78	-1.15	-1.18	-1.03	-0.71	-1.12	-1.55	-2.38	-1.01	-0.67	-1.37	-1.48	-1.31	-1.53	-0.1225	-0.765	-0.78	0.680603	0.807978	0.011119	1	0.99611	0.563386	
Med12	Q8CYN5	-2.31	-2.46	-1.96	-2.79	-1.97	-4.45	-4.53	-3.6	-0.71	-2.73	-4.07	-1.41	-3.54	-2.07	-2.7	-1.45	0.115	0.5625	0.027913	0.886427	0.337529	0.7	1	0.99611	0.847578	
Med2d	E9K0T0	-6.84	-7.32	-6.1	-6.05	-6.59	-7.63	-7.06	-7.15	-4.64	-3.33	-5.83	-5.93	-2.44	-4.87	-5.72	-7.38	-0.53	1.645	1.475	0.16406	0.02583	0.515145	1	0.99611	0.745034	
Med10	A0A140T8	-1.65	-1.53	-0.99	-1.07	-2.03	-2.2	-0.34	-1.26	-0.36	0.39	0.18	-0.96	-0.22	-1.64	-0.59	-0.18	-0.1475	1.1225	0.6525	0.73015	0.008083	0.10545	1	0.99611	0.703417	
Meq6	B18AH4	-2.09	-1.48	-3.03	-2.07	-2.06	-1.76	-1.18	-4.2	0.01	-2.3	-1.57	-1.17	-0.11	-0.94	-1.23	-2.95	-0.1325	0.91	0.86	0.842134	0.177085	0.188751	1	0.99611	0.778843	
Meq15	P60B82	-0.17	-0.21	-0.49	-0.63	0.06	-0.33	-0.6	-0.53	-1.3	1.1	0.03	0.4	0.38	-0.2	0.28	-0.05	0.15	0.5825	0.81815	0.716407	0.00915	0.7	1	0.99611	0.563386	
Meq16	Q8BH27	-0.05	0.4	0.39	0.14	0.69	0.13	0.37	0.34	0.08	-0.32	0.46	1.02	0.46	-0.94	0.79	0.8	0.1625	0.09	0.0575	0.412947	0.110033	0.887548	1	0.99611	0.908661	
Meis2	Q37Y42	-1.16	-0.82	-2.07	-1.72	-0.63	-0.86	-1.7	-2.21	-1.09	-0.81	-2.02	-0.82	-0.96	-1.4	-2.15	-1.81	0.0925	0.2575	-0.1375	0.830384	0.508831	0.712466	1	0.99611	0.958014	
Memio1	Q91YH6	-0.12	0.04	-0.31	-0.04	0.48	-0.36	0.01	-0.08	-0.54	-0.62	-0.29	-0.01	-1.19	-0.08	-0.44	-0.5	1.12	-0.2575	-0.445	0.581	0.227607	0.124816	1	0.99611	0.721448	
Men1	FW8W09	0.17	-0.12	-0.47	0.7	-0.19	-0.03	-0.37	-0.69	-0.55	-0.89	-0.57	-0.53	0.17	-0.27	-0.07	-0.26	0.04	-0.335	0.1725	0.872968	0.161948	0.497707	1	0.99611	0.890105	
Meq2	Q8C349	-2.72	-4.08	-2.72	-3.35	-3.78	-2.42	-2.08	-2.42	-2.08	-2.42	-2.08	-2.42	-2.08	-2.42	-2.08	-2.42	-0.15	0.4075	0.738972	0.430763	0.21248	0.316	1	0.99611	0.849421	
Meq6	Q80805	1.04	1.05	0.7	0.56	1.48	1.13	0.3	0.01	0.52	0.26	0.72	1	0.42	0.05	0.16	0.42	-0.1075	-0.225	-0.6	0.760298	0.369942	0.216688	1	0.99611	0.612926	
Med	Q9REU0	-0.3	0.03	-0.93	-1.2	0.49	-0.29	-0.2	-0.97	-1.61	-0.75	-1.04	-0.25	-0.23	-0.78	-0.67	-0.06	0.3575	-0.3125	0.5	0.370008	0.424644	0.229097	1	0.99611	0.787447	
Meq1	FW8W10	1.76	0.99	-0.89	-1.24	1.91	2.26	0.47	-0.05	2.6	-1.96	0.02	2.98	3	-0.43	-2.06	0.32	0.8425	0.0075	0.0525	0.358295	0.604864	0.963284	1	0.99611	0.93927	
Metap1	Q8B948	-1.48	-1.19	-0.47	-1.58	-1.11	-0.47	0.12	-0.78	-1.08	-0.13	-0.37	-1.18	-0.87	-1.02	0.11	-0.0025	-0.25	0.1575	0.398783	0.626467	0.405121	0.91212	1	0.99611	0.759217	
Metap1d	Q9CPW9-2	-0.48	-0.5	-0.38	-0.57	-0.6	-0.74	-0.4	0.06	0.89	1.53	0.16	-0.2	0.16	2.24	-0.05	-0.74	0.2725	1.0775	0.885	0.349	0.10762	0.159363	1	0.99611	0.75451	

Morf4d2	Q9R0Q4	-1.01	-2.26	-1.29	-1.85	-1.48	-1.73	-2.53	-2.12	-1.95	-2.23	-1.63	-0.86	-2.05	-1.04	-1.42	-0.3625	-0.0875	0.26	0.314075	0.817543	0.494572	1	0.956511	0.89758		
Morf4d	Q8PFG2	-0.48	-0.65	-0.63	-0.79	-0.25	-0.44	-1.22	-1.09	-0.62	0.14	-0.52	-0.39	-0.77	-0.25	-1.09	-0.39	-0.1175	0.29	-0.115	0.647006	0.207562	0.624466	1	0.956511	0.939167	
Mosp4d1	Q8VEU0	-0.49	0.16	0.68	0.06	0.25	0.81	0.14	0.02	0.39	1.73	0.75	0.37	0.93	0.42	0.91	0.37	0.1925	0.3325	0.235	0.521816	0.527412	0.908128	1	0.956511	0.902804	
Mosp4d	B1AU74	0.26	-0.17	1.76	0.65	0.24	-0.21	0.56	0.57	0.32	0.88	-0.66	-0.11	0.78	0.07	2.51	1.52	-0.335	-0.1875	0.595	0.437899	0.671555	0.342611	1	0.956511	0.848473	
Moxd10	D323E8	1.68	0.73	0.44	-0.15	0.57	1.34	0.09	-1.08	0.66	-0.67	0.83	2.07	1.31	-0.65	0	0.47	-0.445	0.0475	-0.3925	0.450708	0.938918	0.45912	1	0.956511	0.887902	
Moxd1	Q92X61	0.76	0.67	-0.5	-0.51	0.2	1.45	-0.43	-0.2	0.4	0.96	-0.55	1.33	-0.03	0.45	0.09	-0.55	0.15	0.43	-0.115	0.766796	0.402093	0.77138	1	0.956511	0.965933	
Mpi1	D37WV6	0.88	0.67	0.52	0.53	0.59	0.83	0.12	0.6	0.26	0.3	0.85	0.53	0.82	-0.12	0	0.21	0.85	-0.2425	-0.6975	0.221242	0.120808	0.07076	1	0.956511	0.552614	
Mpi2d	Q90023	-0.92	-0.85	-0.55	-0.5	-0.56	-0.43	0.05	-0.22	-1.92	-3.18	0.16	-0.93	-2.19	-1.32	-1.58	-0.96	0.415	-0.7625	-0.8075	0.06601	0.264027	0.021567	1	0.956511	0.621926	
Mpi2d1	Q8R0U2	-0.38	-0.57	0.08	-0.38	-0.5	-1.28	-0.7	-1.15	-0.53	-0.03	-0.38	-1.65	-0.07	-0.07	-0.53	0.33	-0.595	-0.335	0.2275	0.035638	0.37157	0.383342	1	0.956511	0.860984	
Mpd2	D31XU2	0.89	0.71	0.23	0.3	0.17	0.35	0.11	-0.37	0.96	-0.26	0.42	1.18	0.25	0.54	0.65	-0.4875	0.0075	0.1225	0.070331	0.982175	0.656691	1	0.956511	0.948657		
Mphosph4d	Q9D1U1	3.56	0.47	0.126	0.55	1.1	1.63	1.37	1.33	1.37	0.15	4.23	1.56	0.54	0.75	0.125	0.2625	0.377502	0.673873	0.819124	0.527512	0.939768	1	0.956511	0.972768		
Mphosph4d	Q31YV6	1.03	1.9	1.04	0.83	1.87	1.17	1.29	1.26	1.02	2.10	1.7	1.47	2.07	2.56	1.04	0.43	0.1975	0.313	-0.147	0.480811	0.375073	0.758834	1	0.956511	0.983616	
Mpi	Q924M7	-0.98	-1.27	-0.79	-0.43	-1.12	-0.69	-0.27	-0.38	-1.14	-0.28	-0.67	-0.83	-1.28	-0.99	-0.44	-0.62	0.2525	0.1375	-0.09	0.355842	0.609918	0.723695	1	0.956511	0.958398	
Mpi1	P70290	0.35	-0.24	0.21	0.53	-0.32	0.25	0.65	0.64	0.5	-0.51	0.3	-0.32	-0.23	0.11	0.24	0.0925	-0.22	-0.125	0.74464	0.468662	0.601964	1	0.956511	0.930802		
Mpi2d	Q9VWV4	2.09	0.83	1.45	1.13	1.18	1.17	1.11	1.14	1.2	0.84	1.42	1.7	0.87	0.52	1.07	0.9	0.025	-0.135	-0.535	0.344144	0.696783	0.130678	1	0.956511	0.703417	
Mpi1	Q8E4D0	1.42	1.95	0.86	0.52	1.37	1.64	0.64	0.4	0.75	0.22	0.56	1.29	0.87	0.72	0.7	0.79	-0.0725	-0.335	-0.265	0.824347	0.297111	0.303136	1	0.956511	0.831227	
Mpi2d	G5E858	1.02	1.07	0.2	0.43	1	1.11	1.17	1.76	0.99	-0.71	0.37	1.5	0.42	1.99	0.28	0.67	0.33	-0.1425	0.16	0.205089	0.77027	0.708453	1	0.956511	0.957562	
Mppe2d1	E9P9E1	-1.8	-2.08	-1.36	-1.13	-0.68	-1.63	-1.28	-1.19	-0.41	-0.56	-1.36	-0.8	-0.29	1.04	0.17	-0.48	0.3975	0.81	1.7025	0.194833	0.024519	0.018122	1	0.956511	0.419079	
Mppe2d	Q9CZJ0	-0.3	-0.85	0.15	-0.27	-0.27	-0.62	-0.57	-0.06	-1.76	-0.94	-0.09	-0.36	-1.53	-1.35	-0.12	0.19	0.2225	-0.47	-0.385	0.488868	0.263602	0.404173	1	0.956511	0.871454	
Mpi1	Q53WZ5	1.05	0.86	1.29	0.89	0.86	0.88	0.87	0.87	0.68	1.07	1.33	1.14	0.73	0.94	0.99	0.93	-0.1325	0.0325	-0.125	0.354895	0.877456	0.517239	1	0.956511	0.905864	
Mpi2d	P97344	1.07	0.96	0.09	-0.2	0.85	1.1	-0.14	0.16	0.96	0.07	0.1	0.69	0.54	1.37	-0.84	-0.32	0.0125	-0.0025	-0.2925	0.975253	0.94643	0.588514	1	0.956511	0.929131	
Mpi2d	Q9J959	1.49	1.28	0.89	0.56	1	1.48	1.1	-0.14	0.16	0.44	0.12	0.9	1.26	0.07	0.92	0.43	0.55	0.0325	-0.375	-0.5625	0.901626	0.266355	0.077748	1	0.956511	0.676942
Mpi2d	D31WV4	0.41	0.83	1.27	0.15	0.87	0.73	0.43	0.15	0.28	0.62	0.66	0.42	0.47	-0.38	-0.02	1.31	-0.12	-0.17	-0.32	0.683294	0.540913	0.4547	1	0.956511	0.887169	
Mpi2d	D32M43	-0.36	-0.59	-0.03	-1.14	-1.26	-0.44	-0.61	-0.62	-0.94	-0.76	0.75	-0.4	-0.03	0.08	0.65	-0.88	0.57	0.1325	0.125	0.055	0.805741	0.763622	0.906129	1	0.956511	0.986321
Mpi2d	Q8VXK2	-0.23	-0.01	-1.67	-1.81	0.52	-0.06	-0.24	-1.21	-0.17	-0.66	-0.88	-0.37	0.28	0.9	-1.7	-1.20	0.6825	0.41	0.4775	0.23033	0.388765	0.506435	1	0.956511	0.910002	
Mpi1	A0A0A6YV4	0.51	0.13	0.98	0.61	0.57	0.74	-1.05	-0.07	1.37	2.5	0.59	1.03	1.04	1.19	1.42	1.09	-0.51	0.815	0.6275	0.239185	0.80845	0.024325	1	0.956511	0.626254	
Mras	Q90899	0.53	0.81	1.18	1.04	1.14	0.53	1.19	0.94	0.19	0.68	1.05	0.39	-0.07	0.87	0.54	0.9	0.06	-0.3125	-0.33	0.791988	0.242125	0.263371	1	0.956511	0.817264	
Mrc1	B01830	-0.69	-1.54	-0.82	-0.82	-0.96	-1.04	-1.15	-1.02	-1.56	-1.1	-1.15	-1.28	-1.21	-1.22	-1.12	-0.53	0.15	-0.005	-0.0525	0.181777	0.809951	0.292664	1	0.956511	0.975225	
Mrc2	A24A49	-1.8	-1.49	0.19	0.14	-1.81	-1.78	-0.2	1.24	-1.96	0.33	1.31	-2.19	-1.32	-1.27	2.04	1.32	-0.1	-0.1425	0.751442	0.926286	0.988239	0.983629	1	0.956511	0.983629	
Mrc1	Q61216-2	-5.99	-6	-2.78	-3.6	-5.91	-7.15	-3.08	-3.23	-3.89	-2.93	-3.08	-5.43	-1.17	-6.4	-3.44	-3.24	-0.76	0.505	0.803534	0.411328	0.880216	1	0.956511	0.938007		
Mrc1	Q9CQT1	0.32	-0.03	0.59	-0.15	-0.24	0.09	0.85	0.3	0.12	0.17	0.63	0.02	-0.01	0.02	0.56	0.54	0.0675	0.0525	0.095	0.813283	0.486338	0.715413	1	0.956511	0.958106	
Mrc1	Q9J925	0.49	0.2	0.47	0.9	0.15	0.47	0.1	0.58	0.69	0.44	0.45	0.27	0.86	0.93	-0.24	0	-0.19	-0.0525	-0.1275	0.338821	0.803476	0.702863	1	0.956511	0.956589	
Mrc1	Q5ND52	0.4	0.9	0.55	0.52	1.37	1.69	0.64	0.4	0.75	0.22	0.56	1.29	0.87	0.72	0.7	0.79	-0.0725	-0.335	-0.265	0.821242	0.297111	0.303136	1	0.956511	0.831227	
Mrc1	E0C222	0.25	0.73	0.39	-0.06	0.51	0.38	0.4	0.18	0.2	0.14	0.4	0.39	0.24	0.99	-0.08	0.35	0.29	-0.045	0.0475	0.394556	0.835108	0.871313	1	0.956511	0.975293	
Mrc1	Q9J9N96	0.62	0.66	-0.1	0.05	0.55	0.93	0.23	0.17	0.77	-0.39	-0.12	0.34	0.65	1.4	-0.25	-0.36	0.1625	-0.0575	0.0525	0.5483	0.62634	0.903792	1	0.956511	0.958278	
Mrc1	Q31BW2	0.42	0.46	0.39	0.62	0.34	0.51	0.57	0.64	0.95	0.32	0.7	0.42	0.81	1.12	0.16	0.27	0.0425	0.1325	0.1175	0.781557	0.483737	0.654227	1	0.956511	0.947657	
Mrc1	Q9CQD0	0.68	0.83	1.29	0.89	0.86	0.88	0.87	0.87	0.62	1.01	0.93	0.67	1.71	0.94	1.19	0.93	-0.1375	-0.1	0.14	0.410346	0.473762	0.517	1	0.956511	0.947657	
Mrc1	D9D1815	0.51	0.82	0.69	1.13	0.74	0.66	1.01	1.09	0.01	0.46	1.02	0.88	-0.06	0.43	0.69	0.57	0.0895	-0.195	-0.38	0.663139	0.486338	0.148397	1	0.956511	0.746406	
Mrc1	Q9D1P0	0.62	0.51	0.82	0.4	0.64	0.57	1.15	1.02	0.5	0.47	1.14	0.46	0.17	0.76	0.88	0.96	0.2575	0.055	0.105	0.220873	0.806128	0.66248	1	0.956511	0.949645	
Mrc1	Q9D1P6	0.38	0.67	0.46	-0.16	0.57	0.52	0.55	0.37	0.58	0.26	0.37	0.16	0.05	0.23	0.47	0.31	0.165	0.005	-0.0725	0.441107	0.982665	0.760542	1	0.956511	0.963123	
Mrc1	Q9CPK5	0.57	0.21	0.44	0.73	0.13	0.48	0.62	0.57	0.82	0.82	0.52	0.51	0.52	0.85	0.23	-0.27	-0.0375	0.18	-0.02	0.845833	0.368761	0.529664	1	0.956511	0.989887	
Mrc1	Q9N981	-0.56	-0.27	0.43	0.35	0.14	0.64	0.57	0.81	0.17	0.59	0.17	0.4	0.15	0.17	0.18	0.18	0.075	0.468691	0.089	0.17	0.64055	0.75504	1	0.956511	0.958135	
Mrc1	Q9P170	0.7	0.52	0.72	0.6	0.3	0.44	0.48	0.96	0.3	0.82	0.7	0.45	0.44	0.3	0.49	0.24	-0.09	-0.1675	-0.2675	0.637337	0.867848	0.152244	1	0.956511	0.750422	
Mrc1	Q9L505	-0.59	-0.34	-0.34	0.3	-0.27	-0.26	-0.07	0.02	-0.25	0.14	0.11	-0.81	0.12	0.26	-0.32	-1.03	0.0975	0.4	0.06	0.666019	0.893196	0.8571	1	0.956511	0.976225	
Mrc1	Q9J9338	-0.23	-0.16	-0.32	-0.12	0.2	-0.38	0.08	-0.3	0.03	-0.57	-0.27	-0.52	-0.51	0.55	-0.84	-0.69	0.0075	-0.125	-0.165	0.96392	0.529377	0.612317	1	0.956511	0.935166	
Mrc1	Q9J973	-0.45	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	0.35	0.512385	0.548129	0.980027	1	0.956511	0.935166	
Mrc1	Q9CQJ4	0.32	0.47	0.31	0.7	0.08	0.53	0.62	0.73	0.1	-0.84	0.65	0.4	-0.02	-0.77	0.07	0.24	0.04									

Mtm1	Q9Z2C5	0.4	0.11	0.23	0.05	0	0.59	0.31	0.07	0.55	0.22	0.49	0.32	0.63	0.03	0.27	0.63	0.045	0.1975	0.1925	0.814625	0.283042	0.388567	1	0.995511	0.86481
Mtmr1	F6TH99	-1.19	-0.28	0.57	0.01	0.28	0.36	-0.33	0.02	0.22	1.06	1.22	-1.43	-0.93	2.37	-0.03	1.45	0.305	0.49	0.9375	0.429961	0.458054	0.29737	1	0.995511	0.787447
Mtmr1	Q9Z2C4	0.4	0.31	0.63	0.69	0.1	0.51	0.51	0.78	0.9	0.16	0.59	0.39	0.08	0.1	0.29	0.15	0.235	-1.26	-1.6	-0.105	0.866879	0.1	0.995511	0.952729	
Mtmr1	Q7TPM9	-0.53	0.17	0.27	0.22	0.07	-0.35	0.32	0.31	-0.08	0.33	0.38	0.28	-0.44	0.09	-0.12	0.55	0.055	0.195	-0.025	0.829672	0.426905	0.966194	1	0.995511	0.95927
Mtmr1	Q8QT46	-0.33	-0.45	0.27	-0.14	-0.7	-0.52	0.07	0.31	-0.13	-0.19	-0.02	-0.33	0.02	-0.96	-0.3	-0.07	-0.0475	-0.005	-0.165	0.886826	0.981175	0.571394	1	0.995511	0.924332
Mtmr1	Q8V1E2	-1.59	-0.86	-1.31	-1.7	-0.97	-0.91	-1.16	-1.71	-0.77	-2.44	-1.01	-1.55	0.03	-1.03	-1.73	-1.77	0.1775	-0.075	0.24	0.512766	0.845316	0.58626	1	0.995511	0.928178
Mtmr2	Q9Z201	-0.57	-0.34	0.26	0.33	0.69	0.51	0.48	0.15	0.17	-1.19	0.19	0.17	-1.19	0.19	0.07	-0.06	-0.1475	-0.225	0.734427	0.399414	0.302045	1	0.995511	0.836881	
Mtmr3	BIAT05	0.26	0.01	0.38	0.05	0.04	0.35	0.24	0.34	0.48	0.04	0.34	0.55	-0.06	0.58	0.69	0.0675	0.14	0.265	0.689023	0.464791	0.773952	1	0.995511	0.822084	
Mtmr6	Q8VE11	0.4	-0.12	0.03	-0.05	-0.05	0.11	0.46	-0.02	-0.15	-0.43	0.19	0.29	-0.29	-0.36	0.06	-0.13	0.06	-0.245	0.762795	0.699524	0.758671	1	0.995511	0.812074	
Mtmr7	Q9ZC29	-0.37	-0.34	-0.24	-0.28	-0.17	-0.31	0.24	-0.09	-0.47	-0.72	-0.12	-0.2	-0.8	0	-0.4	-0.18	0.31	-0.07	-0.0375	0.107281	0.718728	0.866715	1	0.995511	0.978305
Mtmr9	Q9Z2D0	-0.47	-0.43	-0.31	-0.1	-0.13	-0.1	-0.13	-0.46	-0.16	-0.35	-0.49	-0.49	-0.1	-0.1	-0.1	-0.15	0.235	-0.145	-0.0325	0.334745	0.551546	0.862113	1	0.995511	0.977204
Mtmr1	P03888	-1.27	-0.67	-1.25	-1.47	-0.37	-0.97	-0.95	-1.49	-1.24	-1.41	-1.13	-1.17	-1.57	-0.58	-2.43	0.149	0.145	-0.1075	-0.3775	0.644795	0.430983	0.153467	1	0.995511	0.855029
mt-No2	P03899	-2.07	-1.46	-2.38	-1.4	-1.49	-1.61	-0.95	-1.49	-0.17	-1.61	-1.03	-2.18	1.02	-1.15	-0.28	-1.78	0.4425	0.665	1.28	0.144271	0.219321	0.507093	1	0.995511	0.661738
mt-No3	P03899	-0.09	0.04	-1.42	-1.31	-0.35	-0.23	-1.08	-1.51	-0.63	-0.52	-1.43	-0.6	0.02	0.08	-1.71	-1.95	-0.0975	-0.1	-0.195	0.831619	0.812082	0.750656	1	0.995511	0.961479
Mtdn4	P03911	-1	-0.6	0.05	-0.71	-1.31	-0.73	-1.12	-0.88	-0.26	-1.12	-0.64	-1.21	-0.55	-1.54	-1.42	0.27	-0.495	-0.2425	-0.145	0.085411	0.448209	0.589735	1	0.995511	0.925142
Mtdn4	P03903	-2.54	-0.18	-4.38	-1.69	-1.76	-1.2	-2.52	-2.88	-0.06	-0.99	-0.49	-1.02	-0.57	-0.46	-1.73	-1.42	0.5525	-1.3175	-2.3475	0.444031	0.224414	0.083532	1	0.995511	0.689531
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94	-0.67	-0.37	-2.95	-2.27	0.115	-0.1975	0.83672	0.91251	0.780751	1	0.995511	0.967744	
Mtdn5	P03921	-0.73	-0.4	-2.34	-2	-0.09	-0.51	-1.94	-2.47	-0.7	-2.12	-1.95	-0.94													

Ncdn	Q920E-2	-1.07	0.46	-1.32	-0.4	-1.1	0.28	-2.42	-1.94	2.37	1.53	-0.84	0.88	1.79	0.23	-0.29	-1.52	-0.7125	1.5675	0.535	0.288737	0.053293	0.497557	1	0.995511	0.898105	
Ncdn	Q920E0	-1.09	-1.12	-1.08	-1.16	0.9	-1.07	-0.61	-0.93	-0.97	-1.02	-0.94	-1.07	-1.21	-0.98	-1.14	-1.13	0.235	0.1125	-0.0025	0.18088	0.474735	0.988145	1	0.995511	0.996154	
Ncdn	Q8R1U1	-0.14	0.27	0.35	0.76	0.73	0.13	0.1	0.48	-0.28	-1.77	0.61	0.01	0.07	0.13	0.13	0.02	0.365	-0.4225	0.2225	0.272448	0.329313	0.91012	1	0.995511	0.863575	
Ncdn	Nd1	Q909A4	-0.88	-3.15	-1.7	-1.19	-2.63	-1.68	-1.17	-1.43	-1.48	-0.79	-1.12	-2.12	-0.67	-1.43	-1.98	-1.96	0.0025	0.3525	0.22	0.993691	0.546666	0.687393	1	0.995511	0.955729
Ncdn	Nd1	Q701A5	-0.11	-1.5	-0.72	-0.68	-2.1	1.11	-1.15	-0.9	2.42	-1.64	-0.84	-1.23	-0.34	-0.71	-2.34	-1.1	-0.0075	0.4	0.575	0.990991	0.625747	0.618716	1	0.995511	0.937856
Ncdn	Nd1	Q9PM51	0.09	-0.03	0.07	0.35	0.2	-0.12	-0.18	0.11	-0.53	0.03	0.21	0.13	-1.12	-0.12	0.13	-0.33	-0.0275	-0.16	-0.545	0.868312	0.478117	0.072606	1	0.995511	0.688066
Ncdn	Nd1	Q503U3	1.1	0.81	0.94	0.79	1.11	-0.59	0.82	0.7	0.48	0.83	0.89	0.9	0.2	1.08	0.71	0.56	0.005	-0.135	-0.3725	0.973386	0.471364	0.25906	1	0.995511	0.781447
Ncdn	Ncdn	A2AS98	0.59	0.38	0.88	0.78	0.763	0.63	0.6	0.71	0.1	0.61	0.82	0.52	-0.18	0.36	0.44	0.59	-0.015	-0.145	-0.355	0.928673	0.520522	0.163987	1	0.995511	0.758352
Ncdn	Ncdn	Q8K1X4	-1.82	-1.63	-1.89	-1.26	-1.75	-1.51	-1.96	-1.46	-1.26	-0.71	-1.29	-1.96	-0.63	-1.05	-1.76	-2.02	-0.02	0.345	0.285	0.924169	0.266497	0.421337	1	0.995511	0.857728
Ncdn	Ncdn	Q6G2Q2	0.27	1.15	-1.39	-1.7	1.3	0.42	-1.31	-1.71	0.78	-0.11	-0.82	0.54	1.06	1.94	-1.04	-2.35	0.0925	-0.485	0.32	0.916744	0.681641	0.760328	1	0.995511	0.964134
Ncdn	Ncdn	Q95E14	-0.36	0.16	0.36	0.36	0.13	0.07	0.13	0.28	0.45	-0.02	0.13	0.28	0.45	-0.02	0.13	0.28	0.45	-0.02	0.13	0.28	0.45	-0.02	0.13	0.28	0.45
Ncdn	Ncdn	P03A05	-1.83	-2.87	-2.16	-1.26	-2.48	-2.77	-2.05	-2.45	-2.4	-1.52	-1.95	-2.4	-2.02	-2.35	-2.06	-2.27	-1.825	-0.155	0.08	0.505154	0.624915	0.760234	1	0.995511	0.961123
Ncdn	Ncdn	Q8VC48	-0.61	-0.37	-1.21	-1.17	-0.22	-0.22	-0.02	-0.86	-0.91	-0.85	-1.22	-0.17	-0.29	0.13	0.07	0.16	0.62	0.025	0.8575	0.0703	0.864396	0.009102	1	0.995511	0.563386
Ncdn	Ncdn	P70365-4	-2.11	-1.53	-0.89	-1.22	-1.17	-1.49	-1.02	-1.21	-1.44	-0.82	-0.86	-1.52	-1.25	-0.96	-1.34	-1.38	0.215	0.6875	0.205	0.450971	0.236519	0.489073	1	0.995511	0.897531
Ncdn	Ncdn	Q81026	-5.21	-7.36	-3.42	-5.24	-5.02	-3.31	-5.82	-7.09	-3.54	-1.74	-3.77	-5.07	-1.52	-5.45	-4.57	-4.93	-0.0025	1.7775	0.19	0.998029	0.089412	0.262782	1	0.995511	0.822595
Ncdn	Ncdn	B7CZ44	2.57	3.83	2.66	2.2	-1.64	-2.56	0.58	1.28	0.16	0.34	0.5	0.08	0.65	-0.16	1.23	0.33	-0.33	-0.6075	-0.365	0.605957	0.178527	0.465876	1	0.995511	0.641974
Ncdn	Ncdn	N51W39	2.07	0.05	0.77	0.72	-0.85	1.52	0.24	1.28	0.16	0.34	0.5	0.08	0.65	-0.16	1.23	0.33	-0.33	-0.6075	-0.365	0.605957	0.178527	0.465876	1	0.995511	0.888469
Ncdn	Ncdn	A0A1L1555	0.11	0.64	0.71	0.71	0.52	0.33	0.4	0.76	0.28	1.01	0.74	0.5	0.09	0.71	0.59	0.55	-0.04	0.09	-0.0575	0.8446	0.70968	0.809667	1	0.995511	0.972113
Ncdn	Ncdn	Q5RM16	-1.96	-2.24	-1.8	-1.95	-2.79	-2.22	-2.75	-2.16	-1.12	-1.34	-1.97	-1.79	0.14	-1.54	-2.09	-2.23	-0.4925	0.4325	0.5725	0.046271	0.102758	0.277633	1	0.995511	0.822084
Ncdn	Ncdn	F8VQJ0	-2.24	-2.49	-1.57	-1.16	-2.88	-2.17	-1.69	-1.83	-1.62	-1.32	-1.39	-2.22	0.01	-2.27	-1.7	-1.68	-0.1025	0.3625	0.19	0.571482	0.251776	0.258796	1	0.995511	0.812104
Ncdn	Ncdn	N8B9Y6	-0.74	-0.11	0.76	0.16	0.57	-0.53	1.23	0.01	-1.06	-1.77	0.63	0.71	-0.86	0.29	0.36	1.3	0.3025	-0.745	0.255	0.515118	0.196242	0.651542	1	0.995511	0.936534
Ncdn	Ncdn	P57716	-1.09	-0.64	-0.25	-0.32	-0.3	-0.95	-0.3	-0.68	-0.58	-1.32	-0.48	-1.01	-0.46	-0.83	-0.77	-0.3	0.0175	-0.2725	-0.015	0.945885	0.350681	0.953743	1	0.995511	0.992476
Ncdn	Ncdn	Q8VC81	0.44	0.5	0.36	0.11	0.44	0.43	0.17	0.51	0.76	-0.79	0.12	0.46	1.41	-0.45	1.26	0.7	0.035	-0.215	0.3775	0.835189	0.533554	0.372182	1	0.995511	0.859424
Ncdn	Ncdn	Q9ZJAE-3	-0.08	0.7	1.02	1	0.89	-0.19	0.38	0.64	0.39	1.54	0.08	0.19	0.21	1.4	0.8	0.61	-0.23	0.09	0.095	0.486967	0.813254	0.798509	1	0.995511	0.968677
Ncdn	Ncdn	Q9ER81	0.7	0.83	0.62	0.66	0.79	0.6	0.45	0.13	0.73	0.74	0.44	0.59	0.85	1.16	0.49	0.08	-0.11	0.0025	-0.1075	0.533943	0.989044	0.685844	1	0.995511	0.955729
Ncdn	Ncdn	A0A948A4	-1.3	-1.4	-0.38	-0.52	-1.55	-1.32	-0.31	-0.86	-2.25	-0.77	-0.8	-0.73	-1.22	-1.52	-0.9	-1	-0.11	-0.2375	-0.485	0.761973	0.583873	0.321681	1	0.995511	0.787447
Ncdn	Ncdn	F6RT43	-0.05	0.68	0.49	0.44	0.16	0.46	0.17	0.38	1.94	0.42	0.77	-0.11	2.72	0.36	0.24	0.4	-0.0975	0.365	0.54	0.634576	0.412049	0.354769	1	0.995511	0.855093
Ncdn	Ncdn	P25233	-0.45	0.03	-0.83	-1.6	-0.05	-0.84	-0.41	-0.74	0.93	-1.22	0.02	-0.39	1.4	-1.12	-0.17	0.43	0.2525	-0.7	0.1475	0.489954	0.266304	0.77183	1	0.995511	0.965933
Ncdn	Ncdn	A2A05	-0.52	0.67	0.67	0.36	0.2	-0.72	0.33	0.02	-0.17	-0.12	0.09	0.51	-0.99	0.01	-0.09	-0.09	-0.09	-0.18	0.46396	0.100505	0.880638	0.955729	1	0.995511	0.955729
Ncdn	Ncdn	Q62433	1.16	0.53	0.47	0.28	0.2	0.79	0.46	0.04	-0.02	-0.57	0.5	1	-0.15	-0.34	0.32	0.38	-0.2575	-0.3825	-0.5575	0.349159	0.326633	0.073245	1	0.995511	0.668219
Ncdn	Ncdn	Q9YQ60	0.02	0.32	0.12	0.08	0.63	0	1	0.33	-0.61	-1.29	0.14	0.14	-0.85	-0.98	-0.16	-0.01	0.355	-0.54	-0.635	0.162927	0.143512	0.043055	1	0.995511	0.568545
Ncdn	Ncdn	A2A31BQ4	-0.94	0.33	1.93	0.96	0.1	-0.18	1.19	1.19	-0.23	1.29	1.01	-0.33	-0.05	1.3	2.59	0.125	-0.1275	0.315	0.984349	0.848562	0.699546	1	0.995511	0.955729	
Ncdn	Ncdn	Q9YQ2-2	1.27	3.83	2.66	2.2	-1.64	-2.56	0.58	1.28	0.16	0.34	0.5	0.08	0.65	-0.16	1.23	0.33	-0.33	-0.6075	-0.365	0.605957	0.178527	0.465876	1	0.995511	0.897531
Ncdn	Ncdn	Q9YQ19	0.55	1.21	0.68	0.61	1.08	0.28	0.9	0.58	0.73	0.81	0.81	1.26	0.04	1.27	0.47	0.37	-0.0525	0.14	-0.225	0.831199	0.542245	0.476134	1	0.995511	0.892174
Ncdn	Ncdn	Q8BTG7-3	-0.42	0.11	0	-0.04	-0.14	-0.31	0.55	-0.08	-0.33	-0.36	0.25	0.37	-0.39	0.22	0.49	0.37	0.1625	0.07	0.26	0.493781	0.777446	0.326513	1	0.995511	0.843799
Ncdn	Ncdn	Q5S683	-0.39	-0.27	-0.58	0.18	-0.26	-0.29	0.39	-0.13	-0.34	-2.78	0.47	-0.44	-0.99	-0.05	-1.67	-0.94	0.1925	-0.5075	-0.6475	0.434314	0.446417	0.102323	1	0.995511	0.700625
Ncdn	Ncdn	Q9VC13	-0.89	-0.49	-0.54	0.11	-0.05	1.13	-0.55	-0.04	0.72	-0.34	0.14	0.84	0.8	0.2	0.43	0.2	-0.162	0.1235	0.162	0.379389	0.824774	0.915564	1	0.995511	0.915564
Ncdn	Ncdn	Q5E814	-0.52	-0.33	-0.92	-0.43	-0.06	0.52	-0.5	-0.98	-0.04	-0.53	-0.6	-0.35	0.15	0.25	0.21	-0.96	0.295	-0.71	0.4625	0.388326	0.446637	0.178052	1	0.995511	0.777247
Ncdn	Ncdn	Q7TM73	2.29	1.47	2.62	1.35	1.85	2.29	3.03	2.8	0.31	0.36	2.62	2.15	-0.38	0.59	2.41	2.81	0.56	-0.5725	-0.575	0.172038	0.366324	0.44381	1	0.995511	0.883549
Ncdn	Ncdn	Q9ER52	0.09	0.52	0.39	0.68	0.11	0.08	0.25	0.33	0.29	0.02	-0.07	-0.1	0.72	-0.03	0.21	-0.2275	-0.255	-0.22	0.232264	0.24788	0.398641	1	0.995511	0.867334	
Ncdn	Ncdn	Q9CJ05	0.76	0.81	0.06	0.73	0.08	0.86	0.19	0.49	-0.04	-0.51	0.47	0.6	0.34	-1.04	0.07	-0.06	-0.185	-0.46	-0.7625	0.488569	0.166361	0.052537	1	0.995511	0.659923
Ncdn	Ncdn	Q9CJ01	1.21	1.05	1.32	1.83	1.93	1.1	1.51	1.26	1.5	1.51	1.01	1.99	1.24	1.91	1.01	1.99	1.24	1.91	-0.4075	0.228712	0.139804	0.177819	1	0.995511	0.907523
Ncdn	Ncdn	Q6Z425	0.78	0.83	0.62	1.09	0.89	0.69	0.4	0.79	0.84	1.21	0.68	0.47	0.6	1.52	0.31	0.04	-0.1375	-0.03	-0.2325	0.465493	0.169393	0.507944	1	0.995511	0.902804
Ncdn	Ncdn	Q4F729	-0.38	0.32	-0.02	0.85	0.14	-0.28	0.06	-0.83	-0.26	1.76	0.66	-0.27	0.55	0.64	0.44	0.68	0.005	0.28	0.385	0.988207	0.585271	0.260359	1	0.995511	0.780004
Ncdn	Ncdn	Q9CP96	0	-0.02	0.58	0.99	-0.25	0	0.4	0.95	0.03	0.76	0.86	-0.06	-0.09	0.4	0.7	0.49	-0.1125	0.04	-0.0125	0.745037	0.902593	0.003499	1	0.995511	0.936699
Ncdn	Ncdn	Q9CJ25	2.17	0.65	1.13	0.62	1.78	1.05	1.33	0.6	1.19	0.4	0.7	1.24	0.05	0.85	0.05	-0.19	0.025	-0.3							



Nip7	E9I0109	0.21	-0.1	-0.84	-0.41	0.25	-0.28	-0.26	-0.44	1.3	0.07	-0.22	-0.39	1.64	1.83	0.17	0.28	0.1025	0.475	1.265	0.709436	0.276501	0.020206	1	0.995511	0.621926
Nip8	Q8BHKL1	-0.59	-0.15	-0.52	-0.67	-0.32	-0.28	-0.92	-0.25	-0.07	-0.3	-0.41	-0.62	0.35	0.24	-0.67	-0.1	-0.18	0.1325	0.4375	0.518645	0.527238	0.141759	1	0.995511	0.737973
Nip13	Q8BG05	0.37	0.71	0.86	0.61	1.64	0.48	-0.17	0.7	1.29	1.82	0.65	0.75	2.4	1.92	0.98	0.57	-0.0725	0.3025	0.7325	0.841142	0.193906	0.099286	1	0.995511	0.698156
Nip14	Q8CKD5	0.6	-0.13	-0.26	-0.13	-0.4	0.55	-0.49	-0.38	0.97	0.73	-0.46	0.01	1.46	-0.03	0.17	0.47	-0.2	-0.1725	-0.0975	0.522198	0.857131	0.207456	1	0.995511	0.785338
Nipsnp1	Q5S125	0.78	0.34	0.55	0.5	0.58	0.97	-0.54	0.2	-0.8	-0.54	0.2	0.47	-0.89	-1.92	0.35	0.27	-0.24	-0.71	-1.09	0.468586	0.048005	0.065857	1	0.995511	0.661738
Nipsnp2	Q5S126	0.72	0.56	0.58	0.94	-0.09	0.84	0.09	0.61	-0.41	-0.24	0.64	0.3	-0.55	-1.38	0.02	-0.55	-0.3375	-0.5075	-1.315	0.196288	0.047007	0.020222	1	0.995511	0.419079
Nipsnp3	Q5CDE1	-0.4	0.03	0.05	0.24	0.08	-0.1	0.29	0.16	-0.46	0.94	0.29	-0.31	-0.82	0.19	-0.3	0.27	0.175	-0.095	-0.1525	0.36076	0.691212	0.56184	1	0.995511	0.51998
Nit1	Q8BTM9	-0.92	-0.74	-0.38	-0.5	-0.87	-0.77	-0.31	-0.29	-0.46	-0.29	-0.36	-0.85	-0.29	-0.33	-0.56	-0.67	0.075	0.145	0.1725	0.731753	0.504451	0.420394	1	0.995511	0.875558
Nit2	Q8VXK1-2	0.31	0.32	0.04	-0.19	0.31	0.4	0.17	-0.04	-0.6	0.17	0.17	0.35	-0.74	-0.58	0.04	0.22	0.09	-0.0975	-0.385	0.641884	0.711457	0.196503	1	0.995511	0.78004
Nit3	Q8HW12	0.43	0.38	0.46	0.06	0.48	0.47	0.59	0.56	0.17	0.02	0.56	0.44	0.07	0.63	0.19	0.49	0.1925	-0.045	-0.0225	0.248102	0.827004	0.921213	1	0.995511	0.98743
Nit4a	Q8RM64	0.74	0.48	-0.16	-0.31	0.127	0.45	-0.5	-0.45	-0.27	0.58	-0.28	0.35	-0.47	-0.58	-0.48	-0.47	0.025	0.3025	0.7325	0.841142	0.193906	0.099286	1	0.995511	0.598796
Nit4b	Q8RCES	-0.22	-0.26	-0.4	-0.57	-0.41	-0.55	-0.77	-0.9	-0.17	-1.62	-0.86	0.35	-1.57	-0.03	-1.2	-1.16	-0.295	-0.123808	-0.421958	0.818828	0.818828	0.818828	1	0.995511	0.937268
Nit4c	Q8CR56	0.82	-0.22	0.22	0.8	-0.21	0.33	0.38	0.91	0.71	0.53	0.61	0.65	-0.09	1.28	0	0.41	-0.0525	-0.22	-0.005	0.873485	0.423035	0.989723	1	0.995511	0.996154
Nit4r	QA668KL1	0.46	0.12	-0.15	0.2	0.07	0.14	0.25	0.12	0.15	-0.16	0.44	0.13	0.74	0.43	0.84	0.37	-0.0125	-0.0825	0.4375	0.943925	0.713117	0.740707	1	0.995511	0.671115
Nig1	E9K3K4	0.28	0.55	0.25	0.49	0.76	0.13	0.58	0.69	0.09	0.31	0.45	0.42	-0.41	0.75	-0.04	0.33	0.1475	-0.075	-0.235	0.458331	0.675862	0.411193	1	0.995511	0.874811
Nig2	Q8B2X0	0.74	0.49	0.75	0.64	0.94	0.51	0.74	0.74	0.04	0.44	0.59	-0.81	-0.36	0.39	0.6	1	0.235	-0.095	-0.2475	0.412224	0.693807	0.23919	1	0.995511	0.876297
Nig3	A2AGI2	0.72	0.89	1.29	1.49	0.95	0.78	1.14	0.22	0.64	0.84	1.51	0.79	-0.16	1.03	0.79	1.2	-0.0625	-0.14	-0.37	0.775637	0.608377	0.300751	1	0.995511	0.830276
Nig4	B0F284	1.05	1.22	1.18	1.08	0.95	1.2	0.37	0.95	1.6	1.21	1.35	1.12	1.53	1.42	0.73	0.43	-0.265	-0.185	-0.105	0.226362	0.311124	0.715553	1	0.995511	0.958106
Nik1	Q54949	0.56	0.47	0.31	-0.97	0.89	0.51	-0.4	-1.1	-0.05	-1.29	-0.54	0.29	-0.14	0.42	-1.14	-1	-0.1175	-0.465	-0.5575	0.828881	0.338466	0.265304	1	0.995511	0.817264
Nin	Q51VY2	0.82	0.58	-0.12	-0.14	0.36	0.02	0.16	-0.03	0.59	-0.12	0.18	0.64	0.49	0.45	-0.32	0.31	0.0075	0.0375	-0.2075	0.823644	0.920248	0.540473	1	0.995511	0.912112
Nin1	Q3T144	0.4	0.36	0.42	0.47	-0.04	0.41	0.44	0.23	0.34	0.19	0.39	0.09	0.13	-0.17	-0.25	-0.01	-0.1525	-0.16	-0.4875	0.374555	0.338685	0.022464	1	0.995511	0.621926
Nin3	Q9N148	-1.13	-0.26	-1.86	-1.58	-3.17	-0.61	-1.78	-1.62	-1.68	-1.48	-1.58	-1.6	0.06	-2.47	-1.9	-1.51	-0.0875	0.6125	0.2525	0.868992	0.225947	0.646086	1	0.995511	0.944749
Nin5	P15532	0.69	0.03	-0.17	0.14	-0.37	0.38	0.15	0.2	0.31	-0.1	0.2	0.71	-0.03	-0.36	0.07	-0.5	-0.0825	-0.1075	-0.3775	0.748688	0.687261	0.168299	1	0.995511	0.759484
Nin6	Q9NV45	0.37	0.04	0.38	-0.01	0.02	0.97	0.52	0.34	0.58	0.97	0.5	0.6	0.73	0.68	0.31	0.53	0.0275	0.4675	0.3675	0.232192	0.040552	0.099009	1	0.995511	0.698156
Nin7	Q3UMG6	-0.75	-0.72	-0.57	-0.25	-0.3	-0.98	-0.69	-0.53	-0.82	-0.3	-0.25	-0.89	-0.47	-0.13	-0.15	-0.33	-0.0525	0.0075	0.3025	0.80345	0.974394	0.162651	1	0.995511	0.757516
Ninmat1	Q9EP47	-1.81	-1.68	0.03	0.4	-1.15	-1.91	0.52	-0.36	-1.99	-0.89	-0.65	-2.08	-1.26	-1.18	-0.46	0.24	0.13	-0.5475	0.19	0.845059	0.359242	0.7408	1	0.995511	0.958796
Ninmat2	Q8BN13	-0.5	0.04	0.7	0.33	0.01	-0.12	0.82	0.69	0.73	1.4	1.05	-0.01	0.73	0.54	1.28	1.27	0.2075	0.05	0.8125	0.541131	0.114137	0.930585	1	0.995511	0.641481
Ninmat3	Q9J9B6	0.03	0.17	0.33	0.03	-0.08	0.14	0.31	0.05	0.61	0.52	0.05	-0.13	0.6	0.21	0.2	0.12	-0.2575	-0.01	0.1725	0.714984	0.674138	0.25023	1	0.995511	0.986107
Ninmat4	D3YU12	0.02	0.01	0.12	0.54	0.18	-0.5	0.13	0.1	0.15	0.38	0.13	0.1	0.15	0.26	0.17	0.1	0.06	-0.44075	-0.385	0.126881	0.152764	0.171266	1	0.995511	0.972768
Nin5	Q70310	-3.23	-3.81	-2.49	-2.39	-3.61	-3.44	-2.38	-2.35	-3.08	-1.73	-2.63	-3.21	-2.28	-2.6	-2.83	-2.68	0.035	0.3175	0.3825	0.936873	0.681295	0.292556	1	0.995511	0.825497
Nin6	Q70311	-1.24	-1.49	-0.96	-1.12	-1.52	-0.99	-0.97	-1	-1.29	-1.63	-0.86	-1.21	-0.83	-1.56	-1.53	-1.4	0.0825	-0.045	-0.1275	0.688094	0.842968	0.600525	1	0.995511	0.930802
Nnt	Q61941	-0.94	-6.32	-3.48	-3.57	0.98	1.23	1.03	-3.56	0.91	-2.88	1.26	0.49	-5.3	4.61	0.08	1.53	4.4975	5.9625	0.006045	0.407	0.505	0.020929	1	0.1236	0.921622
Nn1	Q2JG5R	0.26	0.49	0.95	0.94	0.61	0.94	0.25	1.84	0.8	0.28	0.02	0.15	0.18	0.15	0.15	0.15	0.025	0.348919	0.388838	0.628	0.22	0.015	1	0.995511	0.958106
Nn1	Q8BW10	0.58	0.84	2.55	2.12	0.48	0.51	1.05	1.94	0.14	1.94	2.3	0.61	-1.33	3.85	-0.65	1.74	-0.5275	-0.275	-0.62	0.34759	0.67211	0.589059	1	0.995511	0.925131
Nn2	J30XS2	2.37	0.66	2.42	1.1	1.31	1.69	3.42	1.54	0.63	1.09	2.28	1.97	0.96	0.14	3.2	2.82	0.3255	-0.145	0.1425	0.560721	0.789625	0.85414	1	0.995511	0.976225
Nn3	Q8V84	1.28	0.94	1.42	0.9	1.85	1.19	1.21	1.63	1.69	1.23	1.2	0.64	1.47	1.18	1.44	1.34	0.335	0.005	0.3775	0.165573	0.836684	0.107724	1	0.995511	0.706141
Nn4	Q8BH92	-0.5	0.42	-2.32	-1.98	-0.48	-0.2	-1.74	-0.05	-3.19	-1.7	0.08	0.45	-0.32	-1.71	1.45	0.09	0.2725	0.353235	0.2725	0.835335	0.796287	0.796287	1	0.995511	0.958106
Nn5	Q3T510	0.17	0.43	0.74	0.8	0.33	0.22	-0.15	0.84	-0.08	0.29	0.51	0.04	0.4	0.18	0.46	1.17	-0.39	-0.345	-0.1825	0.209993	0.158192	0.608094	1	0.995511	0.934303
Nn10	Q5RG14	0.31	0.74	0.07	0.82	0.67	0.36	-0.8	0.5	0.73	0.97	0.68	0.46	1.32	0.22	0.65	0.4	-0.3025	0.225	0.4125	0.412636	0.330907	0.190253	1	0.995511	0.776843
Nn11	Q8BHW5-2	-0.23	0.58	1.17	1.08	-0.52	0.41	0.78	1.43	1.29	0.51	1.83	-1.13	1.83	1.29	1.13	0.93	-0.125	0.975	0.395	0.794656	0.377069	0.369604	1	0.995511	0.859245
Nn12	Q9D1X0	-0.82	-1.46	-2.32	-1.88	-1.24	-1.03	-2.17	-2.32	-0.64	-1.08	-2.19	-1.12	-0.84	-1.06	-2.36	-2.16	-0.07	0.3625	0.24	0.889533	0.417238	0.764121	1	0.995511	0.952944
Nn14	F7RNB	-7.03	-9.28	-2.22	-0.5	-0.04	-2.6	-0.81	-0.59	-0.47	-0.81	-0.75	-0.23	-0.78	-0.24	-1.24	1.825	0.554457	0.359102	0.718	0.24	0.175	0.62	1	0.995511	0.929267
Nn16	Q8RS4-2	1.15	1.11	0.26	1.18	0.08	0.61	-0.02	0.15	1.18	-0.06	0.39	0.87	0.71	1.24	0.24	0.56	-0.22	-0.08	0.0125	0.531868	0.827713	0.797039	1	0.995511	0.952944
Nn17	Q50723-2	1.09	2.01	-0.29	-1.2	0.11	0.53	-1.54	-0.42	1.24	0.04	-1.18	0.93	0.65	1.43	-1.37	0.64	-0.7325	-0.145	-0.065	0.348848	0.857886	0.398084	1	0.995511	0.989844
Nn18	Q8XKD1	-0.43	-1.23	0.53	0.61	-1.91	1.14	0.43	0.34	0.22	0.54	0.81	-0.42	0.54	-2.3	0.03	0.55	-0.085	0.2025	-0.38	0.90579	0.674237	0.605052	1	0.995511	0.932425
Nn19	Q3TZ42-2	-0.76	-1.1	-1.94	-1.62	-1.01	-0.8	-0.91	-0.24	-1.08	-0.5	-1.7	-1.09	-0.17	-2.57	-1.2	1.09	0.125	0.880522	0.757844	0.761867	0.761867	0.761867	1	0.995511	0.958106
Nn1c	QA28BYD	0.99	0.64	1.02	0.44	0.06	0.7	-0.17	0.08	1.91	-0.03	0.89	0.41	2.63												

Nubp1	Q9R060	-0.74	-0.87	-1.26	-0.82	-1.41	-1.18	-1.33	-1.11	-0.69	-0.7	-1.01	-0.83	-0.58	-1.3	-1.31	-1.25	-0.3325	0.115	-0.1875	0.092742	0.554586	0.455106	1	0.99511	0.887169	
Nubp2	A0A3QAL2	-0.23	0.41	-0.3	-0.38	-0.12	-0.36	-0.6	-0.34	0.32	-0.41	-0.45	-0.37	0.45	-0.3	-1.21	-0.86	-0.2325	-0.105	-0.3575	0.323044	0.702184	0.374483	1	0.99511	0.859424	
Nubp3	Q5CWD8	-0.01	0.24	0.7	-0.13	0.77	0.83	0.43	0.29	0.34	0.36	0.28	0.07	0.03	-0.08	0.68	-0.065	-0.0025	-0.066818	0.992735	0.993218	0.993218	1	0.99285	0.996485		
Nucb1	Q02819	-1.04	-0.78	-1.54	-1.24	-0.13	-1.05	-0.69	-1.12	-1.76	-0.86	-1.16	-1.05	-0.75	-0.91	-0.12	-0.58	-0.4025	-0.0575	0.56	0.176141	0.830352	0.057634	1	0.99511	0.661738	
Nucb2	P81117	1.03	-0.95	-1.68	-1.37	-0.25	1.01	-0.63	-1.18	-0.58	-0.6	-1.24	-1.17	0.71	-0.32	-0.63	-0.28	-0.6	0.48	0.035	0.285	0.493634	0.961671	0.617856	1	0.99511	0.937274
Nucb3	A0A08FW7	-3.06	-4.49	-2.24	-2.77	-4.52	-4.24	-4.78	-5.44	-2.63	-0.86	-2.13	-2.78	-3.51	-3.28	-4.99	-4.06	-1.605	1.04	-0.82	0.010747	0.108562	0.171442	1	0.99511	0.763325	
Nucd1	G15685	-0.41	-0.26	-0.01	-0.16	-0.11	-0.07	-0.1	-0.59	-0.1	-0.75	-0.86	-0.48	-0.41	-0.14	-0.33	-0.18	0.09	-0.0175	-0.235	-0.113	0.023247	0.384717	0.41362	1	0.99511	0.912212
Nucd2	Q6P95	1.98	1.5	-0.3	-0.32	0.8	1.6	-0.4	-0.46	-0.7	-0.61	-0.73	1.85	-1.24	-1.04	-0.94	-0.74	-0.33	-0.7625	-1.705	0.642196	0.347196	0.013547	1	0.99511	0.586837	
Nucd2	Q5CQ48	0.77	1.02	0.75	0.68	0.73	0.74	0.78	0.71	-1.67	0.14	0.87	0.89	-1.71	-1.23	-0.69	0.61	-0.19	-0.7475	-1.215	0.323815	0.203984	0.059709	1	0.99511	0.661738	
Nucd3	Q8R194	-0.48	-0.62	-0.5	-0.68	-0.2	-0.41	-0.86	-0.5	-1.27	-0.38	-0.63	-0.37	-0.91	-0.86	-0.49	-0.48	0.0775	-0.0925	-0.115	0.679201	0.704333	0.561544	1	0.99511	0.91997	
Nucd4	P10D23	0.36	-0.06	-0.06	-0.1	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.075	0.757897	0.180739	0.807865	1	0.99511	0.971863	
Nucd5	Q5DCV1	0.16	0.36	0.58	0.25	0	0	0.41	0.23	0.22	0.88	-0.08	-0.07	-0.11	0.62	0.04	0.58	0.31	-0.1625	-0.339571	0.375071	0.386371	1	0.99511	0.845778		
Nucd6	Q81ZU0	1.94	-0.72	-1.36	-0.83	-1.37	-2.09	-2	-1.8	-0.46	-3.02	-1.36	-1.56	-2.5	-1.11	-0.24	-1.61	-1.5725	-1.3575	-1.1225	0.045387	0.126493	0.18089	1	0.99511	0.775542	
Nucd14	Q50142	1.06	1.07	-0.85	-0.32	1.34	1.48	-0.7	-0.64	1.52	-0.39	-0.53	0.98	0.68	1.69	-0.32	-0.91	0.13	0.155	0.045	0.852996	0.80951	0.947428	1	0.99511	0.920414	
Nucd15	Q8B693	-0.63	-0.03	-1.14	-1.23	-1.05	-1.12	-0.97	-1.73	0.01	-0.68	-1.12	-0.82	-0.08	0.65	-1.28	-0.91	-0.46	0.105	0.3525	0.174617	0.768769	0.47003	1	0.99511	0.890428	
Nucd16	Q6P300	-0.41	-0.54	-0.1	-0.34	-0.45	-0.34	-0.52	-0.03	-0.28	-0.75	-0.86	-0.48	-0.27	-0.96	-0.12	-0.38	0.0825	-0.34	-0.6075	0.652129	0.095528	0.778831	1	0.99511	0.967289	
Nucd16b1	Q8VNH8	-0.71	-1.88	-0.93	-1.29	-1.44	-0.71	-0.65	-0.86	-1.62	-1.3	-0.77	-1.5	-1.66	-1.4	-1.18	0.4	0.2875	-0.095	-0.0925	0.363704	0.765526	0.764629	1	0.99511	0.964134	
Nucd17	Q5CW03-2	0.72	0.8	0.85	0.76	-0.41	1.04	-0.52	0.19	1.1	-0.72	0.52	-0.03	0.97	0.05	-0.13	0.15	-0.7075	-0.0675	-0.5225	0.607082	0.823373	0.079718	1	0.99511	0.688188	
Nucd18	Q3U2V3	1.08	1.05	-0.35	-0.29	1.43	1.01	-0.16	-0.61	0.6	-0.61	-0.2	1.18	-0.06	0.83	-0.56	-0.77	0.045	-0.13	-0.5125	0.937171	0.804409	0.319699	1	0.99511	0.838969	
Nucd19	P10D30	1.18	1.01	0.45	0.32	0.78	0.15	0.53	0.29	-0.57	-0.94	0.11	0.09	-1.02	-0.36	0.06	0.11	0.0235	-0.505	-0.545	0.243452	0.11474	0.108717	1	0.99511	0.707444	
Nucd21	P56380	-2.04	-2.47	-0.5	-0.67	-1.95	-1.67	-0.02	-0.23	-2.62	-1.78	-0.5	-2.26	-2.77	-2.93	-0.43	-0.18	0.4525	-0.37	-0.1575	0.480792	0.55336	0.843641	1	0.99511	0.976225	
Nucd21	Q5CQF3	-4.14	-5.65	-4.53	-4.96	-4.94	-5.03	-4.04	-4.62	-4.62	-5.1	-4.27	-4.61	-3.95	-3.95	-2.92	-4.37	0.1625	0.8175	1.0225	0.665687	0.164519	0.373675	1	0.99511	0.658454	
Nucd31	1E4K47	2.48	0.92	2.24	-0.11	-0.37	3.08	0.43	1.39	-3.22	-2.02	1.6	1.98	-2.31	-6.01	1.44	0.75	-0.5	-1.7975	-2.915	0.61766	0.185125	0.096199	1	0.99511	0.698156	
Nucd41	Q8R2U6	-0.54	-0.62	0.09	-0.41	-0.49	-0.55	-0.5	-0.44	-0.47	0.25	-0.27	-0.55	-1.26	-1.18	-0.73	-0.14	-0.225	0.11	-0.2075	0.324901	0.673862	0.516974	1	0.99511	0.905748	
Nucd51	Q8X0K6	-0.71	-0.9	-2.03	-2.16	-0.98	-0.79	-1.81	-2.1	-1.89	-2.32	-1.66	-0.9	-1.53	-1.05	-2.57	-2.85	0.03	-0.25	-0.55	0.947569	0.58334	0.311225	1	0.99511	0.834523	
Nucd7	Q9P930-3	0.36	0.45	-0.4	-0.37	0.75	0.71	0.13	-0.26	0.62	-0.76	-0.34	0.57	0.62	0.67	-0.31	-0.27	0.3225	0.0125	1.68E-01	0.335764	0.974667	0.63562	1	0.99715	0.9419	
Nucd8	Q9CR24	0.05	0.11	-1.12	-0.36	-0.29	-0.18	-0.07	-0.4	0.01	-0.61	-0.5	0.06	0.07	0.17	-0.91	-0.55	0.095	0.07	0.025	0.745365	0.831776	0.946632	1	0.99511	0.993276	
Nucd9	Q8V8U5	-0.37	-0.24	0.37	0.62	-0.62	-0.63	0.59	0.77	0.1	0.49	0.19	-0.43	0.26	-1.61	0.6	0.36	-0.0675	0.12	-0.1925	0.872007	0.745667	0.71973	1	0.99511	0.958106	
Nufp2	Q5Z727	-2.13	-2.19	-2.24	-2.11	-1.67	-2.21	-1.45	-2.44	-1.16	-1.52	-1.24	-1.65	-0.97	-1.44	-1.22	-1.79	-0.235	0.2	0.78	0.353999	0.023625	0.045483	1	0.99511	0.950241	
Numa1	Q9T670	0.96	0.59	0.78	0.95	0.07	0.46	0.07	0.5	0.63	0.74	0.59	0.44	0.91	0.36	0.8	0.59	-0.545	-0.22	-0.155	0.016568	0.234097	0.464964	1	0.99511	0.988267	
Numb	Q9Z253-4	1.82	0.48	1.74	1.64	0.21	1.87	1.1	1.54	0.63	1.31	1.44	1.72	0.65	0.08	1.24	1.28	-0.24	-0.145	-0.6075	0.593385	0.902061	0.161533	1	0.99511	0.757516	
Numb1	Q08919	-0.02	0.19	0.35	0.73	0.25	0.05	0.6	0.74	-0.01	0.82	0.34	0.14	-0.11	0.57	0.51	0.1	0.0775	0.272831	0.672696	0.796327	1	0.99511	0.993727			
Nup107	Q8BH14	0.17	0.14	0.34	0.24	0.34	0.55	0.3	-0.05	-0.77	0.17	0.89	-0.12	-0.36	0.04	0.1	0.1	0.025250	-0.15	0.14	0.922550	0.044533	0.628136	1	0.99511	0.920204	
Nup133	Q8R069	0.87	1.04	0.48	0.61	0.04	0.79	0.51	0.92	0.88	0.71	0.25	0.41	1.09	1.61	1.07	0.93	0.065	-0.1875	0.425	0.748051	0.414209	0.095922	1	0.99511	0.698156	
Nup153	Q9J368	0.78	0.31	0.57	0.82	-1.21	0.34	0.16	1	0.5	0.99	0.65	0.05	1	1.2	1.11	0.66	-0.2975	-0.0725	0.3725	0.306586	0.772569	0.115297	1	0.99511	0.717287	
Nup155	A0A2R8VH	0.25	0.17	-0.24	-0.41	0.26	-0.12	0.39	0.19	-0.33	-0.11	-0.22	-0.43	0.07	0.27	0.63	0.44	0.2375	-0.44	0.41	0.291158	0.115364	0.11340	1	0.99511	0.714953	
Nup160	Q2D2V3	1.18	1.01	0.45	0.32	0.78	0.15	0.53	0.29	-0.57	-0.94	0.11	0.09	-1.02	-0.36	0.06	0.11	0.0235	-0.505	-0.545	0.243452	0.11474	0.108717	1	0.99511	0.707444	
Nup188	Q6QZJH8	0.29	-0.08	0.77	0.79	-0.38	0.24	0.67	1.03	0.06	0.53	0.62	-0.43	0.72	0.19	1.47	1.21	-0.0525	-0.2475	0.455	0.8819	0.447303	0.216475	1	0.99511	0.787313	
Nup205	B9E154	0.63	0.41	0.33	-0.03	-0.61	0.46	0.4	0.59	-0.73	0.39	0.13	-0.07	-0.46	-0.3	0.83	0.85	0.18	-0.6	-0.105	0.348696	0.040394	0.777715	1	0.99511	0.967289	
Nup210	Q9Y081	0.71	0.71	0.52	0.47	0.75	0.64	0.73	0.91	0.2	0.34	0.48	0.05	0.83	0.8	1.37	1.19	0.155	-0.335	-0.445	0.328761	0.088979	0.959887	1	0.99511	0.661738	
Nup214	Q8U0U5	1.17	0.81	0.44	0.62	0.71	0.69	0.19	0.5	0.21	0.29	0.52	0.43	0.69	0.57	1.01	0.81	-0.2125	-0.3975	0.01	0.348471	0.088613	0.96498	1	0.99511	0.9597	
Nup315	Q8H486	-0.71	0.83	0.57	0.72	0.54	-0.52	0.59	0.89	0.75	0.59	0.46	0.57	0.59	0.46	0.57	0.46	0.3675	0.208598	0.3675	0.085522	0.146326	1	0.99511	0.750291		
Nup317	Q9CWU9	-0.18	-0.3	-0.03	-0.41	-0.98	0	-0.75	-0.28	-0.25	-0.3	-0.58	-1.16	-0.97	-0.85	0.56	0.34	-0.2725	-0.3425	0.485	0.296969	0.198467	0.231484	1	0.99511	0.788863	
Nup43	P59235	0.24	0.01	0.26	0.48	-0.56	0.28	0.37	0.58	0.21	-0.27	-0.13	-0.24	1.21	-0.31	0.39	-0.38	-0.355	0.1075	0.770011	0.099786	0.749105	1	0.99511	0.961014		
Nup45	Q9JH82	0.53	-0.35	0.39	0.46	-0.85	0.16	0.07	0.66	-0.12	0.4	0.47	-0.05	0.8	-0.67	0.93	1.3	-0.2475	-0.0825	0.3375	0.498953	0.760455	0.463904	1	0.99511	0.888267	
Nup45	Q8H575	-0.14	-0.21	-0.11	-0.24	-0.04	0.24	0.04	0.24	-0.04	0.24	0.04	0.24	-0.04	0.24	0.04	0.24	0.15	0.1275	0.467147	0.402556	0.641178	1	0.99511	0.961738		
Nup58	Q8R332-4	1.85	1.58	0.92	0.92	0.86	1.41	1.12	1.47	1.36	1.1	0.69	1.05	1.68	2.1	1.68	1.07	-0.1025	-0.2675</								

Pac2c	AOA1Y7VU2	0.28	0.26	-0.22	-0.47	0.15	0.3	0.01	-0.15	1.21	-0.69	-0.02	0.32	1.13	-0.53	0.17	0.13	0.115	0.2425	0.2625	0.617052	0.562681	0.494159	1	0.956511	0.89758
Pac2m1	OB6144	0.67	0.45	0.53	0.8	0.25	0.47	0.47	0.64	0.31	0.15	0.39	0.57	0.19	0.47	0.21	0.19	-0.15	-0.2575	-0.3475	0.365184	0.18042	0.08877	1	0.956511	0.96149
Pac2m2	AOA2NRW6	1.46	1.56	1.55	1.52	1.28	0.57	0.52	1.26	0.35	0.78	1.22	0.89	0.23	0.78	0.36	0.87	0.615	-0.3775	-1.4525	0.021764	0.015089	0.02921	1	0.956511	0.45967
Pac2m3	Q9VWV8	0.69	0.53	0.6	0.41	0.47	0.58	0.43	0.44	0.65	1.19	0.36	0.7	0.4	-0.0775	0.24	-0.0775	0.602556	-0.062556	-0.453294	0.900704	0.000704	1	0.956511	0.983757	
Pac2m3	Q9J9B8	-0.34	-0.24	0.35	0.28	0.02	-0.51	0.45	0.38	-0.57	0.33	0.55	-0.24	-0.76	-0.04	0.13	-0.02	-0.0725	0.005	-0.185	0.798447	0.982721	0.521174	1	0.956511	0.907667
Pac2d	Q08642	0.9	0.97	0.59	0.23	1.5	0.45	0.43	0.07	0.57	0.3	0.41	0.81	0.37	0.63	0.76	0.66	-0.06	-0.15	-0.0675	0.859883	0.524485	0.77135	1	0.956511	0.965933
Pa1c	Q8ZT78	-0.2	-1.4	-0.8	-1	-1.32	-1.08	-0.83	-0.77	-0.94	-0.56	0.71	-1.38	-0.14	-0.18	0.05	1.25	-0.1075	-0.095	-0.3975	0.534048	0.779111	0.13681	1	0.956511	0.841799
Pafab1a1	PE0005	0.11	-0.02	0.25	0.28	0.19	0.16	0.4	0.24	-0.03	0.17	0.32	-0.22	-0.17	0.63	0.23	0.08	0.0925	0.015	0.0375	0.555563	0.931231	0.86903	1	0.956511	0.97929
Pafab1b2	AOA1L15V9	-1.24	-1.08	-1.04	-1.35	-0.94	-1.74	-1.41	-1.76	-0.68	-2.36	-1.45	-1.16	-1	-0.76	-2	-1.58	-0.285	-0.235	-0.1575	0.228377	0.51093	0.604793	1	0.956511	0.932185
Pafab1b3	OB1205	0.51	-0.6	0.39	-0.54	-0.77	0.56	0.72	-0.1	-0.79	-0.37	0.5	0.76	-0.13	-0.79	0.36	0.6	0.1625	0.005	-0.15	0.701685	0.847444	0.752194	1	0.956511	0.961479
Pafab1c	EQ2N042	0.02	0.13	0.08	0.35	0.02	0.37	0.02	0.12	-0.02	0.12	-0.02	0.12	-0.02	0.12	0.17	0.17	-0.0175	-0.0175	-0.2725	0.039713	0.242078	0.038623	1	0.956511	0.846523
Pa1g	Q3U1U9	0.45	0.53	0.67	0.53	1.13	0.08	0.51	0.48	0.19	0.82	0.73	0.79	-0.59	-0.03	0.25	0.43	-0.095	-0.0025	-0.335	0.707497	0.454548	0.15422	1	0.956511	0.750363
Pa1cs	Q9C0C9	0.09	-0.46	0.81	0.91	-0.63	-0.15	0.46	0.99	-0.24	0.13	0.64	0.02	-0.58	-0.43	0.69	0.38	-0.17	0.025	-0.3225	0.703972	0.951587	0.456046	1	0.956511	0.887169
Pa1p1	FOV616	0.25	0.2	-0.08	-0.11	-0.08	0.06	-0.36	0.04	0.48	0.52	0.07	0.31	0.67	0.6	-0.02	-0.31	-0.15	0.28	0.17	0.413467	0.17201	0.54481	1	0.956511	0.912212
Pa1p2b	Q91W45	-0.76	-0.73	0.65	0.12	-1.82	-0.96	-1.23	-0.79	-0.96	0.85	-0.11	-1.17	-0.38	-0.2	0.07	0.14	-0.12	-0.1675	0.0875	0.102654	0.753085	0.807798	1	0.956511	0.971953
Pa1k	Q5E884	0.2	0.17	0.06	0.2	0.23	0.76	-0.09	0.14	-0.08	0	0.01	0.28	0.43	0.21	-0.21	-0.0725	-0.155	-0.3475	0.654065	0.384061	0.12122	1	0.956511	0.721448	
Pak1p1	Q9C0E5	0.41	-1.57	-2.6	-2.39	-1.47	-2.24	-2.63	-2.89	-1.88	-0.83	-2.44	-1.5	-1.32	-1.08	-2.05	-2.39	-0.315	0.08	0.2825	0.440606	0.817871	0.49526	1	0.956511	0.879758
Pak2	Q8C9C4	0.17	0.32	0.72	1.24	0.23	0.02	0.66	1.23	0.14	0.9	0.66	0.27	-0.21	0.51	0.23	0.53	-0.0775	-0.12	-0.3475	0.822658	0.692095	0.27397	1	0.956511	0.822084
Pak3	OE1036	0.74	-0.47	0.01	0.09	-0.53	0.58	0	0.19	-0.1	0.12	0.1	0.61	0.54	-0.2	0.19	-0.11	-3.25E-02	0.09	0.0125	0.921435	0.762739	0.96758	1	0.956511	0.95927
Pak4	Q8BTW9	-0.95	0.12	-0.22	-0.02	-0.61	0.04	0.35	-0.62	-0.98	0.42	-0.19	0.16	0.87	0.99	1.08	-0.21	-0.1175	0.1	1.4525	0.683856	0.099248	0.04729	1	0.956511	0.658454
Pak5	Q8C015	1.22	1.01	0.85	0.73	0.99	1.09	0.61	0.83	0.47	0.34	0.97	1.12	0.28	0.61	0.27	0.57	-0.0725	-0.2275	-0.52	0.701644	0.361703	0.029149	1	0.956511	0.637553
Pak6	G3ULB5	0.44	-0.18	0.39	1.04	0.24	0.69	0.67	1.03	1.23	0.9	0.96	0.21	0.2	0.64	0.82	1.12	0.235	0.4025	0.7725	0.435781	0.241385	0.087853	1	0.956511	0.961619
Pakap	F7AA26	1.04	0.81	1.3	1.21	1.08	0.95	1.01	0.92	1.09	0.97	1.21	1.32	0.87	0.81	1.45	1.52	0.1	0.0575	0.0725	0.555775	0.761778	0.77198	1	0.956511	0.965933
Pa1d1	AOA0R400	-0.59	-0.19	-0.91	-0.84	-0.26	-0.45	-0.6	-0.67	-0.46	-0.36	-0.89	-0.33	-0.52	-0.58	-0.81	0.91	0.1875	0.1725	-0.0225	0.335472	0.432796	0.144466	1	0.956511	0.968458
Pa1d2	Q8ET54-3	-1.34	-1.32	0.13	-0.01	-1.2	-1.47	-0.15	-0.15	-1.12	-0.31	-0.05	-1.18	-1.2	-1.09	-0.36	-0.31	-0.0325	-0.1	0.109	0.949939	0.845802	0.812214	1	0.956511	0.975262
Paln	Q9Z0P4-2	-0.16	0.58	-0.1	0.44	0.17	-0.3	0.86	0.19	0.61	0.25	0.64	0.4	0.37	2.09	0.42	0.76	0.29	0.285	0.72	0.433509	0.249805	0.116741	1	0.956511	0.718608
Paln2	Q9Z0P4	1.88	1.53	1.54	2	1.63	1.52	1.51	1.37	1.49	1.36	1.41	1.86	1.75	1.58	1.57	1.26	-0.23	-0.2075	-0.1975	0.217531	0.333841	0.366095	1	0.956511	0.858839
Paln3	Q8B9B2	1.22	1.73	0.98	0.83	1.42	1.15	0.89	0.07	1.27	-0.04	0.56	1.27	0.71	1.82	0.6	0.14	-0.3575	-0.425	-0.3975	0.290283	0.260253	0.340462	1	0.956511	0.846923
Paln1	A217V	0.42	0.86	1.07	1.18	1.13	1.13	1.05	1.49	1.27	1.13	1.09	1.47	1.06	1.12	1.15	0.13	0.375	0.42	0.465452	0.697698	0.336651	0.12661	1	0.956511	0.731866
Palnmd	AOA0R400	0.15	0.3	-0.43	-0.43	-0.17	-0.28	-0.46	-0.45	0.3	-0.08	-0.06	0.29	0.55	0.36	-0.45	-0.56	-0.1525	0.215	0.0775	0.550709	0.483088	0.818905	1	0.956511	0.972768
Paln2	Q9L1B2	0.67	0.84	0.84	1.06	0.78	0.38	0.34	0.53	0.71	1.14	0.84	0.68	0.75	0.95	0.76	0.69	-0.345	-0.1	-0.065	0.676818	0.958822	0.724068	1	0.956511	0.958398
Paln1	Q9L1B0	0.66	-0.1	1.17	0.94	0.12	0.08	0.35	0.71	0.91	1.19	1.05	0.82	0.64	2.3	0.61	1.58	-0.3525	0.5025	0.615	0.270282	0.185822	0.269094	1	0.956511	0.785338
Pa1p2	Q9L1B0	0.2	0.17	0.06	0.2	0.23	0.76	-0.09	0.14	-0.08	0	0.01	0.28	0.54	0.1	-0.12	-0.12	-0.475	-0.531994	0.1	0.56112	0.91167	0.11	1	0.956511	0.929476
Pam	P7467	0.37	0.42	-0.38	0.02	0.49	0.21	-0.09	0.16	0.66	0.97	-0.13	0.45	0.44	0.48	0.78	0.53	0.085	0.38	0.45	0.720577	0.22793	0.087456	1	0.956511	0.691619
Pam16	Q9C0V1	0.69	0.57	-0.2	0.14	-0.23	1.13	-0.64	-0.11	2.09	0.78	-0.29	0.92	2.6	0.15	-0.52	-0.73	-0.2625	0.575	0.075	0.524139	0.261479	0.191663	1	0.956511	0.985656
Pan2	Q8BGF7-2	-0.36	0.47	0.71	0.03	0.13	-0.44	0.12	0	0.05	1.09	0.53	-0.23	-0.18	-0.52	0.24	0.62	-0.26	0.1475	-0.1725	0.359628	0.686414	0.617254	1	0.956511	0.937141
Pa1c3	H18K71	0.27	0.56	0.22	-0.07	-0.57	0.09	-0.33	0.1	0.34	1	0.32	0.28	0.54	1.99	0.26	-0.21	-0.1175	0.235	0.0225	0.263809	0.477504	0.13612	1	0.956511	0.929476
Pan1	Q8K4K6	2.45	2.81	2.12	1.91	2.18	1.14	1.65	2.5	1.04	2.38	2.02	2.24	1.03	1.2	2.88	3.2	-0.455	-0.4025	-0.245	0.210622	0.727607	0.556869	1	0.956511	0.948659
Pan2k	Q7M753	0.48	0.18	0.59	-0.15	0.24	0.31	0.43	0.43	0.08	0	0.17	0.57	-0.01	-0.09	0.1	0.01	0.0775	-0.07	-0.2725	0.70459	0.768533	0.237866	1	0.956511	0.797272
Pan4k	Q8QVY4-2	-0.31	-0.19	0.16	0	0.04	-0.22	0.27	0.19	-1.11	-0.56	0.06	-0.34	-0.93	-0.4	-0.07	0.11	0.155	-0.4025	-0.2375	0.421116	0.172639	0.396153	1	0.956511	0.867334
Pan1	Q9I9P4	0.28	0.83	0.65	0.65	1.02	0.64	0.81	1.1	1.14	0.34	0.89	0.84	0.86	1.2	0.4	1.14	0.285	0.199	0.2925	0.165218	0.414612	0.260885	1	0.956511	0.81412
Pan2	Q6M94-2	1.19	1.2	0.76	1.12	1.09	1.23	0.6	0.86	1.17	0.88	1.36	1.74	0.72	0.87	0.16	0.16	-0.1875	-0.440928	0.1875	0.440928	0.501473	0.931127	1	0.956511	0.931127
Panx	Q8C0L6	-0.29	-0.59	-0.88	-1.13	0.1	-0.24	-0.48	-0.78	-1.17	-0.73	-0.63	-0.5	-0.74	-0.2	-1.05	-0.99	0.3725	-0.035	-0.225	0.187019	0.890416	0.396865	1	0.956511	0.989767
Papola	OE1183	-1.26	-0.72	-2.47	-2.61	-0.74	-1.31	-1.85	-3	-1.17	-1.11	-2.18	-1.2	-1.65	-0.86	-2.72	-2.52	0.04	0.35	-0.1725	0.947497	0.483088	0.765926	1	0.956511	0.961434
Pan1p3	Q6ZM78	-1.06	-1.15	-0.95	-1.3	-0.91	-1.14	-0.8	-1.24	-1.29	-0.28	-1.1	-0.88	-1.08	-0.89	-1.12	0.0925	0.2275	0.0725	0.599716	0.380423	0.690403	0.000403	1	0.956511	0.955729
Pap2c2	AOA4H485	0.42	0.17	0.42	0.12	0.48	0.52	0.46	0.84	1.17	0.96	0.77	1.28	0.64	0.81	0.61	0.14	0.125	0.274442	0.324155	0.476178	0.13612	0.73	1	0.956511	0.955117
Paq4	Q9IUE4	-1.05	-1.24	-0.59	-0.65	-1.24	-0.58	-0.33	-1.04	-3.56	-1.75	-0.87														

Pde1c	Q8CDV2	1.41	0.29	-4.62	-3.02	-0.76	0.49	-4.08	-3.91	0.79	-2.38	-3.5	1.36	0.89	1.14	-3.02	-5.43	-0.58	0.5525	-0.12	0.720637	0.737204	0.949098	1	0.965511	0.992476	
Pde2a	Q5PR72	1.39	0.91	1.67	2.05	-1.14	1.68	-0.44	1.04	2.28	0.59	1.16	0.83	2.76	-2.42	1.48	0.88	-1.22	-0.29	-0.33	0.080394	0.497316	0.420447	1	0.965511	0.987738	
Pde3b	E9QLC3	-0.15	1.09	-0.75	0.14	-0.37	0.14	-0.49	0.74	1.29	0.25	1.28	0.47	0.84	0.42	0.17	-0.17	0.9	0.55	0.681219	0.073813	0.131095	1	0.965511	0.786931		
Pde4a	Q89084	0.59	0.39	-0.03	0.11	0.16	0.38	0.28	0.01	0.77	0.38	0.16	0.79	0.61	0.47	-0.09	-0.17	-0.0575	-0.26	0.025	0.768288	0.288892	0.918792	1	0.965511	0.986868	
Pde4b	Q89VU5	0.6	0.43	0.25	0.5	0.14	0.29	0.06	0.34	0.36	0.3	0.28	0.76	0.35	0.04	0	-0.07	-0.2375	-0.07	-0.365	0.164215	0.916598	0.085468	1	0.965511	0.961619	
Pde4b	E9PVU7	2.66	2.01	0.56	0.47	2.3	3.09	0.46	0.6	0.55	0.61	0.66	2.87	1.1	0.46	0.48	0.41	0.1875	-0.2525	-0.8125	0.805727	0.723689	0.148033	1	0.965511	0.746406	
Pde4b	Q89VY7-2	-1.11	-1.14	1.58	1.6	-2.17	-2.14	-2.29	-0.07	-0.75	-2.08	-1.48	0.14	0.05	-2.13	1.92	-0.71	0.2575	0.43	0.002456	0.487372	0.374611	1	0.965511	0.831611		
Pde5a	QA0GJ2F6	-1.46	-0.97	0.64	0.29	-0.9	-0.5	-0.29	0	-0.43	1.07	-0.02	-0.33	-1.18	-0.3	0.2	0.94	-0.0475	0.4475	0.29	0.923129	0.432372	0.637977	1	0.965511	0.942804	
Pde5d	O55057	0.99	1.03	0.32	0.6	1.16	0.92	0.95	0.59	-0.79	0.04	0.58	1.2	-0.54	-2.04	0.86	0.75	0.17	-0.4775	-0.9775	0.46076	0.284353	0.151384	1	0.965511	0.749435	
Pde7a	P70453	-1.95	0.09	-2.45	-1.99	-1.58	-0.86	-2.21	-2.38	-0.91	-0.48	-2.06	-1.03	-2.19	-0.34	-2.25	-2.55	0.2475	0.405	-0.2575	0.071683	0.458163	0.709234	1	0.965511	0.957656	
Pde7b	E9PWZ6	-1.15	-1.29	-0.76	-1.15	-1.36	-1.86	-2.21	-0.76	-0.95	-0.82	-1.43	-1.27	-0.32	-1.37	-0.17	-0.17	0.9	-0.22	0.800183	0.983348	0.517993	1	0.965511	0.906808		
Pde7b	O88502	0.27	0.59	-1.02	-1.74	0.01	1.6	1.23	1.64	0.44	-1.27	-1.13	0.17	0.99	1.58	-1.02	-1.41	0.5425	-0.6325	-0.1075	0.711567	0.517264	0.921047	1	0.965511	0.987438	
Pde8b	E90816	0.27	0.05	0.61	1.19	0.48	0.44	0.14	0.48	1.58	2.4	0.49	-0.05	1.75	0.46	2.31	-0.26	-0.36	0	0.56	0.299021	0.301529	0.356288	1	0.965511	0.855416	
Pde8b	E9PX38	0.64	0.38	1.61	1.61	0.85	1	1.84	1.76	0.49	0.53	1.5	0.35	0.51	1.38	1.71	0.3025	-0.3425	-0.1035	0.444659	0.40035	0.934269	1	0.965511	0.989767		
Pde8a	QA04948A	0.8	1.63	0.51	0.78	0.06	0.88	1.07	0.71	0.69	0.74	0.61	0.47	1.02	1.35	0.5	1.45	-0.375	-0.3025	0.15	0.258463	0.274739	0.448837	1	0.965511	0.946117	
Pdf	S452K0	0.21	0.25	0.96	1.04	0.48	0.66	0.66	0.66	1.14	0.87	1.04	1.14	0.53	1.04	1.48	0.74	1.2	0.05	0.2775	0.5	0.462025	0.327681	0.10472	1	0.965511	0.711551
Pdgha	P26618	0.51	1.23	-0.15	0.29	0.59	0.13	0.09	-0.02	1.07	1.08	0.31	0.88	0.38	1.04	0.14	0.37	-0.2775	0.3065	0.0125	0.394056	0.294721	0.97115	1	0.965511	0.992803	
Pdghb	E90N12	-0.35	-0.17	0.72	0.77	0.45	-0.61	0.58	0.76	-0.62	0.02	0.52	-0.46	-0.46	-0.26	0.77	0.68	0.0525	-0.1675	-0.06	0.895709	0.330282	0.884451	1	0.965511	0.979767	
Pdghb	P35486	0.93	0.62	0.46	1.01	0.3	0.65	0.27	0.83	0.38	0.53	0.6	0.76	0.3	-0.45	0.08	0.15	-0.2425	-0.1875	-0.735	0.275587	0.362426	0.014133	1	0.965511	0.589387	
Pdhh	Q50551	0.31	0.48	0.67	0.95	0.11	0.35	0.44	0.74	-0.54	0.77	0.23	0.14	0.53	0.05	0.26	-0.1025	-0.1675	-0.4275	0.381736	0.467135	0.100379	1	0.965511	0.698156		
Pdhx	Q8K829	1.36	1.25	0.66	0.93	0.86	1.1	0.46	0.67	1.65	0.98	0.69	1.19	1.54	1.54	0.42	0.44	-0.2775	0.0775	-0.065	0.245885	0.775588	0.854364	1	0.965511	0.976225	
Pdhx	P27773	0.71	0.04	-0.04	0.16	0.58	0.68	0.7	0.37	-0.19	0.18	-0.08	0.96	0.17	0.1	1.01	0.81	0.365	7.85E-17	0.305	0.113151	1	1	0.320463	1	0.965511	0.839916
Pdia	QA0RKA02	0.2	0.22	-0.23	-0.04	0.75	0.28	0.11	0.02	-0.16	0.33	-0.31	0.5	0.48	0.6	1.24	0.81	0.2525	0.0525	0.745	0.268843	0.830985	0.01162	1	0.965511	0.566767	
Pdia5	Q52136	-0.55	-0.42	-1.14	-0.72	-0.1	-0.32	0.63	-0.57	0.06	-2.55	-0.3	-0.16	-0.68	0.47	0.12	-0.14	0.6175	-0.03	0.65	0.065897	0.95954	0.055377	1	0.965511	0.661738	
Pdia5	Q3TM10	-0.97	-0.88	-0.76	-0.84	-0.27	-0.72	-0.28	-0.19	0.52	-1.14	-1.01	-0.81	-0.63	-0.27	0.58	0.13	0.32	0.2525	1.38	0.139496	0.503899	0.006873	1	0.965511	0.552514	
Pdia1	Q88F99	-0.42	0.04	0.12	-0.13	-0.32	0.27	-0.25	-0.14	0.07	-0.55	0.14	-0.28	0.65	-0.89	-0.21	-0.22	-0.0125	-0.0575	-0.07	0.951877	0.804059	0.83613	1	0.965511	0.975831	
Pdia2	O59K42	1	0.6	0.38	0.16	0.64	1.13	0.75	0.29	0.28	0.1	0.53	0.63	0.41	0.48	0.28	0.41	0.1675	-0.15	-0.14	0.521911	0.458163	0.954506	1	0.965511	0.912246	
Pdia3	Q5ZH72	0.73	0.97	0.01	0.24	0.29	0.76	0.2	0.62	0.34	-0.71	0.2	0.49	0.18	0.16	-0.66	-0.49	-7.00E-02	-0.075	-0.59	0.788483	0.254383	0.054	1	0.965511	0.661738	
Pdia4	O75671	1	1.33	0.19	1.37	0.51	1.5	1.07	0.88	0.77	0.35	0.39	1.07	0.16	0.16	2.55	0.05	-0.0775	-0.0075	-0.2275	0.991618	0.432386	0.122269	1	0.965511	0.907274	
Pdlim1	P70400	-1.49	-1.16	-0.38	-0.57	-0.41	-1.54	-0.09	-0.18	-0.99	-1.28	-0.03	-0.77	-1.07	-0.41	-0.67	-0.24	0.345	0.1325	0.3025	0.397421	0.714563	0.558092	1	0.965511	0.856465	
Pdlim3	O70209	-0.72	-0.54	-1.48	-0.81	-0.52	-0.92	-1.11	-1.09	-0.75	-2.65	-1.47	-0.45	-1.04	-0.61	-1.61	-0.96	-0.0225	-0.4425	-0.1675	0.930076	0.31885	0.584295	1	0.965511	0.927734	
Pdlim4	P70271	-0.19	-0.52	-0.61	-0.3	-0.44	-0.89	-0.41	-0.38	0.01	-1.2	-0.25	-0.34	0.1	0.56	-0.1	-0.43	-0.125	-0.56	0.4375	0.520368	0.1461	0.1175	1	0.965511	0.718609	
Pdlim5	Q81C51	-0.19	-1.12	-0.95	-0.56	-1.75	-0.66	-0.52	-0.37	-0.93	-0.51	-1.15	-0.47	-0.84	-0.12	0.34	0.28	0.1562	0.260435	0.6721	0.84	0.12	0.14	1	0.965511	0.874626	
Pdlim7	O3T107	-2.04	-2.37	-2.56	-3.08	-2.15	-2.22	-2.66	-2.93	-2.02	-4.43	-2.72	-1.59	-2.36	-2.27	-2.84	-2.3	0.0225	-0.1775	-0.07	0.937397	0.770069	0.800739	1	0.965511	0.975099	
Pdp1	A2A1P9	0.2	0.43	0.46	0.72	0.25	0.21	0.7	0.9	0.05	0.61	0.52	0	0.01	0.22	0.29	0.42	0.08625	-0.1575	-0.2175	0.779303	0.486965	0.297583	1	0.965511	0.826881	
Pdp2	O504M2	-0.19	-0.18	0.81	0.94	-0.75	-0.08	0.16	1.16	-0.41	1.31	0.57	0.24	0.03	-0.41	0.72	0.87	-0.2225	-0.0825	-0.0425	0.63441	0.812627	0.917695	1	0.965511	0.986868	
Pdp4	O522A0	0.54	0.27	-0.42	0.35	0.36	0.25	0.44	-0.29	-0.08	-0.86	-0.52	0.34	-0.26	0.53	-0.52	-0.1875	0.878633	-0.39216	0.3	0.19473	0.904427	0.43	1	0.965511	0.927734	
Pdp4	O7T508	0.17	0.21	0.45	0.86	0.06	0.37	0.15	0.85	-0.14	0.07	0.66	0.03	-0.33	0.02	0.12	0.15	-0.065	-0.2675	-0.4325	0.794683	0.825025	0.092726	1	0.965511	0.695968	
Pd5a	QA0626	-1.47	-2.45	-2.22	-1.95	-2.06	-2.11	-3.06	-3.12	-1.84	-0.61	-2.28	-1.99	-1.64	-2.03	-2.73	-2.81	-0.565	0.3425	-0.28	0.12966	0.407468	0.431833	1	0.965511	0.879165	
Pd5b	F8HWU5	-0.81	-1.64	-1.23	-1.07	-0.8	-1.43	-0.79	-1	-1.76	-1.48	-1.07	-1.34	-1.29	-1.21	-0.41	-0.52	0.1825	-0.225	0.33	0.461423	0.378121	0.288354	1	0.965511	0.824705	
Pd5d	QA0RKA03	-2.01	-1.47	-1.2	-1.6	-0.96	-1.86	-1.36	-1.53	-1.8	-0.99	-1.27	-1.27	-1.48	-1.49	-1.69	-1.1	0.1425	-0.26	0.0775	0.587722	0.345933	0.737008	1	0.965511	0.958385	
Pdia	Q81K51	-0.18	-1.12	-0.86	-0.8	-1.46	-0.96	-1.27	-0.43	-1.22	-0.77	-0.43	-1.22	-0.77	-0.43	-1.22	-0.77	-0.43	-1.22	-0.77	0.115	0.822306	0.245722	0.716427	1	0.965511	0.924737
Pdpcp	P60487	-0.25	0.06	-0.44	-0.26	0.01	-0.37	-0.5	-0.38	-0.2	0.53	-0.69	-0.11	-0.24	0.65	-0.65	-0.88	-0.8875	0.105	-0.0775	0.647431	0.711152	0.886961	1	0.965511	0.972923	
Pdyn	O3S852	1.61	0.63	-0.22	0.85	0.89	0.65	1.1	1.09	1.51	1.33	0.31	1.3	1.34	0.98	1.75	0.57	0.215	0.395	0.4425	0.567389	0.387688	0.319513	1	0.965511	0.838969	
Pdtd11	E9QJ34	1.08	1.39	0.44	0.62	1.23	1.28	1.07	0.67	1.37	0.61	0.81	2.28	0.96	2.06	0.34	0.79	0.18	0.385	0.155	0.50157	0.361667	0.704753	1	0.965511	0.957084	
Pdtd2	E9J1M1	0.12	0.02	0.63	0.8	1.38	1.57	1	1.66	2.18	3.17	2.45	1.58	1.48	2.4	2.87	3.76	0.05	0.175877	0.147179	0.987468	0.971627	0.61	1	0.965511	0.958014	
Pdtd4	A2AFG3	1.13	1.55	1.07	1.1	0.77	1.18	0.18	1.16	1.68	0.32	0.57	1.27	2.24	1.12	1.85	1.22	-0.39	-0.2525	0.395							

Phylpnl	Q8BG78	2.93	1.39	1.11	0.13	1.7	3.02	1.05	1.27	-0.48	0.42	1.01	2.87	-0.26	-0.57	1.08	1.18	0.37	-0.435	-1.0325	0.579933	0.601552	1.048563	1	0.995511	0.746831
Phk42a	OZTB66	0.28	0.49	0.35	-0.15	0.8	0.24	0.67	0.22	-0.21	0.13	0.43	0.48	-0.13	0.24	0.49	0.46	0.24	-0.035	0.0225	0.300777	0.883936	0.924753	1	0.995511	0.988301
Phk4a	EQ3J42	0.19	0.12	0.93	0.57	0.78	0.56	1.09	0.84	-0.06	0.95	0.39	0.06	0.31	0.8	1.08	1.08	0.215	-0.28	-0.07	0.28682	0.305567	0.81912	1	0.995511	0.972462
Phk4b	Q8BKC8-2	-0.73	-0.69	-0.08	-0.37	-0.31	-0.63	-0.34	-0.5	-0.19	-0.17	-0.09	-0.56	-0.28	-0.06	-0.4	-0.56	0.0225	0.3	0.1425	0.911086	0.234932	0.939677	1	0.995511	0.912122
Phk4p	A0M0N45V	1.83	1.3	1.23	0.03	1.1	1.75	1.01	1.45	2.88	2.78	0.95	1.6	2.95	1.08	2.57	1.19	-0.52	0.455	0.35	0.203445	0.351363	0.742832	1	0.995511	0.891741
Phk4p	Q9M055	-1.17	-0.75	-2.48	-3.75	-2.04	-1.59	-7.28	-6.26	0.05	-2.49	-4.91	-0.17	-0.52	-1.39	-2.57	-3.58	-2.255	0.1575	-0.6425	0.141434	0.895963	0.774365	1	0.995511	0.924918
Phk4p	Q7M6V34	-0.14	0.2	0.36	0.73	-0.07	-0.21	0.9	0.65	-0.07	-0.21	0.17	0.2	0.2	0.99	0.36	0.71	0.01	-0.29	0.585	0.393265	0.043616	0.212153	1	0.995511	0.921236
Phk4p	A0A115U9	-0.76	1.98	2.01	2.99	2.26	-0.25	1.38	3.56	1.38	2.43	2.36	0.1	-1.44	1.02	1.41	1.06	0.1825	-0.0375	-0.8175	0.857801	0.966736	0.416544	1	0.995511	0.879495
Phk4p	Q7M6V3-5	-0.2	-0.67	-0.37	-0.2	-0.43	-0.26	-0.34	-0.05	-0.26	-0.62	0.01	-0.44	-0.19	0.08	-0.87	-0.82	0.09	0.0325	-0.09	0.622311	0.879546	0.748546	1	0.995511	0.960744
Pick1	E9PZU5	0.45	0.49	0.43	0.24	0.23	0.06	0.32	0.35	1.25	0.15	0.43	0.53	1.87	0.26	0.26	0.29	-0.0275	0.1875	0.2675	0.863226	0.477629	0.499871	1	0.995511	0.903036
Pick1	Q3JRG02-2	0.19	0.17	-2.46	-0.13	-0.37	-0.73	-2.83	-2.41	-0.25	-0.13	0.8	1.6	-2.85	-0.15	-0.28	-0.15	-0.285	-0.772	0.0255	0.355931	0.798877	0.958862	1	0.995511	0.992636
Phb	Q9J100	-1.59	-0.78	-0.62	1.54	-2.37	-0.73	-2.83	1.87	0.42	0.06	1.21	-1.64	1.14	-1.75	1.34	1.02	-0.6525	0.39925	0.8	0.563505	0.238912	0.380112	1	0.995511	0.860984
Pickg	D3Z3Y1	-0.16	-0.17	-1.65	-0.96	0.41	-0.53	0.35	-1.05	-0.69	-1.39	-0.97	-0.38	-0.62	0.09	-1.04	-1.01	0.53	-0.1225	0.09	0.274848	0.759343	0.831889	1	0.995511	0.974043
Pickg	Q9CY0Y	-1.6	-1.28	-0.38	-0.4	-0.63	-1.17	0.04	-0.14	-0.4	-0.89	-0.34	-1.37	0.06	-0.82	0.46	0.05	0.44	0.165	0.8525	0.277211	0.664611	0.056717	1	0.995511	0.966178
Pickg	A0A087W9	-0.54	-0.28	0.14	-0.5	-1.06	-0.22	0.53	-0.44	0.11	-2.28	-0.8	0.01	-0.86	0.33	-1.2	-0.94	0.0475	-0.405	-0.3725	0.891028	0.411583	0.25213	1	0.995511	0.842881
Pickg	A2AC36	-0.33	0.75	-0.45	-0.98	-0.15	0.29	0.11	-0.17	2.19	0.21	-0.33	0.1	1.1	0.86	0.71	0.6475	1.2	1.52	0.012988	0.067817	0.193813	1	0.995511	0.641481	
Pickg	B8K6K7	0.3	0.09	0.58	0.49	0.32	0.06	0.6	0.32	0.14	0.14	-0.15	0.2	0.16	0.87	0.85	0.54	-0.04	-0.0575	0.24	0.83517	0.841594	0.328592	1	0.995511	0.844843
Pickg	Q6P206	-0.54	0.04	0.35	0.52	0.76	-0.31	0.91	0.53	-0.61	0.59	0.26	-0.28	-0.64	-0.1	1.01	0.93	0.38	-10.025	0.2075	0.288552	0.769206	0.639967	1	0.995511	0.942804
Pickg	B8K0X2	-0.67	-0.42	-0.6	0.5	0.8	-0.35	-0.24	0.53	-0.48	-0.91	-0.56	-0.56	-0.04	-0.01	0.54	0.3	0.4675	-0.08	0.74	0.147811	0.655787	0.006221	1	0.995511	0.952514
Pickg	Q3TA08	-1.35	-1.09	-0.77	0.32	-0.58	-0.38	-0.34	-0.01	-1.04	-0.58	-0.74	-1.53	-0.73	0.67	0.04	0.11	0.395	-0.35	0.72	0.299547	0.53988	0.123597	1	0.995511	0.721428
Phk1d1	Q9CJ02	-0.44	-0.35	-0.26	0.08	-0.52	0.02	-0.58	-0.33	-0.38	-0.45	-0.4	-0.39	0.38	-0.49	-0.62	-0.63	-0.11	0.0275	-0.0975	0.956872	0.912896	0.733606	1	0.995511	0.958635
Phk3ap1	Q9E3C2	-3.46	-3.43	-4.11	-4.12	-3.74	-2.96	-2.29	-3.78	-3.82	-0.03	-3.18	-0.46	-2.41	-2.64	-2.94	-3.85	0.5875	-0.2425	0.82	0.511595	0.557634	0.047906	1	0.995511	0.658454
Phk3a2a	F8PVL2	-0.53	-0.09	0.1	0.07	0.18	-0.44	0.07	-0.04	-0.29	-0.21	0.25	-0.25	0.01	0.1	0.27	0.19	0.055	-0.0125	0.205	0.803969	0.959316	0.362723	1	0.995511	0.858475
Phk3a3	F9C2L56	0.31	0.41	0.39	0.13	0.43	0.22	0.08	0.05	0.22	-0.2	0.25	0.33	-0.03	0.34	0	0.05	-0.115	-0.16	-0.22	0.40197	0.412295	0.258007	1	0.995511	0.812074
Phk3a4	Q42337	-0.92	-0.58	-0.71	-0.24	-0.41	-0.96	-0.66	-0.45	-0.63	-0.23	-0.38	-0.44	-0.84	-0.2	-0.9	-1.01	-0.0075	-0.0675	-0.1275	0.972225	0.777845	0.627213	1	0.995511	0.939737
Phk3b	Q8B719	0.73	0.17	0.28	0.19	0.58	0.94	0.14	0.25	-0.21	-0.6	0.33	0.62	-0.43	0.6	-0.16	0.03	0.135	-0.3075	-0.6325	0.575726	0.330455	0.02294	1	0.995511	0.623147
Phk3d	B0QZL5	0.7	1.18	0.28	0.15	1.52	0.59	0.15	-0.02	0.98	2.21	0.88	1.43	0.91	1.08	0.83	-0.22	0.175	0.7975	0.0725	0.964456	0.056351	0.843938	1	0.995511	0.976225
Phk3p1	Z4NYS7	-0.25	0.11	-1.15	-0.41	-0.17	-0.2	-0.48	-0.73	0.78	0.64	-1.02	0.03	1.05	1.08	0.06	-0.19	0.039	0.73	0.78683	0.91787	0.246254	1	0.995511	0.785121	
Phk3i	F24502	-0.19	0.21	0.33	0.4	0.18	0.33	0.57	0.4	0.4	0.27	-0.56	-0.1	0.2	0.4	0.06	-0.1	0.27	-0.16	-0.5875	0.428975	0.264512	0.150587	1	0.995511	0.938987
Phk3p	Q90808	0.71	0.51	-0.24	-0.34	0.66	0.4	-0.12	-0.26	0.55	-0.28	-0.14	0.65	0.06	0.44	-0.59	-0.31	0.01	0.035	-0.26	0.975897	0.919742	0.458508	1	0.995511	0.887902
Phk3a	Q8V065	0.02	0.12	0.25	0.25	-0.02	0.05	0.06	0.42	0.03	-0.08	0.2	0.06	-0.09	0.13	-0.06	0.21	-0.0325	-0.1075	-0.1125	0.846802	0.520644	0.319097	1	0.995511	0.912122
Phk4fve	Q9Z1T6	0.61	0.82	0.07	0.14	0.63	0.41	0.31	0.2	0.81	0.04	0.26	0.58	0.48	0.66	0.31	0.08	-0.0225	-0.1075	0.0225	0.920274	0.962491	0.913171	1	0.995511	0.986458
Phk1	Q9JUR7	-0.32	-0.06	0.39	0.15	0.29	0.16	-0.49	-0.49	-0.12	0.13	-0.37	-0.11	0.86	0.71	0.11	0.06	-0.24	-0.165	0.619194	0.96819	0.917349	1	0.995511	0.930029	
Phk4	Q9CWCW6	-0.43	-1.12	-0.86	-0.47	-1.21	1.52	-0.83	-0.74	-0.59	-0.14	-0.89	-0.28	-0.76	0.16	-1.07	-1.04	0.405	-0.245	0.0425	0.495481	0.351271	0.898646	1	0.995511	0.983509
Phk42a	Q70172	0.18	-0.16	0.25	0.3	1.11	-0.24	0.29	0.37	-0.48	0.41	0.23	-0.53	-0.8	0.5	0.16	0.17	-0.01	-0.235	-0.135	0.960567	0.404756	0.663837	1	0.995511	0.949825
Phk42b	Q8X004	1.05	0.31	1.09	0.78	0.63	1.09	0.89	1.54	-0.69	0.84	0.92	0.7	-0.83	-0.38	0.81	1.03	0.2	-0.365	-0.65	0.402916	0.375342	0.180645	1	0.995511	0.775542
Phk42c	Q3JXU3	-0.59	-0.37	0.98	0.15	0.47	-0.54	-0.79	-1.18	-1.57	-0.77	0.1	0.1	-0.46	-0.83	0.03	-0.35	-0.365	-0.1	0.11	0.032156	0.421268	0.24993	1	0.995511	0.912122
Phk4p1	Q3JTWL2	-0.44	-0.52	-0.52	-0.51	-0.54	-0.14	-0.32	-0.54	-1.09	-0.84	-0.66	-0.35	-0.82	-1.04	-0.25	0.06	0.1125	-0.0735	-0.015	0.489745	0.262816	0.956525	1	0.995511	0.992636
Phk4p2	Q9CZX7	-0.54	-0.92	-0.62	-0.59	-0.82	-0.26	-0.23	-0.54	-0.61	-0.77	-0.37	-0.37	-0.54	-0.54	-1	-0.22	0.205	0.1375	0.0675	0.313841	0.472804	0.773969	1	0.995511	0.967289
Phk5k1a	F70182-3	1.57	0.33	0.13	0.95	-0.867	1.77	0.12	0.83	2.05	0.33	0.49	0.14	2.1	-0.61	0.46	0.24	-0.125	0.165	-0.04	0.847323	0.767816	0.950263	1	0.995511	0.992476
Phk5k2	F70181	0.64	0.68	0.52	0.71	0.98	0.77	0.57	1.05	-0.14	0.83	0.38	-0.6	1.53	1.52	0.35	0.47	0.205	-0.52	0.33	0.246718	0.126211	0.130278	1	0.995511	0.845254
Phk5k1c	F8WVW6	0.46	0.28	0.102	1.21	1.91	0.62	0.57	0.82	0.46	1.01	0.28	0.13	0.22	0.1	0.28	0.31	-0.215	0.758184	0.1	0.829047	0.968637	0.882129	1	0.995511	0.912122
Phk	A2AH8	1.54	0.48	0.03	0.17	1.01	1.59	-0.42	1.19	0.6	-0.4	1.4	0.64	0.74	-0.4	-0.52	0.0375	-0.255	-0.485	0.941899	0.621992	0.28645	1	0.995511	0.842995	
Phk1d1	Q8B9W2	0.32	0.08	-0.42	-0.12	-0.19	0.42	-0.89	-0.55	0.09	0.37	-0.45	0.27	-0.06	-0.33	-0.41	-0.71	-0.2675	0.105	-0.3425	0.045794	0.68761	0.183145	1	0.995511	0.776002
Phk4fve	PS3810	1.03	-0.03	0.23	-0.22	-0.02	0.89	-0.09	0.15	-0.13	-0.29	0.06	1.11	-0.46	-0.16	-0.16	-0.17	-0.13	-0.175	-0.6	0.681903	0.644764	0.048534	1	0.995511	0.658454
Phk4p2	Q8JZ25	-0.07	-0.17	0.62	0.54	-0.02	-0.67	0.37	0.47	0.32	-0.67	-0.56	-0.1	0.2	0.4	0.05	-0.1	-0.375	-0.3475	0.905288	0.523988	0.140428	0.72021	1	0.995511	0.983683
Phk1pnc1	Q8K484-2	8.78	1.1	-0.99	-1.23	8.36	-0.73	-0.36	1.79	-2.6	-2.26	7.81														

Prim8A8	Q80V48	0.47	0.95	0.58	1.33	0.64	1.22	0.39	0.91	0.69	0.89	0.99	0.18	0.77	1.02	1.41	1.19	-0.4425	-0.145	0.265	0.874928	0.605133	0.330361	1	0.995511	0.845524
Prim8B0	Q30X93	-0.83	-1.22	-1.2	-1.12	-1.72	-1.01	-1.18	-1.69	-0.48	-0.85	-1.36	-1.07	-0.40	-1.23	-1.73	-2.36	-0.4425	0.1525	-0.2275	0.066378	0.527278	0.640122	1	0.995511	0.842084
Prim	C35691	0.01	0.97	0.43	0.95	-1.19	0.4	0.64	1.07	0.81	0.95	0.10	1.01	0.23	0.31	0.10	0.27	-0.1643	0.3075	0.285	0.254353	0.53136	0.61428	1	0.995511	0.935047
Prim1	Q9P557	2.78	1.16	1.72	2.09	1.14	1.7	-0.71	0.74	2.73	2.04	1.22	2.45	2.98	0.42	1.66	1.41	-1.65	0.0265	0.43	0.013448	0.876846	0.438786	1	0.995511	0.883205
Primc	Q64387	-0.07	1.22	0.4	0.49	0.59	0.42	0.23	1.03	0.71	0.76	-0.92	0.49	0.7	0.76	1.66	0.0575	-0.25	0.71	0.853531	0.582608	0.088634	1	0.995511	0.691619	
Prim2	Q543K9	-0.48	-0.49	-0.29	-0.37	-0.14	0	-0.02	0.02	-0.56	-0.24	-0.3	-0.66	-0.65	0.74	-0.87	-0.22	0.3725	-0.0235	-0.2125	0.022849	0.855939	0.322408	1	0.995511	0.840788
Prim2a	Q8B556	3	2.73	2.11	0.15	0.14	0.47	0.49	-1.02	-0.38	0.29	-0.32	-0.08	1.84	0.08	0.45	1.44	0.78	-0.4725	0.08	0.633886	0.923197	0.4718	1	0.987551	0.914144
Prim6a	A01A10H1	-0.61	-0.05	0.01	-0.09	0.2	-0.46	-0.03	0	-0.19	0.15	-0.07	-0.6	-0.18	0.45	0.63	0.55	0.1125	0.0075	0.5475	0.61499	0.975068	0.061926	1	0.997551	0.662517
Prim6b	A2A188-2	-0.49	0.01	0.78	0.43	0.63	0.12	1.4	0.93	-0.59	0.96	1.07	-0.08	0.67	-0.46	0.68	1.63	0.5875	0.1575	0.4475	0.135719	0.731703	0.359798	1	0.995511	0.856645
Prim8a	Q8K1N1	0.37	0.76	0.19	-0.02	0.71	0.45	0.05	-0.11	0.58	0.15	0.14	0.75	0.8	1.08	-0.26	0.22	0.045	0.175	0.12	0.874213	0.530421	0.760134	1	0.995511	0.961323
Prim9	C91FV0	1.18	0.339	0.65	1.03	0.56	0.87	1	1.06	0.52	1.15	0.5	1.08	0.35	0.4	0.37	0.75	0.1513	0.392899	0.154756	0.37	0.755313	0.392899	1	0.995511	0.750563
Prim10	Q8K186	1.18	0.02	0.78	1.05	1.04	0.58	1.38	1	0.86	0.72	1.23	0.68	0.68	0.93	1.01	0.27	0.125	-0.03	-0.0725	0.600105	0.871881	0.695527	1	0.995511	0.955729
Prim1a	Q9R0M4	2.13	1.68	0.5	0.04	2.99	1.07	1.01	0.06	0.7	0.01	0.4	1.75	0.27	1.1	0.59	1.12	0.215	-0.325	-0.2975	0.765406	0.545276	0.561503	1	0.995511	0.919977
Prim2a	Q8X903	1.38	1.19	0.83	0.83	1.55	1.18	1.03	0.68	0.32	0.71	0.92	1.28	0.56	1.09	1.39	0.79	0.0525	-0.325	-0.11	0.827953	0.352317	0.698177	1	0.995511	0.955729
Prim1a	A2AMX3	-0.75	-0.45	-1.4	-1.63	-0.03	-0.4	-0.33	-0.11	-0.53	-0.78	-1.34	-0.51	-0.76	-1.08	-0.59	-1.47	0.615	-0.2225	0.0825	0.057176	0.675593	0.887419	1	0.995511	0.971178
Prim2a	Q8RH10	-0.94	-0.58	-0.9	-0.59	0.1	-0.17	-0.35	-0.68	-0.12	0.21	0.2	0.19	0.02	0.54	1.02	0.94	0.23	0.8775	1.4825	0.352213	0.001452	0.000423	1	0.995511	0.770112
Prim1a	Q8BY89	-0.42	-0.15	-1.58	-0.27	0.55	-0.88	-1.2	-1.55	-1.13	-0.82	-2.4	-0.76	-0.84	0.53	-0.61	-0.91	-0.285	-0.225	0.5975	0.633205	0.687703	0.727419	1	0.995511	0.822084
Prim1a	Q5E887	-0.13	-0.38	0.57	0.33	0.17	0.18	0.58	0.43	0	0.15	-0.14	0.11	0.41	-0.3	0.48	0.62	0.2425	-0.0675	0.205	0.345073	0.786428	0.511182	1	0.995511	0.903939
Prim1a	C91VU8	0.38	-0.13	0.07	-0.06	-0.32	0.21	0.04	0.04	0.49	-0.13	-0.35	-0.06	0.53	0.14	0.18	0.06	-0.095	-0.0775	0.1625	0.2626	0.746444	0.449035	1	0.995511	0.884817
Prim1a	Q8K409	-2.4	-3.69	-3.94	-3.65	-1.15	-3.17	-3.78	-3.98	-3.47	-2.11	-3.6	-2.63	-2.98	-2.6	-3.54	0.11	0.6775	0.3375	0.678537	0.055129	0.226735	0.226735	1	0.995511	0.787447
Prim2a	A9Y5G7	0.66	0.81	-2.75	0.33	0.46	0.54	-0.82	-0.67	1.1	1.73	-1.68	0.55	0.44	1.5	-0.45	-1.89	0.28	0.8275	0.3025	0.730184	0.415323	0.757268	1	0.995511	0.962481
Prim2a	Q91V46	-0.01	0.23	-0.19	-0.13	-0.17	0.11	-0.08	-0.24	0.41	-0.58	0.13	-0.02	0.82	-0.4	-0.6	-0.32	-0.07	0.01	-0.1	0.68441	0.961885	0.765982	1	0.995511	0.964134
Prim2a	Q8G881	0.18	-1.1	-0.39	0.29	-1.5	-0.29	-0.78	-0.1	-0.08	0.26	0.14	-0.83	0.16	-0.31	-0.23	-0.32	-0.4125	0.1275	0.08	0.338298	0.741086	0.813555	1	0.995511	0.972768
Prim2a	Q75VX0	-1.06	-0.89	-2.52	-1.97	-0.53	-0.69	-1.15	-3.27	-0.46	0.61	-3.25	-0.48	-1.39	-0.39	-3.04	0.3	0.425	0.035	0.695183	0.608845	0.954362	0.954362	1	0.995511	0.992476
Prim2a	Q90XK2	-5.51	-6.53	-7.09	-6.33	-9.67	-7.84	-11.42	-10.79	-5.31	-4.55	-4.07	-6.66	-9.06	-15.02	-5.66	-6.59	-10.065	1.2175	-0.1925	0.006983	0.74006	0.941815	1	0.995511	0.991085
Prim1a	P52432	-0.37	0.07	0.08	-0.7	-0.06	-0.71	-0.78	-1.08	-0.04	0.04	-0.68	0.28	-0.41	-0.28	-0.99	-0.31	-0.4275	0.13	-0.2675	0.162	0.653515	0.342961	1	0.995511	0.848473
Prim1a	P97304	-0.98	-0.6	-1.12	-2.01	-2.42	-1.55	-1.84	-1.85	0.97	-0.85	-1.79	-2.04	2.08	0.49	-1.52	-1.32	-0.7375	0.25	1.11	0.054104	0.713264	0.193445	1	0.995511	0.777907
Prim1a	C91V10	-0.02	0.03	0.89	1.28	1	-0.71	1.05	0.76	0.39	0.41	1.42	-0.39	-0.47	0.52	-0.1	1.27	-0.02	-0.8075	-0.1625	0.967185	0.849383	0.724849	1	0.995511	0.958398
Prim2a	A0AN04V0	0.04	0.74	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	1	0.995511	0.886254
Prim2a	Q8C717	0.03	-0.79	-0.29	-0.21	-1.14	-0.42	-0.54	-0.12	-0.9	-0.08	-0.45	-0.97	-0.12	-0.89	0.01	-0.35	-0.24	-0.285	-0.0225	0.398911	0.326479	0.934664	1	0.995511	0.987967
Prim2a	P97760	0.35	1.07	0.06	-0.26	0.53	0.21	-0.38	-0.43	-0.36	-0.01	-0.61	0.43	-0.21	1.65	-0.15	0.06	-0.3225	-0.4425	0.0325	0.327579	0.232916	0.947101	1	0.995511	0.992376
Prim2a	P97788	-0.75	-1	-0.08	-0.42	-1.34	-0.78	-0.04	0.04	0.49	-0.38	-0.68	-1.02	1.16	-0.88	-0.03	0.08	0.0325	0.165	0.75	0.929177	0.6562	0.167256	1	0.995511	0.759484
Prim2a	Q8OUV8	0.25	-0.58	-0.9	-0.59	0.1	-0.17	-0.35	-0.68	-0.12	0.09	-1.12	0.53	0.02	0.54	-0.1	-0.13	-0.07	-0.420906	-0.1239	0.430906	0.526992	0.979125	1	0.995511	0.979125
Prim2a	P62488	1.06	0.57	-0.27	-0.06	0.45	0.47	0.04	0.21	0.1	-0.49	-0.28	0.26	-0.32	0.7	-0.15	-0.54	-0.0325	-0.4275	-0.4025	0.917561	0.236565	0.321131	1	0.995511	0.839916
Prim2a	Q92362	0.22	0.43	-0.68	-1.09	0.55	0.14	-1.32	-1.1	-0.02	-1.21	-0.11	-0.16	0.34	0.19	-1.14	-0.73	-0.1525	-0.3425	-0.055	0.776479	0.452487	0.908145	1	0.995511	0.986458
Prim2a	D32260	-0.68	-0.77	-0.6	-1.08	-0.91	-0.57	-1.57	-0.78	-0.36	0.99	-0.93	-1.24	-0.19	0.13	-0.1	-0.96	-0.175	-0.3979	0.5025	0.428489	0.49049	0.995939	1	0.995511	0.698156
Prim2a	P62878	-0.57	-0.49	-0.27	-0.68	-0.13	-0.42	-0.46	-0.71	-0.12	-0.36	-0.49	-0.74	-0.14	0.74	-0.57	-0.5975	-0.060398	0.073716	0.716	0.940482	0.716	0.940482	1	0.995511	0.716
Prim2a	Q8M496	-0.04	0.02	0.01	-0.42	-0.09	0.29	0.63	0.14	1.23	0.18	-0.02	0.23	1	-0.69	0.04	-0.08	-0.035	0.5125	0.4	0.881004	0.119445	0.752717	1	0.995511	0.887169
Prim2a	A0A382W2	0.14	0.32	0.79	-0.03	0.85	0.05	0.98	0.57	-0.02	0.22	0.69	1.23	-0.08	-0.03	0.96	0.42	0.3325	7.85617	-0.2125	0.235431	1	0.536949	1	1	0.912212
Prim3a	B2RKC6	-1.47	-0.63	-3.21	-2.61	-0.22	-1.6	-2.2	-2.83	-1.04	-1.92	-2.84	-1.02	-1.81	-0.7	1.79	-2.56	0.2675	0.2625	0.265	0.713422	0.691398	0.676533	1	0.995511	0.952944
Prim3a	P54740	1.16	-0.53	-0.24	-1.78	0.29	1.01	0.03	-1.61	-0.17	0.13	-0.3	1.07	0.49	-0.02	0.03	-0.33	0.7775	0.425	0.145	0.708706	0.508056	0.784828	1	0.995511	0.969727
Prim3a	Q92483	-0.01	2.14	-0.16	-2.13	-0.14	-0.86	-1.09	-2.52	-1.14	-2.4	-1.02	1.89	0.67	-0.1	-0.1	-0.1675	0.525185	0.630766	0.646521	0.646521	0.646521	0.646521	1	0.995511	0.958473
Prim3a	C91W01	1.01	1.02	-0.17	-1.26	1.65	0.84	-0.61	-0.67	0.12	-0.91	-0.2	1.68	-0.28	0.37	-0.31	-0.14	0.1525	0.0225	-0.24	0.839955	0.748494	0.508086	1	0.995511	0.947407
Prim3a	Q9C2T4-2	0.25	-0.24	-0.88	-0.87	0.6	0.18	-0.45	-0.75	0.43	-0.37	-0.87	0.46	0.63	0.86	-0.41	-1.06	0.33	0.3475	0.44	0.404437	0.44053	0.831895	1	0.995511	0.860984
Prim3a	Q9C223	-1.22	-1.51	-0.98	-1.04	-1.21	-1.11	-1.02	-0.13	-3.04	-2.44	-1.3	-1.61	-0.33	-2.62	-1.2	-0.38	0.32	-0.91	-0.695	0.270089	0.40057	0.820363	1	0.995511	0.822084
Prim1a	Q8K471	-0.26	-0.23	-0.48	-0.16	-0.69	0.69	0.85	0.51	0.23	-0.66	0.65	0.85	0.65	0.85	0.65	-0.1	-0.25	-0.14368	0.870755	0.332	0.332	0.332	1	0.995511	0.870755
Prim121	Q8K329	0.63	0.38	-0.74	-0.63	-0.44	0.95	-1.05	-0.76	-1.67	-1.35	-1.13	-0.19													

Ppp5c	Q60676	0.39	0.39	0.61	0.66	0.46	0.36	0.21	0.68	-0.47	-0.69	-0.24	0.44	-0.57	-0.74	-0.75	-0.65	-0.085	-0.7525	-1.19	0.624588	0.020302	0.000107	1	0.995511	0.228506
Ppp6c	Q9C0R6	1.51	-0.26	0.19	0.62	-0.63	1.25	0.14	0.62	1.06	0.51	0.24	1.31	0.27	0.08	-0.11	-0.11	-0.17	0.265	-0.4825	0.738823	0.538751	0.236069	1	0.995511	0.787447
Ppp6r1	Q7T5J1	-0.34	-0.48	-0.4	0.31	0.5	-0.72	-0.44	0.54	-0.48	-0.26	0.35	-1.43	-1.23	-0.59	0.65	0.175	-0.125	-0.5425	0.478031	0.738877	0.995919	0.59	1	0.995511	0.661738
Ppp6r2	Q8R3Q2	-0.3	-0.17	-0.18	-0.61	-0.01	-0.25	0.11	-0.16	-0.09	-0.38	-0.26	0.16	-0.42	0.04	-0.57	-0.28	0.125	-0.02	-0.105	0.428402	0.901679	0.60367	1	0.996609	0.931296
Ppp6r3	G5E8R4	-0.22	0.2	-0.27	-0.15	-0.21	-0.14	-0.07	-0.28	-0.2	-0.35	-0.26	-0.2	-0.41	-0.24	-0.74	-0.42	-0.09	-0.1675	-0.3675	0.580045	0.350658	0.998993	1	0.995511	0.698156
Ppp6r4	A0A28BYC1	-0.56	1.12	-0.27	0.13	-0.47	-0.68	0.86	0.78	0.07	1.12	0.37	-1.09	-0.99	0.3	0.06	0.97	0.2075	-0.0325	-0.065	0.664363	0.952363	0.988949	1	0.996755	0.983509
Pppl1	O8E531	-1.1	-1.57	-1.58	-0.45	-0.16	-0.48	0.14	0.31	-2.02	-1.56	-0.7	-1.45	-1.79	-0.69	-0.74	-0.24	0.975	-0.525	0.5625	0.020144	0.496568	0.993117	1	0.995511	0.691749
Pppl2	Q6NVE9	1.06	0.84	-0.6	-0.77	0.94	0.75	-0.32	-0.63	-0.84	-1.1	-0.73	1.08	-0.44	-0.65	-0.59	-0.16	0.0525	-0.53	-0.5925	0.92548	0.409864	0.21524	1	0.995511	0.787447
Pppl7	Q8CEC6	-0.83	-0.99	-2.05	-0.05	-1.12	-1.06	-1.81	-1.39	-1.45	0.98	-1.59	-0.89	-1.31	-1	-1.7	-2.31	-0.385	0.2425	-0.6	0.366479	0.713179	0.222417	1	0.995511	0.787447
Pppl9	Q8N1V5	-0.18	-2.13	-1.42	-1.28	-2.2	-1.58	-1.45	-1.2	-1.75	0.19	-1.28	-0.91	-1.14	-0.81	-0.56	-1.7	-0.355	0.005	0.1975	0.414894	0.909931	0.660841	1	0.996744	0.949645
Ppplc1	A0A0N4891	5.67	0.31	0.19	0.47	0.13	0.75	0.12	0.74	0.26	5.62	-1.90	-1.25	0.36	0.1	0.18	0.425	0.585	1.4175	0.333364	0.538751	0.735455	1	0.995511	0.958635	
Ppplc2	Q9UG68	-0.23	-0.33	0.45	0.34	0.71	-0.35	0.8	0.28	-0.07	1.91	0.4	-1.77	-1.69	0.01	0.86	1.36	1.27	0.4275	0.84	0.396595	0.383013	0.081719	1	0.995511	0.688685
Ppplc1	Q57144	0.48	0.88	0.3	0.34	0.52	0.85	-0.1	0.17	0.91	-0.22	0.28	0.8	1.47	1.32	0.37	0.31	-0.14	-0.0575	0.3675	0.587309	0.847148	0.290147	1	0.995511	0.825134
Ppplc1	Q9EQC8	-4.19	-3.63	-5.13	-4.98	-3.2	-3.52	-5.21	-5.75	-3.29	-2.08	-4.88	-3.64	-3.6	-3.57	-4.53	-5.91	0.0625	1.01	0.215	0.923499	0.1292	0.742984	1	0.995511	0.959128
Ppplc1	Q07MM0	-0.81	-1.11	-0.1	-0.79	-1.53	-0.49	0.16	-0.74	-0.77	-0.13	0.05	-1.61	-0.49	-0.56	-0.66	-0.53	0.1525	0.1375	0.1925	0.654981	0.727767	0.39532	1	0.995511	0.869626
Ppplc2	A2A7B5	0.58	0.01	0.66	0.5	-0.12	0.23	1.03	0.09	1.78	0.82	1.23	0.26	1.44	-0.27	0.8	0.91	0.425	0.585	1.4175	0.333365	0.115948	0.086107	1	0.995511	0.691749
Ppplc2	P33700	0.64	0.1	-0.16	-0.21	0.53	0.46	0.35	0.04	0.16	-0.18	-0.05	0.5	-0.33	-0.47	-0.58	-0.43	0.2525	0.05	-0.31	0.306367	0.954476	0.336726	1	0.996755	0.847578
Ppplc2	Q61171	-1.46	-1.18	-0.71	-0.1	-1.11	-1.34	-0.61	-0.33	-1.39	-0.4	-0.63	-1.4	-1.36	-0.31	-1.06	-1.03	0.015	-0.029	-0.0775	0.966733	0.807814	0.832058	1	0.995511	0.974476
Ppplc2	P20108	0.13	0.43	0.82	0.66	0.64	0.15	1.01	0.8	0.09	0.52	0.85	-0.05	0.02	0.36	0.69	1.12	0.14	-0.1575	0.0375	0.577384	0.563356	0.898384	1	0.995511	0.983509
Ppplc2	O08807	-0.32	-0.29	-0.3	-0.04	-0.11	-0.05	0.79	-0.01	-0.18	-0.37	-0.09	-0.28	-0.04	-1.1	-0.53	0.16	0.0475	0.0075	0.6775	0.070184	0.964897	0.368685	1	0.996755	0.658454
Ppplc2	P99029-2	1.39	0.95	1.46	0.81	0.98	1.27	3.41	1.42	0.33	1.55	1.52	0.86	0.25	0.35	1.74	2.13	0.6175	-0.3875	-0.035	0.263111	0.249433	0.941102	1	0.995511	0.991085
Ppplc2	Q6G724	0.66	-0.12	-0.02	0.34	-0.03	0.54	0.17	0.18	0.31	-0.54	-0.17	0.32	0.83	-0.61	-0.59	-0.21	0.05	-0.185	-0.725	0.827757	0.51716	0.016166	1	0.995511	0.951538
Ppplc2	Q9NWU02	-0.4	-0.26	-0.03	-0.44	-0.24	-0.35	-0.1	-0.45	-0.1	-0.06	-0.39	-0.36	0.3	0.16	0.65	0.13	0.1175	0.005	0.5925	0.576875	0.768354	0.018756	1	0.995511	0.602211
Ppplc2	A0A0N4891	-0.2	-0.16	-0.09	0.15	-0.29	-0.47	0.05	-0.04	-0.08	0.17	-0.01	-0.48	-0.02	0.56	-0.09	-0.41	0.1225	-0.025	0.095	0.556466	0.902637	0.705067	1	0.996609	0.957084
Ppplc2	Q9AK53	-2.96	-2.9	-2	1.99	-2.87	-3.37	-0.83	-1.88	-3.18	-3.28	-1.47	-2.99	-3.14	-2.29	-2.47	-1.88	-0.225	-0.075	0.0175	0.694345	0.57337	0.962164	1	0.995511	0.5927
Ppplc2	Q9QUR6	-0.74	-0.5	-0.52	-0.25	-0.45	-0.8	-0.22	-0.37	-0.41	-0.03	-0.34	-0.47	-0.78	-0.13	-0.66	-0.7	0.0425	0.1	-0.065	0.827187	0.341076	0.773864	1	0.995511	0.966062
Ppplc2	Q8C167-2	-1.46	-1.29	-2.09	-2.07	-1.21	-1.65	-1.67	-1.94	-1.7	-2.07	-2.01	-1.35	-1.56	-1.26	-1.85	-1.97	0.11	-0.055	0.0675	0.678714	0.842951	0.810096	1	0.995511	0.972222
Ppplc2	Q8Z9C0	1.02	0.53	0.33	0.41	0.88	1.17	0.12	0.67	0.35	-0.24	0.26	0.84	0.1	0.38	-0.03	0.1	0.0375	-0.07	-0.4175	0.889844	0.350815	0.900446	1	0.995511	0.692714
Ppplc2	Q3AC44	-0.5	1.13	0.81	0.28	1.96	1.02	1.38	0.58	0.84	0.98	1.09	0.86	0.98	0.98	0.98	0.98	0.98	0.98	0.1825	0.116605	0.483325	0.62031	1	0.995511	0.888625
Ppplc2	G13U57	0.45	0.82	1.24	0.97	1.33	0.55	1.66	0.87	1.32	0.59	1.37	1.16	1.42	2.16	1.39	1.63	0.2325	0.24	0.78	0.438451	0.371388	0.164626	1	0.995511	0.558387
Ppplc2	A7Y9E8	0.08	0.61	0.28	0.25	0.67	0.23	0.43	0.15	0.66	0.62	0.57	0.73	0.91	0.82	0.61	0.42	0.065	0.34	0.385	0.740475	0.087659	0.097271	1	0.995511	0.698156
Ppplc2	Q13UT07	0.85	0.75	0.91	0.94	0.69	0.8	0.59	0.73	0.05	1.32	0.8	0.79	-0.26	0.3	0.9	0.82	-1.16	-0.1225	-0.4225	0.287167	0.685865	0.186828	1	0.995511	0.759484
Ppplc2	Q8R9R8	0.58	0.51	0.66	0.5	-0.12	0.23	1.03	0.09	0.62	0.43	0.26	0.44	0.11	0.18	0.485	-0.32	0.795513	0.618966	0.115	0.08	0.14	0.14	1	0.995511	0.787447
Ppplc2	Q9R078	-0.54	0.01	0	-0.36	-0.05	0.23	0.58	-0.2	-0.45	-1.57	-0.07	-0.34	-1.1	-0.51	-0.23	0.18	0.2475	-0.385	-0.1925	0.329799	0.289065	0.540077	1	0.995511	0.912122
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-0.51	2.87	3.15	0.19	-0.44	2.74	2.75	0.71	-0.545	-0.635	0.122469	0.561798	0.461173	1	0.995511	0.887902
Ppplc2	Q6PAM0	2.62	2.01	2.44	0.71	3.04	2.44	2.7	2.44	0.09	-															

Pume3	P61290	-3.73	-4.08	-3.17	-3.26	-3.36	-4.26	-3.22	-3.78	-4.41	-1.66	-3.32	-3.31	-3.93	-3.95	-3.82	-3.47	-0.095	0.385	-0.2325	0.7605	0.496265	0.392793	1	0.965511	0.865775	
Pume3p1	C91W1E2	-1.56	-1.51	-1.79	-1.89	-1.55	-1.54	-2.02	-2.23	-1.86	-0.86	-1.78	-1.34	-1.84	-0.92	-2.34	-2.42	-0.1475	0.2275	-0.1925	0.506625	0.40101	0.58891	1	0.965511	0.929131	
Pume4	C55SW2	-0.48	-0.45	0.4	0.77	-0.56	-0.61	0.39	0.82	0.55	0.73	0.7	0.21	-0.59	0.78	0.23	0.27	-0.1668	0.065	-0.2275	0.1	0.878288	0.95057	1	0.965511	0.929142	
Pume1	C8RH8L	-0.06	-0.16	-0.39	0.18	-0.37	-0.1	-0.74	-0.52	0.04	-0.36	-0.58	-0.13	-0.27	0.14	-0.54	-0.96	-0.325	-0.15	-0.3	0.144629	0.49777	0.300312	1	0.965511	0.830611	
Pumg1	C9K2J3	-1.3	-1.5	0.55	0.73	-1.61	-1.63	0.73	0.71	-1.14	0.58	0.19	-0.41	-1.27	-1.01	0.33	0.75	-0.07	-0.065	0.08	0.931022	0.925707	0.908924	1	0.965511	0.986458	
Pumg2	C9S14T3	-1.42	-1.53	-1.28	-0.91	-1.3	-1.35	-1.13	-1.23	-1.66	-0.57	-1.54	-1.37	-1.3	-0.88	-1.21	-1.37	0.0325	3.73E-16	0.095	0.860541	1	0.670874	1	1	0.952558	
Pumg3	C9ZCJ1	-0.37	-0.36	0.32	0.13	-0.34	-0.4	0.6	0.37	0.6	-0.13	0.64	0.11	0.6	-0.44	0.8	0.35	0.2775	-0.16	0.0675	0.345328	0.67821	0.883514	1	0.965511	0.979767	
Puph1	C8RR3E6	-1.7	-4.06	-3.92	-3.6	-3.39	-3.28	-3.12	-3.68	-3.95	-2.19	-3.09	-3.54	-3.14	-2.85	-2.33	-3.28	-0.0475	0.1275	-0.42	0.926645	0.83443	0.447131	1	0.965511	0.884817	
Puph	C9SLJ3	0.31	0.3	-0.16	0.15	-0.01	0.76	-0.27	0.09	-0.1	0.33	-0.24	-0.64	-0.49	-0.17	-0.62	-0.66	-0.0075	-0.3785	-0.635	0.765558	0.871401	0.014481	1	0.965511	0.589387	
Purc1	A2AEF3	0.23	0	0.09	0	-0.257	-0.79	-2.46	-1.04	-1.18	-1.12	-0.37	1.89	-2.6	-2.02	-0.64	-1.7	-0.885	-0.8275	0.040029	0.05481	0.36998	1	0.965511	0.859245		
Purc1	A0A94B8	0.08	0.27	-0.07	-0.13	-0.29	0.15	-0.36	-0.3	-0.13	-0.08	-0.35	0.43	-0.29	-0.4	-0.07	-0.1625	0.0275	-0.345	0.971605	0.350137	0.14789	0.764606	1	0.965511	0.764606	
Purc1	A0A94B8	0.08	-0.88	-1.07	-1.06	-0.88	-0.14	-1.33	-0.97	0.16	-1.79	-0.4	0.75	0.01	-0.29	-0.47	0.87	-0.1625	0.0275	0.34	0.629504	0.83238	0.321128	1	0.965511	0.839316	
Pbtp2	C9J2J1	-1.44	-2.7	-2.21	-2.49	-2.47	-1.94	-1.94	-2.35	-1.82	-1.86	-1.94	-2.51	-3.1	-2.32	-1.75	-2.09	0.035	0.1775	0.3425	0.908477	0.582006	0.34137	1	0.965511	0.848431	
Pbtp2	A0A0GZJ7	-0.48	-2.71	-0.3	-0.31	-5.02	-0.63	0.26	-0.64	-1.15	-0.81	-1.34	-0.58	-1.13	-1.87	-1.19	2.63	-0.5125	0.385	0.01	0.669997	0.582257	0.148801	1	0.965511	0.883611	
Pbtp3	C8L174	-0.56	-2.14	-0.53	-0.79	-2.24	-0.81	-0.6	-0.26	-0.71	-0.15	-0.47	0.63	-1.73	-0.33	-0.58	0.0525	0.2625	0.5325	0.920677	0.551123	0.139934	1	0.965511	0.856735		
Pcd1	C8Z1E4	0.76	0.44	-0.02	0.18	-0.45	0.55	-0.23	-0.07	0.62	-0.07	0	0.87	0.2	-0.74	-0.15	-0.06	-0.075	-0.3225	0.808965	0.959771	0.158008	1	0.965511	0.856645		
Pcd2	C8RRK3	-0.56	-0.21	0.22	0.08	-0.25	-0.3	0.25	0.45	-0.37	0.69	0.39	0.34	0.3	0.41	-0.26	0.29	0.055	0.21	0.3025	0.557388	0.153953	0.26111	1	0.965511	0.814142	
Pcd3	L14C51	0.2	0.25	0.49	0.42	0.03	0.27	0.29	0.59	0.12	0.19	0.37	-0.3	-0.22	-0.13	0.77	0.42	-0.045	-0.245	-0.02	0.802046	0.250057	0.93339	1	0.965511	0.898767	
Pcd3	C9PH42	-2.06	-1.35	-0.53	-0.64	-0.69	-1.64	0.37	0.8	-2.27	0.2	0.31	-1.4	-2.42	-1.78	0.94	1.01	0.535	-0.12	0.2625	0.46592	0.868844	0.784088	1	0.965511	0.967642	
Pcd3	C9Z1X2	-0.22	-0.33	-0.59	-0.68	-0.26	-0.16	0.02	-0.61	1.1	-1.05	-0.4	-2.59	-0.73	-0.75	-0.27	-0.37	0.415	-0.1775	0.1175	0.145623	0.465095	0.010186	1	0.965511	0.934978	
Pten	C0S8E6	0.13	-0.23	-0.29	0.32	-0.47	0	-0.73	0.15	-0.14	0.38	-0.48	-0.03	-0.54	-0.4	-0.98	-0.78	-0.245	-0.05	-0.6575	0.358464	0.842744	0.019873	1	0.965511	0.615793	
Pter	A2AUR3	-0.42	-0.65	-0.23	-0.11	-0.45	-0.48	-0.62	-0.08	-0.44	0.72	-0.04	-0.15	-0.47	0.13	-0.34	-0.74	-0.045	1.625	-0.0025	0.782177	0.242878	0.992023	1	0.965511	0.996154	
Pgds	C09114	-4.44	-5.37	-4.93	-5.1	-4.81	-5.23	-5.13	-5.39	-5.83	-2.2	-4.65	4.64	-5.07	-3.75	-5.37	-5.62	-0.18	0.63	0.0075	0.448883	0.389434	0.986283	1	0.965511	0.996154	
Pgds2	C8BRV4D	0.08	0.29	-0.42	-0.15	-0.23	0.16	-0.34	-0.47	0.45	-0.84	-0.2	0.02	-0.26	-0.01	-0.7	-0.67	-0.17	-0.0925	-0.23	0.45849	0.767035	0.446619	1	0.965511	0.864817	
Pgds	C8RR07	-2.07	-2.51	-2.66	-2.58	-1.42	-2.36	-1.8	-2.84	-2.95	-1.8	-2.46	-2.4	-3.17	-2.06	-2.52	-1.84	0.375	-0.1975	-0.2175	0.267183	0.286571	0.465531	1	0.965511	0.888369	
Pgflm	C9WV91	0.64	0.99	1.23	1.03	1.05	0.65	0.97	0.85	0.64	1.22	1.33	1.01	0.89	0.79	1.13	1.26	-0.0925	0.0775	0.045	0.627499	0.734905	0.835502	1	0.965511	0.975524	
Pgflm	C8RRK0	-0.57	0.6	-1.06	0.33	0.16	0.55	-0.2	-0.52	-0.67	1.24	-1.18	-0.58	-0.78	-0.32	-1.82	-1.07	0.1725	-0.7425	-0.8225	0.683982	0.093513	0.106744	1	0.965511	0.703417	
Pgr1	C91YRG	-0.89	0.71	0.64	0.66	0.66	0.07	1.52	0.53	0.71	0.11	0.12	0.24	0.18	-0.26	-0.05	0.93	1.05	0.415	-0.0625	0.1375	0.377355	0.869881	0.754228	1	0.965511	0.966799
Pgr2	C8QD01	0.35	0.05	-0.15	-0.34	-0.09	0.26	-0.07	0.24	-0.07	0.18	0.24	0.18	0.3	0.54	-0.8	0.24	0.1725	-0.2475	0.1925	0.472291	0.418465	0.68136	1	0.965511	0.907794	
Pgr3	C8RRK4	0.31	0.26	0.35	0.76	0.31	0.3	0.53	0.75	0.09	0.61	0.3	0.06	0.06	0.59	-0.07	0.25	0.0525	-0.135	-0.2125	0.788282	0.477866	0.356469	1	0.965511	0.858475	
Pgr3	P23437	-0.51	-1.02	-0.51	0.76	-0.65	0.03	0.18	0.73	-0.44	0.95	0.74	-0.29	0.01	-0.31	-0.99	0.96	0.1375	0.305	0.4775	0.77042	0.553748	0.351771	1	0.965511	0.854088	
Pgr2	C9S769	-2.6	-1.31	-0.64	0.3	-0.05	-2.53	0.45	0.55	-1.35	-0.35	-0.53	-1.75	-1.79	-1.01	0.32	0.21	0.6675	0.0675	0.495	0.441655	0.915222	0.496603	1	0.965511	0.897918	
Pk1	A0A5F8MP	-0.41	-0.35	0.39	0.18	-0.45	0.55	-0.23	-0.05	0.13	0.23	0.2	-0.74	-0.15	-0.04	-0.05	-0.075	-0.3225	0.803238	0.771257	0.1495	0.748169	0.984298	1	0.965511	0.967642	
Pk2b	C9QV9P	-0.26	-0.15	-0.44	-0.39	-0.24	-0.23	-0.36	-0.39	-0.61	-0.33	-0.5	-0.35	-0.63	-0.25	-0.65	-0.59	0.005	-0.1375	-0.22	0.973568	0.428816	0.267721	1	0.965511	0.819502	
Pk7	C8RRK3	0.26	0.41	0.85	0.7	0.41	0.14	0.33	0.64	0.77	0.38	0.62	0.6	0.79	0.66	-0.2325	0.0835	0.1125	0.237521	0.629131	0.584654	1	0.965511	0.927334			
Pma	P23530	-4.57	-5.01	-2.95	-3.44	-5.04	-5.45	-4.26	-3.88	-4.85	-0.51	-3.38	-3.94	-3.11	-3.22	-3.22	-3.78	-0.665	0.8225	0.66	0.246689	0.39572	0.186302	1	0.965511	0.778843	
Pms	C9D017	-2.86	-4.23	-0.53	-0.44	-1.56	-2.14	-5.02	-0.64	-1.77	-0.15	-0.24	-2.59	-0.73	-0.55	-0.17	-1.15	-0.325	0.156353	0.190086	0.25017	0.52129	0.935938	1	0.965511	0.984298	
Pm1	P63089	2.81	-0.4	-1.38	-1.77	-1.49	-4.53	-0.69	-1.85	0.22	-0.76	-1.56	-2.77	-1.14	-0.64	-0.41	-0.65	1.055	0.3225	0.045	0.504061	0.739891	0.964277	1	0.965511	0.93927	
Ptov1	C91VU8	-1.37	-2.35	-1.26	-1.72	-2.61	-1.95	-1.62	-0.97	-1.38	-1.04	-1.4	-1.88	0.3	-3.02	-0.77	-1.69	-0.1125	0.25	0.38	0.777184	0.421198	0.578374	1	0.965511	0.927198	
Ptp4d1	C8R379	0.82	0.71	1.42	1.27	-0.01	0.75	0.24	1.1	1.25	1.07	1.29	0.91	1.17	1.07	0.28	-0.05	-0.535	0.075	-0.4375	0.103037	0.74126	0.224482	1	0.965511	0.787447	
Ptp4d2	P70274	-0.14	-0.37	-0.14	-0.33	0.45	-0.43	-0.48	-0.41	-0.33	-0.59	-0.06	-0.12	-0.55	-0.35	-0.54	-0.0375	-0.1125	-0.155	0.883679	0.586637	0.449005	1	0.965511	0.890107		
Ptp4d3	C9D658	-0.16	0.44	-0.14	-0.35	0.04	-0.69	-0.48	-0.54	-0.48	-0.17	-0.16	-0.17	-0.16	-0.17	-0.16	0.175	-0.46	0.175	0.6375	0.552365	0.732029	0.910139	1	0.965511	0.928427	
Ptpa	C85839	0.09	0.14	0.65	0.37	-0.03	0.09	0.38	0.6	-0.45	-0.58	0.44	0.06	-0.38	-0.47	0.37	-0.06	-0.445	-0.22	0.784538	0.397687	0.439674	1	0.965511	0.883419		
Ptpcd1	C8RRK6	0.68	1.06	-0.01	0.28	0.29	0.01	0.02	0	1.15	1.2	0.43	1.05	0.58	0.63	0.92	0.52	-0.4225	0.045	0.16	0.124264	0.155257	0.661795	1	0.965511	0.919998	
Ptpm1	C8GGT5	0.04	0.51	-0.51	-0.89	0.04	0.11	0.12	-0.79	0.76	-1.01	-0.15	-0.29	0.54	1.15	-0.07	-0.18	0.2325	0.135	0.0975	0.939614	0.722727	0.867299	1	0.965511	0.978457	
Ptpm1	P31821	0.08	0.17	0.09	0.17	0.09	0.33	0.23	0.06	0.13	0.23	0.2	0.34	0.08	0.24	0.19	0.2375	-0.2225	0.1375	0.341314	0.378743	0.109213	0.780469	1	0.965511	0.927734	
Ptpm11	P33235-1	1.19	0.31	1.01	0.4	0.12	1.17	1.26	0.88	-0.2	0.32	0.93	0.7	-0.47	-0.3	0.71	0.65	0.13	-0.29	-0.58	0.694392	0.388075					



Rab13	C90D03	2.16	1.49	1.11	-0.9	1.32	2.55	1.43	0.46	-0.43	-3.09	0.54	2.15	1.25	-2.96	0.55	1.18	0.475	-1.1725	-0.96	0.50983	0.321892	0.38083	1	0.99551	0.860984	
Rab14	C91V41	-0.34	-0.07	-0.39	-0.23	0.33	-0.25	0.06	-0.23	-0.25	-0.81	-0.21	-0.08	-0.31	-0.32	-0.36	-0.21	0.235	-0.08	-0.0425	0.24123	0.71204	0.80941	1	0.99511	0.972098	
Rab15	C91W62	-0.27	0.41	0.48	0.34	0.83	0.34	0.72	0.4	0.65	0.04	0.64	0.01	0.53	1.31	0.25	0.57	0.3325	0.085	0.425	0.172429	0.752548	0.17862	1	0.99511	0.771481	
Rab18	P33293	0.19	0.32	1.03	0.76	0.32	0.18	0.87	0.88	0.13	3.36	0.79	0	0.61	0.33	1.03	0.74	-0.0125	0.495	0.025	0.963234	0.52046	0.70378	1	0.99511	0.956947	
Rab1A	Q55W88	0.83	0.88	0.77	0.57	0.89	0.83	0.76	0.56	0.45	0.02	0.8	0.86	0.4	0.35	0.34	0.6	-0.0025	-0.23	-0.34	0.785751	0.341001	0.887329	1	0.99511	0.691619	
Rab1A	P62821	0.19	0.67	0.97	0.35	1.27	0.22	0.94	0.59	0.25	1.11	0.86	0.45	-0.45	1.44	0.33	0.88	0.21	-0.1225	0.005	0.470015	0.6572	0.990476	1	0.99511	0.996154	
Rab1b	C90161	-0.16	0.61	0.48	0.72	0.59	0.39	0.82	0.47	0.54	0.21	0.22	0.78	0.59	1.78	-0.14	0.64	0.46	0.45	0.085	0.748063	0.677656	0.428162	1	0.99511	0.973757	
Rab21	P33282	-0.09	-0.85	-0.45	-0.91	-0.62	0.78	-0.21	-0.57	-0.75	-1.63	-0.54	-0.26	2.06	-1.19	-0.3	-0.41	0.42	0.155	0.615	0.263186	0.752055	0.365136	1	0.99511	0.858475	
Rab22a	P33285	-0.39	-0.19	-0.01	-0.01	-0.03	-0.4	-0.1	-0.01	0.12	0.06	-0.14	-0.23	0.69	0.63	-0.2	0.06	0.025	0.0975	0.44	0.889432	0.601921	0.122624	1	0.99511	0.721448	
Rab23	C90449	1.34	1.36	1.12	1.43	1.63	1.24	1.24	1.47	1.14	1.54	1.11	1.36	0.78	1.69	1.07	1.09	0.1225	-0.025	-0.155	0.457174	0.891743	0.524898	1	0.99511	0.908707	
Rab24	P33290	-0.37	-0.41	-0.45	-0.26	0.23	-0.04	0.64	-0.21	-0.25	0.2	-0.41	-0.25	0.2	0.1	0.25	0.45	0.507693	0.903232	0.45	0.507693	0.903232	0.45	1	0.99511	0.658454	
Rab25	C904M8	0.97	1.03	0.53	0.47	1.38	0.63	0.75	0.59	-0.18	0.13	0.7	1.03	-0.08	0.25	2.06	1.09	0.0875	-0.375	0.08	0.724424	0.285266	0.884728	1	0.99511	0.975786	
Rab27a	C9ER12	1	1.22	-0.57	0.27	1.18	0.38	-0.38	-0.16	-0.35	1.16	-0.73	0.6	0.16	0.3	0.21	0.47	-0.225	-0.31	-0.195	0.649582	0.574152	0.624967	1	0.99511	0.939167	
Rab27b	C99P58	0.2	0.89	0.68	1.01	0.7	0.43	0.77	0.97	0.48	0.17	0.61	-0.08	0	0.27	0.28	0.32	0.0225	-0.4	-0.4775	0.922004	0.146224	0.068046	1	0.99511	0.664936	
Rab28	C99A77	-0.61	-0.65	-0.98	-0.83	-0.29	-0.83	-0.81	-1.13	-0.12	0.45	-0.66	-0.38	0.2	0.46	-0.56	-1.51	0.0025	0.59	0.415	0.998909	0.051955	0.348676	1	0.99511	0.851134	
Rab29	E9CL07	0.07	0.58	0.17	0.59	0.39	0.82	0.47	0.54	0.21	0.22	0.78	0.59	1.78	-0.14	0.64	0.46	0.45	0.085	0.748063	0.677656	0.428162	1	0.99511	0.973757		
Rab29	P33994	-0.02	0.38	2.18	1.36	0.87	0.28	2.55	2.52	-0.83	0.1	2.19	0.32	-0.26	-0.79	2.25	2.95	0.58	0.33	0.0625	0.406959	0.474245	0.94672	1	0.99511	0.992376	
Rab2b	P59279	0.14	0.55	-0.62	-0.87	0.53	1.44	-0.49	-0.27	0.25	-1.65	-0.47	1.03	1.08	-0.06	-0.44	-0.12	0.5025	-0.01	0.09	0.334205	0.986753	0.797727	1	0.99285	0.969727	
Rab30	C92359	0.57	0.93	1.21	1.13	0.83	0.24	0.58	0.95	0.48	2.08	1.13	0.45	0.8	1.41	1.22	1.2	-0.31	0.075	0.1975	0.202864	0.847797	0.408565	1	0.99511	0.874356	
Rab31	C37W44	-0.5	-0.2	0.78	0.37	0.15	-0.6	0.43	0.48	-0.32	1.39	0.68	-0.14	-0.06	1.34	1.08	1.03	0.0025	0.29	0.315	0.994947	0.521165	0.481844	1	0.99511	0.893925	
Rab33a	P97590	-0.28	0.17	0.63	0.37	0.16	-0.06	0.99	0.5	-0.05	-0.72	0.59	-0.14	0.11	0.07	0.33	0.54	0.175	-0.3025	0.04	0.559762	0.368814	0.874354	1	0.99511	0.979626	
Rab33b	C35963	1.04	1.13	1.02	0.66	1.48	1.6	1.04	0.93	-0.07	-0.49	0.9	1.44	0.43	1.1	1.26	0.94	0.3	-0.5175	-0.03	0.192663	0.247745	0.902161	1	0.99511	0.984447	
Rab34	C9P020	0.1	0.62	-0.23	-0.8	0.42	-0.06	-0.27	-0.73	0.23	-0.05	-0.22	-0.09	-0.02	0.55	-0.31	-0.13	-0.0825	0.405	0.1	0.821013	0.886078	0.774673	1	0.99511	0.966468	
Rab35	C9P9N9	1.4	0.86	1.91	1.87	1.17	1.41	1.5	1.91	0.68	1.76	1.85	1.27	0.77	1.7	1.67	1.89	-0.125	-0.12	-0.2525	0.965611	0.736437	0.513256	1	0.99511	0.904284	
Rab36	C98CM5	-0.11	-0.14	0.43	0.41	-0.53	0.14	0.82	0.12	1.51	0.34	0.22	0.23	-0.22	0.22	0.19	-0.01	0.4275	0.4625	0.974414	0.235513	0.392425	1	0.99511	0.865775		
Rab37	C98Q00	0.35	0.91	0.73	0.72	0.78	0.56	-0.27	0.33	1.13	1	0.62	0.64	1.97	1.42	1.61	0.52	-0.3275	0.17	0.4525	0.233819	0.436531	0.229714	1	0.99511	0.787447	
Rab38	C54AE8	-0.01	0.55	0.28	-0.43	-2.31	-1.34	-1.31	-0.35	3.26	1.63	0.02	-0.36	0.5	0.5	-1.4	0.33	-0.675	0.99	-0.205	0.041781	0.551996	0.85453	1	0.99511	0.976225	
Rab39b	C98H1C	0.25	0.54	0.99	1.22	0.77	0.26	0.93	1.15	0.74	1.14	0.93	0.5	0.79	1.06	0.94	1.25	0.0275	0.0775	0.26	0.924247	0.776725	0.341147	1	0.99511	0.848473	
Rab3a	P62011	0.07	0.77	0.64	0.57	1.02	0.77	0.74	0.56	-0.52	0.67	0.31	-0.47	1.18	0.01	0.29	0.22	-0.015	-0.18	-0.7575	0.254048	0.139104	0.967304	1	0.99511	0.920438	
Rab3b	C92C78	1.62	1.77	1.28	1.38	-0.33	0.48	-0.44	-0.42	1.36	1.31	1.24	1.81	0.36	-1.5	-0.33	-0.56	-1.69	-0.225	-2.02	0.000129	0.69861	0.000615	0.253326	1	0.99511	0.294873
Rab3c	P62823	1.25	1.03	0.98	0.67	1.33	1.95	1.69	1.13	0.41	-0.88	1.2	1.51	0.13	0.21	1.06	1.15	0.5425	-0.4225	-0.345	0.044327	0.414566	0.785994	1	0.99511	0.822084	
Rab3c	P53276	0.52	0.81	1.18	0.86	1.47	0.82	1.26	1.03	0.54	-0.61	0.95	0.43	-0.19	0.91	1.61	1.1	0.3025	-0.515	0.015	0.191213	0.167803	0.96929	1	0.99511	0.992767	
Rab3ap1	C9BU17	1.19	0.95	0.17	0.57	0.99	0.79	0.79	0.41	0.18	-0.77	0.6	1.21	0.06	1.84	0.34	0.24	0.305	-0.168	0.3025	0.937618	0.640751	0.492047	1	0.99511	0.967149	
Rab3ap1	A0A10SRU	-0.01	-0.26	0.57	0.58	0.02	0.08	0.9	0.74	-0.31	-0.81	0.57	0.13	-0.34	0.16	0.72	0.79	0.21	0.075	0.1075	0.495864	0.816603	0.751313	1	0.99511	0.961479	
Rab3ap2	A0A00AYU	0.73	0.17	-0.06	-0.26	0.35	0.71	0.73	-0.13	0.18	-0.25	0	0.55	-0.23	0.53	0	0.16	0.27	-0.025	-0.3	0.369421	0.929608	0.916227	1	0.99511	0.986556	
Rab3b1	C31Z86	0.15	-0.06	-0.66	-0.42	0.66	0.59	-0.32	0.26	0.02	-0.25	-0.29	-0.29	-0.84	0.49	-0.05	0.07	0.545	0.045	0.13	0.088359	0.844012	0.695448	1	0.99511	0.955729	
Rab3b	C98EF0	-0.71	-0.35	0.96	-0.41	-0.71	-0.1	-0.77	0.9	-0.42	-1.35	-0.11	-0.54	-0.34	-1.84	-0.6	-1.03	0.0025	0.29	0.315	0.994947	0.521165	0.481844	1	0.99511	0.893925	
Rab40c	E9XP04	-3.23	-3.64	0.51	1.37	-0.38	-3.22	0.43	1.68	-1.34	-0.26	0.97	-2.31	-2.22	-1.82	0.91	0.7	0.875	-0.0025	0.64	0.559268	0.998615	0.87569	1	1	0.942004	
Rab43	C98C50	0.35	0.74	0.81	0.92	0.58	1.16	0.54	1.3	0.43	0.61	1.29	0.91	2.06	-0.96	1.04	1.45	0.19	0.105	0.1925	0.446769	0.674685	0.75242	1	0.99511	0.961479	
Rab4a	P56371	1.37	0.44	-0.02	0.06	1.06	1.59	0.56	0.3	-0.15	-0.25	0.39	0.8	1.13	-0.57	0.13	-0.25	0.415	-0.205	-0.6025	0.318258	0.498931	0.118387	1	0.99511	0.721448	
Rab4b	C92K16	-1.52	-1.45	-0.18	-0.1	-0.8	-1.29	-0.48	-0.23	-0.27	-0.79	-0.06	-1.48	-2	-2.47	-0.32	0.21	0.3525	-0.2875	-0.3325	0.488913	0.996484	0.629378	1	0.99511	0.940703	
Rab4b	C9C001	0.15	0.45	0.02	0.53	0.09	0.3	0.79	0.79	-0.77	-1.58	0.77	0.62	0.11	0.35	0.77	0.62	0.185	0.524668	0.188	0.524668	0.188	0.524668	1	0.99511	0.93974	
Rab5b	P61021	-0.09	0.13	0.48	0.26	0.28	0.06	0.33	0.33	-0.12	-0.5	0.23	-0.02	0.01	-0.06	-0.33	0.1	0.055	-0.2975	-0.265	0.769699	0.211893	0.272422	1	0.99511	0.787447	
Rab5c	C93C78	0.23	0.55	0.54	0.64	0.27	0.34	0.71	0.76	0.56	-0.37	0.72	0.41	0.26	0.11	-0.25	0.48	0.03	-0.16	-0.34	0.875608	0.580137	0.156798	1	0.99511	0.751493	
Rab5b	P53279	1.12	1.49	-1.01	-1.27	1.44	1.77	-0.21	1.03	1.83	-0.15	-1.2	1.93	1.62	2.73	-0.62	-0.5	0.41	0.52	0.725	0.642365	0.584333	0.463558	1	0.99511	0.888267	
Rab5b	P53279-2	1.12	1.49	-1.01	-1.27	1.44	1.77	-0.21	1.03	1.83	-0.15	-1.2	1.93	1.62	2.73	-0.62	-0.5	0.41	0.52	0.725	0.642365	0.584333	0.463558	1	0.99511	0.888267	
Rab5a	P53279-2	1.04	2	0.22	0.01	1.54	0.96	0.79	0.43	0.93	-0.69	0.54	1.49	-0.38	1.34	0.23	0.48	0.1125	-0.25	-0.4	0.811406	0.674973	0.46072				

Rbm14	Q8C2Q3	0.03	-2.78	-1.8	-1.23	-2.85	-1.14	-2.1	-1.09	-1.81	-1.1	-1.13	-2.29	-0.58	-1.2	-0.67	-1.82	-0.35	-0.1375	0.3775	0.596621	0.818515	0.532621	1	0.99551	0.911904
Rbm15	Q9VBL2	0.59	-1.11	-0.96	-0.77	-0.53	-0.09	-0.46	-0.07	-0.06	-0.74	-0.97	-0.66	0.7	-0.31	0.37	-0.42	0.275	-0.405	0.6475	0.483886	0.913489	0.173691	1	0.99551	0.764376
Rbm15b	Q6PH25	-0.1	0.09	-0.1	0.09	-0.1	0.07	-0.1	0.17	0.38	0.04	-0.04	-0.04	0.54	-0.51	0.64	0.35	0.115	-0.0525	0.1425	0.645917	0.837185	0.689466	1	0.99551	0.957279
Rbm17	Q8XZ4	-0.84	-1.72	-0.94	-1.17	-1.69	-1.31	-0.83	-0.82	-1.66	-0.47	-1.08	-1.43	-1.14	-1.03	-0.14	-0.74	0.0005	0.405	0.986146	0.981539	0.211264	1	0.99551	0.786269	
Rbm20	Q8R3C6	-0.36	-0.89	-0.5	-0.76	-1.17	-0.16	-0.93	-1.37	-0.55	-2.58	-0.08	-0.84	0.9	-0.54	0.61	-0.08	-0.28	-0.11	0.67	0.348947	0.861016	0.135033	1	0.99551	0.731223
Rbm22	Q8RH53	0.61	-0.65	-0.69	-0.65	-1.6	0.01	-1.44	-0.3	-0.15	-0.31	-0.78	-0.9	0.99	0.03	0.05	-1.33	-0.4875	-0.19	0.265	0.320818	0.978676	0.62014	1	0.99551	0.93807
Rbm25	B2RY56	-0.59	-2	-2.36	-1.9	-1.42	-1.23	-1.89	-1.1	-1.55	-2.48	-2.25	-1.6	-0.94	-0.64	-2.33	-1.65	0.0525	0.9575	0.731587	0.520284	0.1518422	1	0.99551	0.750422	
Rbm26	E9Q640	-1.77	-3.86	-3.38	-3.43	-3.41	-2.64	-3.39	-3.37	-2.78	-2.3	-2.83	-2.59	-2.91	-1.96	-3.86	-3.84	-0.0925	-0.485	-0.0325	0.840999	0.294786	0.95613	1	0.99551	0.992636
Rbm27	Q55FM8	0.13	-1.43	-2.11	-2.11	-1.41	-0.56	-1.52	-2	-1.59	-0.92	-1.78	-0.06	-1.44	-2.27	-1.86	-1.47	0.0075	0.2925	-0.38	0.989229	0.628893	0.473877	1	0.99551	0.891644
Rbm28	Q8CGC6	0.97	0.5	0.68	0.68	0.16	0.31	0.03	0.28	0.48	1.06	0.47	0.05	1	0.77	0.58	0.32	0.5125	-0.1925	-0.04	0.0139	0.452211	0.857609	1	0.99551	0.976235
Rbm31	Q8D806	-0.51	-0.27	-0.61	-2.26	-2.27	-0.55	-2.27	-0.78	-0.37	-1.78	-0.37	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	0.26	0.707504	0.793336	0.203236	1	0.99551	0.791279
Rbm34	A0A1D5RU	0.88	0.99	0.88	0.84	0.15	0.86	0.47	0.61	0.71	0.71	0.83	0.71	0.48	0.32	0.54	0.32	0.2775	-0.1885	-0.51	0.068843	0.245362	0.015241	1	0.99551	0.858387
Rbm39	Q8YH51-2	0.1	-1.16	-0.58	-1	-1.03	0.01	-0.62	-0.58	-0.94	-0.83	-0.74	-0.89	-0.2	-0.15	-0.71	-0.39	0.105	-0.19	0.2975	0.758848	0.521364	0.359314	1	0.99551	0.856645
Rbm42	D3YYW8	-0.47	-1.63	-1.19	-1.2	-1.54	-1.39	-1.38	-0.64	-2.18	-1.58	-1.39	-2.06	-1.06	-1.11	0.01	-1.25	-0.115	-0.68	0.27	0.711268	0.523309	0.471833	1	0.99551	0.891144
Rbm45	Q8RH45	-0.49	-2.46	-0.72	-0.56	-1.81	-2.01	-1.4	-1.08	-1.92	-0.87	-0.24	-1.24	-0.05	-0.9	0.89	-1.8	-0.1275	-0.21	1.0475	0.722065	0.741866	0.100701	1	0.99551	0.698616
Rbm4b	Q8VE32	-1.7	-0.9	-0.49	1.12	-0.96	-1.02	1.23	-0.09	0.17	-0.58	0.1	-1.59	-0.05	1.2	-1.4	0.05	0.2825	0.1175	0.4425	0.694671	0.848957	0.544071	1	0.99551	0.912122
Rbm5	Q51YET-2	-0.66	-0.65	-1.37	-1.61	-0.73	-1.43	-1.22	-1.21	-1.33	-0.6	-1.66	-1.44	-0.4	-0.55	-0.24	-0.33	-0.075	-0.185	0.8125	0.794715	0.582321	0.02625	1	0.99551	0.633075
Rbm6	S4R1W5	1.25	-0.42	-0.6	-0.7	0.23	-0.43	-0.34	0.83	0.14	-0.48	0.18	1.77	-0.51	1.2	-0.22	-0.1975	0.215	0.6775	0.672308	0.686642	0.314558	1	0.99551	0.836924	
Rbm7	Q9CQT2	-0.17	-2.6	-1.29	-1.45	-3.75	-0.6	-2.16	-1.41	0.08	-1.27	-1.4	-2.45	1.1	-3.44	-1.23	-1.97	-0.6025	0.1175	-0.0075	0.433045	0.857705	0.939476	1	0.99551	0.997248
Rbm8a	Q9CW33	1.18	-0.34	-1.14	-0.5	0.45	-0.38	-0.24	-1.64	-1.08	-0.2	-0.51	-0.4	-1.48	0.15	-0.34	-0.005	-0.695	-0.365	0.09184	0.217225	0.511155	1	0.99551	0.902369	
Rbm8c	G3UJZ9	-1.41	-2.01	-3.34	-2.37	-1.28	-1.13	-1.52	-1.79	-1.65	-1.14	-2.6	-1.27	0.01	-1.01	-1.08	-2.15	0.6025	0.6175	1.225	0.257125	0.226076	0.505051	1	0.99551	0.658454
Rbm9	Q9WV02	1.72	-1.06	0.33	0.23	-1.13	1.03	-0.33	0.65	0.28	-1.34	-0.01	-0.02	1.34	-1.3	0.48	-0.4	-0.475	-0.8025	-0.5	0.423975	0.141466	0.442357	1	0.99551	0.883549
Rbm9a	Q8R0F5	-0.99	-1.05	-0.07	-1.14	-0.7	-1.24	-0.39	-0.43	0.32	-2	-0.65	-1.49	1.06	2.27	1.11	0.32	0.1225	-0.1925	2.0025	0.695568	0.727789	0.001619	1	0.99551	0.419079
Rbm1	Q0915	-0.54	-0.55	-0.15	-0.09	-0.69	-0.42	0.7	0.25	-1.82	-0.99	-0.42	-0.66	-1.99	-1.2	-0.42	-0.01	0.3025	-0.54	-0.6725	0.289992	0.155761	0.104141	1	0.99551	0.702079
Rbm2	Q8Y56	0.5	0.6	0.03	0.21	0.31	0.47	0.07	0.03	0.65	0.22	0.14	0.58	0.76	0.57	-0.06	-0.15	-0.1125	0.0625	0.0555	0.569163	0.776735	0.845121	1	0.99551	0.976225
Rbm1	P6278	0.56	-0.54	-0.21	1.39	-0.51	0.29	-0.76	1.08	1.1	2.17	0.62	0.77	0.45	0.61	0.26	-0.28	-0.275	0.865	-0.04	0.618952	0.120226	0.285556	1	0.99551	0.88946
Rbm1	A3VGL6	0.11	-0.46	-0.54	-0.8	-0.8	-0.1	-0.65	-0.87	0.39	-0.35	-0.63	0.31	0.58	0.07	-0.41	-0.82	-0.1235	0.3225	0.2775	0.653486	0.282469	0.44195	1	0.99551	0.883549
Rbm2	A2VAP4	-1.52	-1.37	-3.43	-3.43	-2.03	-1.87	-2.85	-2.73	-0.79	-0.55	-3.41	-1.01	-0.66	-0.61	-2.06	-1.01	0.0675	0.9975	0.8525	0.506711	0.229498	0.267256	1	0.99551	0.818895
Rbm1	Q9H56	-0.62	0.1	0.01	0.07	-0.72	0.06	-0.2	0.04	0.2	0.1	-0.25	0.05	0.68	-0.15	0.64	-0.12	0.1	0.1275	0.650605	0.674862	0.77023	1	0.99551	0.93308	
Rbm2	A0A28VX0	-3.38	-4.65	-0.46	-1	-4.07	-3.5	-1.15	0.85	-4.31	-0.17	0.46	-3.05	-4.1	-2.58	0.21	0.1	0.525	0.15	0.325	0.752631	0.920653	0.822642	1	0.99551	0.972768
Rbm3	Q9JXK0	-0.47	0.12	-1.17	-0.34	-0.45	-0.13	-0.4	-0.97	-0.13	0.52	-0.48	0.18	-0.42	-0.23	-0.14	-1.28	0.2025	0.4875	-0.0525	0.595164	0.174062	0.886032	1	0.99551	0.979767
Rbm1	A0A14002	0.86	0.64	0.69	0.22	0.88	0.63	0.68	0.8	0.25	-0.95	0.71	1.2	-0.37	0.3	-0.12	0.145	-0.3	-0.395	0.447341	0.751707	0.253776	1	0.99551	0.812003	
Rbm2	E9J3B1	-0.39	-0.2	-0.69	-1.2	-0.96	-0.2	-1.17	-0.36	-0.5	0.13	-0.2	-0.13	-0.26	-0.16	0.3	0.15	0.12037	0.305474	0.12	0.2275	0.146989	1	0.99551	0.890289	
Rbm3	Q8VE37	0.77	-0.86	-0.62	-0.11	-0.8	-0.05	-1.09	-0.13	-0.61	0.08	-0.1	-0.78	-0.59	-0.77	-0.49	-0.39	-0.1325	-0.1475	-0.35	0.458402	0.710949	0.34251	1	0.99551	0.848473
Rbm2	Q8R867	-4.72	-5.86	-3.71	-4.66	-5.5	-5.35	-3.75	-4.62	-4.53	-3.92	-3.67	-4.77	-4.16	-4.08	-3.62	-4.37	-0.1125	0.47	0.635	0.829497	0.310977	0.151266	1	0.99551	0.749304
Rbm1	G3UJW08	-2.11	-2.18	-1.69	-1.79	-1.89	-1.46	-1.98	-2.03	-1.26	-0.13	-1.44	-1.45	-1.15	-1.8	-1.49	-1.23	0.1025	0.8725	0.85	0.621747	0.07733	0.072454	1	0.99551	0.668066
Rbm1	Q9JUT0	-0.06	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	-0.09	-0.2	1	0.99551	0.947827
Rbm1	Q05186	0.45	0.01	-0.15	-0.1	0.35	0.12	0.88	0.4	-0.59	-0.87	0.14	1.04	-0.36	-0.38	1.58	1.04	0.395	-0.1225	0.1475	0.112713	0.727163	0.997683	1	0.99551	0.867334
Rbm2	Q8R9P2	1.1	1.27	1.31	0.41	1.44	1.13	1.98	1.14	-1.07	-0.48	1.09	1.43	-0.17	-0.38	2.56	2.33	0.4	-0.78	0.0625	0.190921	0.206604	0.932387	1	0.99551	0.989713
Rbm1	A0A140T8	-0.77	-1.28	-0.81	-1.09	-0.78	-1.31	-0.22	-1.14	-1.18	-1.18	-0.72	-0.79	-1.28	-0.69	-1.06	-0.98	0.0575	0.02	-0.015	0.848882	0.925341	0.945973	1	0.99551	0.992376
Rbm1	Q3UJZ1-2	-1.15	-1.87	-1.16	-1.6	-2.54	-1.37	-2.19	-2.16	0.3	-0.64	-1.49	-1.78	0.23	-1.01	-2.31	-2.12	-0.9775	0.5425	0.6525	0.404741	0.265593	0.40853	1	0.99551	0.874536
Rbm1	Q9R184	1.11	1.12	1.11	1.12	1.34	1.44	0.92	0.01	0.92	0.01	0.92	0.01	0.92	0.01	0.92	0.01	0.92	0.01	0.92	0.01	0.92	0.01	1	0.99551	0.848759
Rbm1	Q8CEE7	0.5	0.67	0.37	0.57	0.13	0.49	-0.09	-0.27	0.41	0.76	0.39	0.51	0.57	-0.35	-0.21	-0.3725	-0.01	-0.5275	0.088612	0.574067	0.557766	1	0.99551	0.661738	
Rbm1	Q8R616	0.85	0.82	0.36	0.4	1	0.99	0.08	0.26	0.75	0.83	0.43	0.84	1.14	0.75	0.41	0.16	0.025	0.105	0.0075	0.928321	0.659676	0.978091	1	0.99551	0.993727
Rbm4	P20403	0.53	0.44	0.18	-0.14	0.59	0.4	-0.36	-0.29	0.53	-0.45	-0.11	0.52	0.6	-0.28	0.35	-0.1	-0.1675	-0.13	-0.1625	0.506711	0.615925	0.785848	1	0.99551	0.927198
Rbm5	Q8VD5	13.24	16.26	16.27	13.05	16.2	16.27	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	16.25	1	0.99551	0.938755
Reep1	Q8R6H4	0.5	0.28	0.83	0.92	0.47	0.35	0.8	1.07	0.91	1.2	0.87	0.52	1.03	0.92	1.17	1.16	-0.035	0.2425	0.4375	0.897089	0.314928	0.067411	1	0.99551	0.664936
Reep2	Q8VCD6	0.83	0.63	0.34	0.42	0.53																				

Rnaser2b	A0A338P71	1.08	0.93	0.41	1.72	0.45	1.04	2.2	1.43	0.96	-0.63	1.27	1.13	0.59	0.17	0.15	1.18	0.245	-0.3525	-0.5125	0.569108	0.472702	1.076432	1	0.99551	0.771503	
Rn2	Q9CYM5	-0.06	0.42	0.27	0.08	0.08	-0.26	0.23	-0.08	0.09	-0.33	0.06	0.33	0.03	0.23	0.43	0.45	-0.185	-0.14	0.1075	0.134243	0.517193	0.604332	1	0.99511	0.932118	
Rn3	E9J8D7	-1.42	-0.71	-2.52	-1.33	-0.89	-1.84	-0.03	-2.07	-2.15	-3.33	-1.58	-2.49	-1.75	-0.65	-0.67	-0.51	0.4225	-0.6825	0.735	0.4572	0.167026	0.151119	1	0.99511	0.731223	
Rn10	F7AN16	-1.42	-1.54	-0.92	-1.47	-3.36	-0.45	-2.84	-1.62	-2.86	-1.29	-0.97	-1.23	-1.54	-7.16	0.51	-2.01	-0.73	-0.73	-2.125	0.249184	0.56321	0.414013	1	0.99511	0.874945	
Rn11	Q9YK7	-0.1	0.5	0.1	0.37	1.14	0.69	0.18	-0.02	0.67	-0.73	-0.13	0.2	0.2	0.2	0.1	-0.73	-0.32	0.28	0.15	-0.18	0.352828	0.571459	0.642245	1	0.99511	0.94365
Rn12	Q9C6Y5-2	1.34	0.87	-0.45	-0.21	0.78	1.32	-0.11	-0.31	0.44	-1.25	-0.19	1.54	0.46	0.56	-0.06	0.4	0.0325	-0.2525	-0.0475	0.959812	0.703063	0.911605	1	0.99511	0.986458	
Rn113a2	Q14801	-3.48	-0.71	-4.21	-2.06	-1.39	-4.45	-4.32	-4.3	1.38	0.8	1.45	2.08	1.89	1.33	1.43	1.73	2.38	0.355	-0.2475	-0.085	0.213995	0.501148	0.802243	1	0.99511	0.971901
Rn114	Q9ET26	-0.17	-1.42	-0.93	-0.17	-1.3	-0.41	-0.89	-0.63	-0.83	-0.03	-0.98	-0.23	-0.12	-0.83	-0.54	-0.6	-0.135	0.155	0.15	0.699155	0.677541	0.665132	1	0.99511	0.949645	
Rn115	Q9O0C1	0	0.96	3.43	2.9	0.62	0.1	1.09	1.71	1.88	3.63	1.94	1.14	3.45	1.15	0.6	2.15	-0.9425	0.325	0.015	0.253028	0.709266	0.986916	1	0.99511	0.996154	
Rn121	Q8R129	-1.45	-1.17	-2.14	-1.56	-0.63	-1.28	-0.69	-1.59	-1.18	-2.21	-1.18	-1.44	-0.49	-0.94	-1.43	0.665	0.21	0.7625	0.039762	0.482191	0.018629	1	0.99511	0.602211		
Rn123	Q5CP13	-0.97	0.08	0.05	-0.41	-0.64	-0.73	-0.77	-0.65	-0.36	-0.87	-0.15	0.22	0.4	0.49	-0.28	0.07	-0.385	-0.0625	-0.0525	0.849096	0.803696	0.915	1	0.99511	0.978205	
Rn126	Q5Y1L2	-0.97	0.08	0.05	-0.41	-0.64	-0.73	-0.77	-0.65	-0.36	-0.87	-0.15	0.22	0.4	0.49	-0.28	0.07	-0.385	-0.0625	-0.0525	0.849096	0.803696	0.915	1	0.99511	0.978205	
Rn13	Q8C4F9	-1.61	-1.97	-0.97	-1.07	-1.94	-1.19	-0.51	-0.76	-2.36	-0.52	-1.17	-2.25	-1.83	-2.07	-0.77	0.305	-0.3025	0.0575	0.422564	0.510162	0.887428	1	0.99511	0.980365		
Rn130	Q5SVR5	1.8	0.61	-1.99	-0.37	0.93	1.38	0.17	-3.09	0.47	-1.8	-1.63	1.64	-0.36	0.84	-2.68	-2.33	0.51	-0.8025	-0.47	0.707096	0.951168	0.707283	1	0.99511	0.957157	
Rn14	Q5990	-2.7	-2.66	-0.52	-0.49	-2.28	-2.45	-0.89	-0.86	-2.22	0.01	-0.61	-2.33	-2.35	-1.83	-1.18	-0.89	-0.0275	0.305	-0.28	0.986818	0.695571	0.697594	1	0.99511	0.955729	
Rn141	H3B8A4	2.11	1.75	2.21	1.14	2.4	2.21	2.16	1.86	0.8	1.45	2.08	1.89	1.33	1.43	1.73	2.38	0.355	-0.2475	-0.085	0.213995	0.501148	0.802243	1	0.99511	0.971901	
Rn146	Q5C9W6	1.37	1.16	1.13	-0.58	1.58	0.99	0.9	0.54	-0.39	0.88	1.15	1.36	0.2	-0.17	2.02	1.45	0.2325	-0.02	0.105	0.620022	0.971107	0.866662	1	0.99511	0.975892	
Rn149	Q3UZC5	0.16	-0.43	1.7	1.6	-0.7	-0.49	0.58	1.1	0.24	0.75	1.28	0.27	0.86	-0.81	1.22	1.08	-0.635	-0.1225	-0.117	0.321524	0.8203	0.792776	1	0.99511	0.96933	
Rn150	Q5O7Z6	3.3	1.37	0.37	0.66	2.1	3.01	0.02	0.25	0.58	1.27	0.5	2.78	0.92	0.98	1.42	0.055	-0.08	-0.1425	-0.5825	0.927596	0.852252	0.384784	1	0.99511	0.861128	
Rn157	A2A400	-0.46	0.2	-0.01	0.86	-0.52	-0.84	0	0.48	0.25	-2.07	-0.48	0.43	-0.31	2.3	-1.25	1.96	0.07	-0.005	-1.0275	0.090125	0.989251	0.208496	1	0.99511	0.786218	
Rn168	EP9PW4	-3.93	-7.26	0.69	-0.04	-5.67	-3.22	-0.43	-0.18	-2.63	-0.05	1.85	-4.3	1.95	-4	2.54	0.88	0.26	1.3525	2.9775	0.897005	0.513416	0.180407	1	0.99511	0.775542	
Rn170	A0A180B8	0.3	0.14	0.29	0.13	-0.36	0.66	-0.13	-0.14	0.33	1.2	0.1	-0.68	1.43	-0.82	0.51	0.31	-0.2075	0.0225	0.1425	0.405363	0.952275	0.746797	1	0.99511	0.960533	
Rn181	Q9CY62	-1.06	-1.68	-14.27	-12.88	-0.86	-0.96	-12.29	-11.07	-0.99	-18.46	-13.02	-0.62	-2.28	-1.24	-1.33	-13.87	1.1775	-0.8	0.3	0.778276	0.874232	0.94712	1	0.99511	0.993276	
Rn185	Q3Y1T2	-1.05	-0.5	-1.06	-1.56	-1.14	-0.21	-2.06	-2.23	0.61	-1.86	-1.76	0.85	1.39	-0.65	0.52	-0.8	-0.335	0.1025	1.1825	0.482757	0.854509	0.040429	1	0.99511	0.658454	
Rn2	Q9CQJ4	-0.02	0.49	-0.5	-0.1	-0.5	-0.56	-0.39	0.15	-1.23	-0.35	-0.16	-0.76	0.66	1	-0.12	-0.17	-0.3875	-0.5925	0.375	0.149598	0.870306	0.302042	1	0.99511	0.830681	
Rn20	Q5D7M8	-1.69	-1.18	-2.23	-2.04	-1.75	-1.85	-1.51	-1.92	-2.2	-0.31	-1.93	-1.47	-1.96	-1.56	-2.16	-2.18	0.1825	-0.4625	-0.025	0.348993	0.280977	0.91401	1	0.99511	0.980458	
Rn213	A0A84APC	-0.53	-1.16	0.29	0.68	-1.28	-1.15	0.21	0.33	0.44	0.55	0.3	-0.86	0.12	-0.61	0.5	0.52925	-0.2875	0.3125	0.595053	0.561515	0.503918	1	0.99511	0.901022		
Rn214	Q8BFU3	-0.46	-0.46	-0.5	-0.46	-0.33	-0.51	-0.59	-0.56	-0.83	-0.5	-0.45	-0.34	-0.32	-0.87	-0.57	-0.75	-0.0275	-0.06	-0.1575	0.848096	0.734218	0.24723	1	0.99511	0.878965	
Rn214	Q8BFU3-2	-0.77	-0.85	-0.35	-0.28	-0.49	-1.14	-0.57	-0.6	-2.14	1.05	-0.43	-0.38	-3.15	0.9	0.4	0.205	-0.045	0.155	0.165	0.516382	0.939531	0.8733	1	0.99511	0.97575	
Rn216	PS5B23-2	-1.52	-1.87	-1.1	-0.98	-2.11	-2.73	-1.8	-1.65	-0.45	-0.36	-0.22	-1.59	-0.56	-0.39	-1.02	-1.05	-0.58	-0.2625	-0.0825	0.040614	0.551022	0.05457	1	0.99511	0.661738	
Rn220	Q20AL6	-2.61	-2.99	-2.82	-0.45	-3.23	-2.36	-4.5	-3.18	-2.07	-1.34	-2.99	-1.75	-2.06	-1.6	-4.57	-4.89	-0.2	1.08	-0.1625	0.69219	0.073004	0.841798	1	0.99511	0.976225	
Rn25	Q9Z446	-0.29	-0.15	0.57	-0.48	0.02	0.68	-0.82	-0.7	-0.36	-0.11	-0.66	-0.38	-0.39	0.08	-0.96	0.98	-0.175	-0.005	-0.19	0.458455	0.978871	0.151232	1	0.99511	0.905674	
Rn26	A0A115Q9	0.41	1.75	2.21	1.14	2.4	2.21	2.16	1.86	0.8	1.45	2.08	1.89	1.33	1.43	1.73	2.38	0.355	-0.2475	-0.085	0.213995	0.501148	0.802243	1	0.99511	0.971901	
Rn31	Q9Z4T7-2	0.01	0.14	0.16	0.24	0.26	0.14	0.32	0.05	0.22	0.58	-0.08	0.15	0.63	0.55	0.12	0.19	0.055	0.08	0.235	0.716519	0.685518	0.262373	1	0.99511	0.81524	
Rn34	Q9X9K6	-0.49	-1.47	-0.41	-0.27	-1.31	-0.13	-0.66	-0.35	-0.62	-0.78	-0.96	-0.01	-0.51	-1	-0.78	-0.78	0.0475	0.4575	-0.1075	0.894768	0.316953	0.723927	1	0.99511	0.958398	
Rn40	Q3U319	0.03	-1.68	-2.67	-2.58	-1.8	-1.26	-2.89	-2.87	-0.79	-0.85	-2.47	-0.09	-0.88	-1.26	-2.76	-2.76	-0.48	0.675	-0.19	0.484448	0.369933	0.792734	1	0.99511	0.96933	
Rn41	Q8BV75	-0.46	0.2	-0.01	0.86	-0.52	-0.84	0	0.48	0.25	-2.07	-0.48	0.43	-0.31	2.3	-1.25	1.96	0.07	-0.005	-1.0275	0.090125	0.989251	0.208496	1	0.99511	0.786218	
Rn5	O3S445	-1.5	-3.32	0.42	1.74	-3.74	-0.49	1.46	2.63	0.84	2.98	0.93	1.24	2.38	-1.59	2.73	1.95	0.38	1.2925	1.7825	0.798875	0.270955	0.165772	1	0.99511	0.758837	
Rn7	Q9W721	-2.79	-4.28	-1.81	-2.03	-3.4	-2.72	-1.92	-1.43	-4.39	-1.11	-1.45	-3.04	-2.24	-2.94	-1.92	-2.27	0.36	0.23	0.385	0.579149	0.786891	0.491664	1	0.99511	0.897531	
Rn72	Q3U6F4	-0.57	-1.74	-2.73	-2.71	-1.03	-1.03	-1.6	-2.81	-1.24	-2.08	-2.44	-1.03	-0.96	-0.89	-1.81	-2.08	0.32	0.24	0.5025	0.598458	0.67137	0.370407	1	0.99511	0.859245	
Rn7t	Q9CCL1	-0.19	-3.88	-2.75	-3.86	-0.05	-4.03	-4.4	-4.27	-3.88	-2.86	-3.51	-3.41	-2.89	-3.28	-3.86	-3.46	-0.59	0.1825	0.225	0.07045	0.603133	0.520345	1	0.99511	0.907667	
Rn13	Q3Y1T7	-0.1	-0.33	-0.14	-0.54	0.02	-0.55	-0.02	-0.71	-0.56	-0.81	-0.38	-0.39	-1.13	-1.29	-1.04	0.7425	-0.125	-0.245	0.740145	0.678484	0.488253	0.247358	1	0.99511	0.927438	
Rn208	R8C48	-3.73	-3.34	-4.28	-4.73	-3.63	-4.32	-3.9	-4.27	-3.88	-2.55	-3.84	-3.51	-4.22	-3.64	-2.29	-4.86	0.24	0.7	0.0175	0.383055	0.181094	0.575343	1	0.99511	0.962936	
Rnpep	Q8VCT3	-0.53	-0.56	-0.47	-0.26	-0.56	-0.54	-0.76	-0.25	-0.39	0.42	-0.29	-0.39	-0.79	-0.35	-0.53	-0.78	-0.0275	-0.2925	-0.1575	0.678769	0.236336	0.431237	1	0.99511	0.879165	
Rn199	Q9NM28	1.32	0.74	0.01	0.14	1.22	0.4	0.35	0.44	-0.6	-0.37	0.45	1.04	-0.4	0.77	-0.19	-0.1575	-0.2725	-0.475	0.708838	0.167688	0.577437	1	0.99511	0.927198		
Rn20	O8B846	-0.02	-0.15	-0.03	-0.38	-0.14	-0.14	-0.2	-0.59	-0.78	-1.65	-1.11	-0.43	-0.40	-0.25	-0.14	0.025	-0.045	0.22	0.808707	0.126022	0.754953	1	0.99511	0.961233		
Robo1	G5E843	-1.1	0.04	0.8	1.15	0.91	1.22	1.17	1.34	1.56	1.38	0.96	1.32	1.47	0.69	1.37	0.99	0.1375									

Rpusd4	Q9CWX4	0	0.37	0.29	0.94	-0.02	0.01	-0.16	0.77	0.53	0.81	0.49	-0.04	0.22	0.49	1.03	0.11	-0.25	0.0475	0.0625	0.396673	0.864231	0.833999	1	0.995511	0.975371
Rrag	Q8QX05	-0.26	-0.91	-1.27	-0.94	-2	0.66	-1.56	-0.81	0.67	-1.36	1.63	-0.22	-0.36	-1.56	-2.74	-0.8825	1.13	0.375	0.884387	0.888803	0.519789	1	0.995511	0.907667	
Rragb	Q8NT44	-1.98	-0.29	-1.83	-1.77	-2.07	-1.59	-1.57	-2.15	-1.91	-1.84	-1.9	1.81	-1.32	-1.86	-2.39	-2.21	-0.2775	0.0525	-0.0325	0.883648	0.74922	0.904802	1	0.995511	0.985525
Rragc	Q8YK70	-1.15	-0.73	0.06	0.05	-0.44	-0.83	-0.24	0.19	-0.89	-0.04	0.05	-0.86	-0.74	-0.65	-0.52	-0.33	0.0175	0.0075	-0.0175	0.959689	0.984212	0.713801	1	0.998892	0.958106
Rragd	BLIAW72	-1.32	-0.46	-1.34	-2.07	-1.44	-1.65	-2.22	-2.69	-1.89	-1.57	-1.84	-1.57	-0.77	-2.46	-2.41	-2	-0.6675	-0.475	-0.5775	0.14921	0.856138	0.235617	1	0.995511	0.791493
Rras	P10B33	0.36	1.04	0.9	0.93	1.41	0.54	1.39	0.85	0.6	0.19	0.72	0.47	-0.13	-0.81	0.44	0.87	0.24	-0.6125	-0.175	0.382302	0.085991	0.089587	1	0.995511	0.699217
Rra2	P6D771	1.24	1.43	1.5	1.18	1.7	1.23	1.5	1.23	0.87	0.62	1.65	1.48	0.7	0.64	1.55	1.59	-0.28	0.15	0.165	0.18811	0.578068	0.509252	1	0.995511	0.884817
Rrbp1	AZAV17	-0.2	-0.3	-0.35	-0.37	0.12	0.03	0.31	-0.21	0.92	0.18	-0.21	1.15	2.32	0.19	2.21	0.9	0.3675	0.565	1.71	0.053926	0.05246	0.006378	1	0.995511	0.552614
Rrbp1	P07742	-1.85	-1.29	-0.03	-0.41	-1.27	-1.25	-0.86	-0.12	-1.57	0.04	-0.25	-1.27	-0.28	-0.17	-0.95	-1.42	0.02	0.1325	-0.26	0.965154	0.801159	0.628429	1	0.995511	0.940342
Rrm2b	Q8PEE3	-0.02	0.05	-0.79	-0.73	-0.45	-0.11	-0.67	-0.84	-0.7	-1.12	-1.08	-0.17	-0.5	-0.7	-1.45	-1.45	-0.1575	-0.395	-0.6525	0.575655	0.232492	0.797995	1	0.995511	0.681213
Rrm2b	P5E183-2	-1.33	-0.29	-1.83	-1.27	-0.67	-0.57	-2.35	-2.47	-2.21	-2.47	-2.21	-2.47	-2.21	-2.47	-2.21	-2.47	-0.2775	0.0525	-0.0325	0.145763	0.691318	0.712446	1	0.995511	0.958014
Rrp1	Q8P860	0.6	0.69	1.13	0.75	0.33	0.62	0.55	0.78	0.4	0.8	0.73	0.53	0.77	-0.16	1.16	1.05	-0.2225	-0.1795	-0.0875	0.527865	0.383126	0.756877	1	0.995511	0.968677
Rrp15	Q9CYK7	0.2	0.78	-0.5	-0.71	0.13	0.31	-0.03	-0.8	0.25	-1.27	-0.55	0.89	-0.19	-0.17	-0.77	-0.44	-0.1125	-0.1025	-0.19385	0.833962	0.802558	1	0.995511	0.971091	
Rrp15	Q91WM3	0.53	0.2	1.37	1.17	0.68	0.24	0.68	0.83	0.54	1.19	1.17	1.02	1.02	0.67	1.38	1.42	-0.21	-0.1225	0.305	0.488954	0.757523	0.365117	1	0.995511	0.858475
Rrp15	Q8YV16	0.8	0.69	0.24	0.5	0.59	-0.14	0.12	-0.02	0.25	0.09	0.57	-0.05	-0.24	0.99	0.62	0.59	-0.42	-0.3425	-0.0675	0.087762	0.144319	0.822223	1	0.995511	0.972768
Rr1	EP9WV9	0.74	0.51	0.35	0.45	0.7	0.33	0.48	0.04	0.96	0.71	0.27	0.9	0.98	1.16	0.29	0.5	-0.28	0.15	0.165	0.18811	0.578068	0.509252	1	0.995511	0.902804
Rr1d1	Q8BYV0	-0.27	-0.3	3.22	1.81	-0.66	-0.36	-2.45	1.88	0.82	1.25	2.33	-0.81	1.67	-0.93	2.29	2.6	-0.2875	-0.2175	0.2925	0.782828	0.822454	0.780025	1	0.995511	0.95676
Rr2d4d1	EP9P85	1.55	1.79	0.01	-0.89	1.15	1.53	-0.22	0.73	-2.92	-1.21	1.61	0.93	1.2	-0.92	0.39	-0.1775	-1.0625	-0.215	0.813772	0.336642	0.765146	1	0.995511	0.964134	
Rrp1	Q8BYR6	0.14	0.42	0.31	0.23	0.7	0.11	0.45	0.16	0.72	0.41	0.51	-0.07	0.43	0.7	0.05	0.43	0.0775	1.188-01	0.1275	0.684277	0.590574	0.542264	1	0.995511	0.912212
Rrc1	Q3TG11	-0.07	-0.47	-0.86	-1.29	-0.23	-1.13	-0.02	-0.85	-0.45	-1.09	-1.23	-0.52	-0.18	0.14	-0.49	-1.85	0.205	-0.15	0.0775	0.616285	0.647893	0.871146	1	0.995511	0.979729
Rrc1	S4R24	-2.14	-2.96	-2.57	-2.37	-2.74	-2.29	-2.62	-2.75	-2.3	-117	-2.52	-2.53	-0.99	-2.14	-0.43	-0.09	0.38	1.445	0.691078	0.305597	0.016259	1	0.995511	0.589387	
Rrc1	Q90031	0.16	0.13	0.6	0.6	0.28	0.4	0.62	0.81	0.02	0.26	0.72	0.4	-0.19	0.51	0.53	0.58	0.22	0.0425	0.05	0.356897	0.866619	0.857018	1	0.995511	0.976225
Rrc1	Q90713	-1.34	-1.45	-1.51	-1.42	-1.55	-1.57	-1.09	-1.49	-0.76	-0.69	-1.29	-1.34	0.1	-0.8	-1.39	-1.41	0.005	0.41	0.555	0.976604	0.083759	0.142334	1	0.995511	0.740431
Rrcb	Q9JF14	-1.6	-1.79	-1.5	-1.87	-1.2	-1.69	-1.26	-1.58	-2.31	-1.99	-1.52	-1.22	-0.98	-1.99	-1.45	-1.54	0.2575	-0.07	-0.05	0.152655	0.796944	0.818905	1	0.995511	0.972768
Rrc1	AZAJQ19	-2.04	-2.48	-1.78	-1.46	-3.23	-2.82	-2.77	-2.54	-1.86	-0.48	-1.73	1.88	-2.34	-1.78	-3.01	2.89	0.3	0.4525	-0.565	0.007985	0.255936	0.135356	1	0.995511	0.731223
Rrkn	A01ADSRU	0.56	-1.29	-0.63	-0.32	-1.12	-1.06	-0.48	-0.44	0.59	-0.3	-0.23	-0.92	-0.77	-0.27	-0.74	-0.16	-0.355	0.205	0.32	0.387105	0.659444	0.499711	1	0.995511	0.90025
Rrkn	Q8C682-2	0.31	0.18	0.92	1.1	0.38	-0.02	0.8	0.9	0.11	1.26	1.04	0.31	0.57	0.06	0.99	1.41	-0.1125	0.025	0.13	0.71325	0.880932	0.719652	1	0.995511	0.958398
Rr1	QZ2N41	0.55	-0.22	0.72	0.02	-2.84	-0.94	-1.92	-0.68	1.09	0.26	0.54	0.08	2.51	-1.06	-0.43	-0.72	-1.3175	-0.05	-0.1025	0.108712	0.897137	0.802309	1	0.995511	0.971991
Rr1b	Q901P0	-1.68	-0.17	-0.19	-2.14	-1.18	1.97	-1.77	-1.52	-1.6	-1.6	-1.77	-1.52	-1.6	-1.77	-1.52	-1.6	-0.0425	-0.8877	0.14025	0.88777	0.360516	0.886313	1	0.995511	0.979767
Rr1	Q8K700	1.39	1.24	0.51	0.5	0.87	0.78	0.46	0.44	0.59	0.57	0.26	1.24	0.37	1	0.57	0.45	-0.2725	-0.245	-0.3125	0.332225	0.444665	0.988801	1	0.995511	0.828257
Rr1	Q7W6M1	-0.88	-0.65	-0.81	-0.44	-0.26	-0.42	-0.12	-0.72	-0.81	-1.18	-0.52	-0.84	-0.4	-0.96	-0.46	-0.76	0.315	-0.1425	0.05	0.13598	0.502782	0.817741	1	0.995511	0.972768
Rr1	T07622	0.79	0.68	0.75	0.74	1.23	0.49	0.9	1.14	1.09	1.66	1.32	0.89	1	1.9	1.55	1.41	0.2	0.5	0.725	0.331561	0.088916	0.011496	1	0.995511	0.566767
Rr1	Q8E597-2	0.81	0.51	0.35	0.45	0.21	0.33	0.48	0.04	0.95	0.71	0.27	0.9	0.98	1.16	0.29	0.5	-0.22	0.080731	0.660541	0.190212	0.02	1	0.995511	0.884817	
Rr1	Q8E597-3	-7.51	-8.18	-4.94	-4.83	-6.49	-5.93	-3.12	-5.04	-7.61	-7	-5.19	-7.89	-7.02	-6.97	-4.46	-4.03	1.22	-0.5575	0.745	0.251644	0.561528	0.485313	1	0.995511	0.894829
Rr1	Q9P772-1	-0.93	-0.66	0.06	-0.26	-0.64	-0.93	0.67	-0.27	-3.27	-4.88	0.56	-0.96	-4.19	-5.15	-1.62	0.61	-0.21	-2.3975	0.161145	0.146517	0.038124	1	0.995511	0.658454	
Rr1	Q9P772	0.35	0.7	0.65	0.59	0.76	-0.07	1.07	0.57	-0.07	0.12	0.6	0.45	-0.09	0.86	0.67	0.59	0.01	-0.2975	-0.065	0.969438	0.155879	0.797624	1	0.995511	0.969727
Rr1d4d1	A0A0R405	0.99	1.09	0.94	1.36	0.58	1.33	1.27	0.83	-0.73	0.75	0.78	0.45	0.12	0.49	0.19	0.25	0.465	0.291714	0.139943	0.064989	0.02	1	0.995511	0.961423	
Rr1d	Q9P98	0.08	0.19	0.31	0.41	0.48	0.46	0.52	0.51	0.24	0.42	0.88	0.41	0.14	0.89	-0.36	0.01	0.245	0.42	-0.0775	0.128304	0.285001	0.798829	1	0.995511	0.968677
Rr1d4d1	Q8K055	0.93	0.71	-0.01	-0.33	1.07	1.44	0.39	-0.04	-0.69	-1.06	0.57	0.76	-0.95	-0.31	-0.67	-0.11	0.395	-0.425	-0.83	0.359792	0.409648	0.039757	1	0.995511	0.658454
Rr1d4d1	AZAT56	-0.11	-0.32	0.41	0.25	0.16	0.45	0.37	0.59	0.04	0.3	0.61	0.16	0.15	-0.19	0.37	0.28	0.335	0.22	0.095	0.145434	0.363772	0.697686	1	0.995511	0.955729
Rr1d4d1	Q8C3E8	-0.36	-1.16	-1.36	-2.04	-0.95	-0.23	-1.07	-1.57	-1.42	-0.83	-1.22	-0.05	-0.84	-1.31	-1.42	-1.4	0.385	0.46	0.0975	0.378644	0.311591	0.793805	1	0.995511	0.965867
Rr1	QZ1781	-1.40	-0.57	-1.48	-0.57	-1.23	-1.27	-1.09	-1.67	-1.74	-1.06	-0.49	-1.86	-0.58	-0.24	-0.44	-0.28	-0.0325	-0.34932	-0.259439	0.98	0.972	0.108	1	0.995511	0.979767
Rr1	Q8J8U7	-0.84	-1.76	-1.49	-1.85	-1.36	-0.74	-1.24	-1.61	-1.12	-1.08	-1.19	-1.05	-0.65	-1.74	-1.64	-1.46	-0.2475	0.375	0.1125	0.406976	0.163033	0.739752	1	0.995511	0.958796
Rr1	Q8R4C2	0	-0.13	-0.22	-0.12	-0.48	-0.17	0.53	0.18	0.23	0.3	0.42	0.4	0.5	0.76	0.49	0.63	0.2625	0.34	0.6025	0.230646	0.692523	0.009722	1	0.995511	0.653386
Rr1	QZ124D2	0.71	-0.75	0.72	-0.3	0.65	0.79	-0.14	-0.15	0.44	0.56	-0.09	0.92	-0.08	1.82	-0.06	0.34	0.1925	0.3625	0.41	0.647902	0.382276	0.453625	1	0.995511	0.886245
Rr1	Q90394-3	2.17	2.07	2.02	2.13	2.02	2.13	2.07	2.13	2.02	2.13	2.07	2.13	2.02	2.13	2.07	2.13	0.05	0.177	0.141	0.0425	0.6503	0.16211	1	0.995511	0.979767
Rr1	Q90394-4	-1.08	-0.65	0.64	0.28	-0.15	-0.72	-0.41	0.43	0.66	-0.6	-0.2	0.28	0.12	-0.09	0.21	-0.46	-0.225	0.3735	0.1475	0.570668					

Soc	Q7RY26-2	2.56	1.34	0.16	-0.09	0.33	1.43	0.15	0.07	2.87	-0.74	-0.26	2.99	2.09	2.08	-0.38	0.25	-0.4975	0.2225	0.0175	0.434144	0.831775	0.982356	1	0.99551	0.994858	
Soc	P33020	0.06	0.26	0.11	0.04	0.84	0.35	0.87	0.31	0.2	0.18	0.16	0.62	0.44	0.05	0.58	0.48	0.1725	0.42	0.035867	0.36025	0.359916	1	0.99551	0.658454		
Socw1	Q92D45	-1.07	-1.09	-1.23	-1.11	-0.88	-1.14	-0.75	1.33	-1.08	-1.11	-0.87	0.98	-0.85	-1.26	-1.59	1.36	-0.195	0.1075	-0.145	0.599156	1.50838	0.925295	1	0.99551	0.901002	
Scrg1	Q8H745	-1.5	-1.28	-1.3	-1.46	-0.79	-1.12	-0.42	-1.17	-1.66	-0.53	-1.31	-1.13	-2	-1.01	-0.62	-1.17	0.51	0.2775	0.185	0.336134	0.394972	0.55046	1	0.99551	0.913801	
Scrb	Q8U072	0.39	0.34	1.21	1.26	0.4	0.25	1.16	1.3	0.71	1.43	1.29	0.51	0.48	0.4	1.18	1.2	-0.0225	0.185	0.015	0.948823	0.581525	0.294386	1	0.99551	0.93927	
Scrb1	Q9ZC28	-0.21	-0.55	-0.4	-1.23	-0.94	-0.4	-0.37	-0.25	-0.25	-0.33	-0.51	-0.08	-0.45	-0.31	-0.77	-0.97	-0.1425	0.0055	-0.2775	0.490976	0.76426	0.292936	1	0.99551	0.787447	
Scm2	Q8VC48	-0.48	-0.7	0.29	-1.15	-0.97	-0.57	-0.25	-0.43	-0.27	-0.27	-1.08	-0.7	1.18	-1.78	-0.48	0.51	0.295	0.7	0.1125	0.227605	0.322286	0.165717	1	0.99551	0.964134	
Scm3	Q3JTMH2	0.02	-0.25	-0.38	-0.19	-0.37	-0.29	-0.22	-0.3	-0.34	-0.83	-0.54	-0.21	-0.61	-0.61	-0.94	-0.52	-0.4	-0.225	0.415	0.779661	0.267193	0.048823	1	0.99551	0.658454	
Scn1	Q99M85	-1.61	-1.11	-1.61	-0.41	-1.27	-2.64	-0.84	-1.85	-1.71	-0.92	-1.43	-2.03	1.13	-2.86	-0.77	-0.92	-0.465	-0.3375	0.08	0.315646	0.360288	0.898945	1	0.99551	0.983509	
Scubel1	A24444	-1.36	-2.34	-1.36	-0.79	-2.49	-1.01	-1.55	-1.22	0.02	-1.75	-0.86	-1.28	0.66	-1.99	-1.29	-1.22	-0.105	0.495	0.5025	0.808677	0.302293	0.410368	1	0.99551	0.874811	
Syl1	R4HVU1	-0.48	-1.12	-0.57	-1.11	-0.88	-1.14	-0.75	1.33	-1.08	-1.11	-0.87	0.98	-0.85	-1.26	-1.59	1.36	-0.195	0.1075	-0.145	0.599156	1.50838	0.925295	1	0.99551	0.901002	
Syl2	Q8CFE4	0.83	0.86	0.72	0.49	0.92	0.82	0.6	0.5	0.98	1.14	0.93	1.11	0.09	1.02	0.04	0.61	0.01	0.41	-0.185	0.25293	0.302293	0.410368	1	0.99551	0.874811	
Syl3	Q98070-3	-1.66	-1.07	-1.79	-1.43	-0.76	-0.55	-1.19	-1.7	-0.73	-2.45	-1.4	-0.99	-0.71	-0.77	-2.49	-2.47	0.4375	0.0095	-0.1225	0.167146	0.809201	0.803527	1	0.99551	0.971265	
Sld1s1	A0A09PV2	-0.17	-0.12	0.43	-0.13	-0.77	-1.2	-0.13	-2.68	0.35	-0.02	-0.91	-0.15	0.7	0.93	-0.63	-0.29	-1.1975	-0.185	0.175	0.042983	0.548596	0.656088	1	0.99551	0.948332	
Sld2	P42407	1.76	1.23	0.96	0.9	1.29	1.16	0.61	0.35	0.85	1.78	0.72	1.41	0.57	1.02	1.76	0.89	-0.36	-0.0225	-0.1525	0.243992	0.943306	0.640109	1	0.99551	0.942804	
Sld3	Q45519	-0.48	-1.12	-0.52	0.11	-0.64	-0.8	0.52	0.4	-1.48	-2.29	-1.4	-0.54	-4.46	0.21	1.4	0.85	0.1075	0.6625	0.4675	0.648701	0.023211	0.187948	1	0.99551	0.778843	
Sldc1p	Q35988	0.72	1.27	1.01	1.37	1.13	0.41	1.3	0.7	1.34	1.68	0.95	1.01	1.41	2.09	0.05	0.51	-0.2075	-0.1525	-0.0775	0.431199	0.541542	0.863931	1	0.99551	0.977725	
Sldcbp	Q3JTMX0	-0.24	0.16	-0.29	0.38	0.24	-0.19	0.43	0.77	0.18	0.84	-0.19	0.36	0.1	0.07	-0.38	-0.28	0.31	0.295	-0.125	0.260287	0.380044	0.605972	1	0.99551	0.932425	
Sldd2	Q8K135	-1.2	-1.39	-2.81	-1.37	-1.54	-0.95	-3.15	-2.75	-0.7	-1.25	-2.61	-1.24	0.33	-0.11	-2.87	-0.39	0.045	0.6925	0.7075	0.344641	0.255293	0.44961	1	0.99551	0.884817	
SldF2	A0A09K29	-0.17	-0.12	0.43	-0.13	-0.77	-1.2	-0.13	-2.68	0.35	-0.02	-0.91	-0.15	0.7	0.93	-0.63	-0.29	-1.1975	-0.185	0.175	0.042983	0.548596	0.656088	1	0.99551	0.948332	
SldF1s1	Q9SP1	-0.96	-0.93	-1.77	-1.87	-0.53	-0.73	-1.28	-1.85	-0.98	-2.59	-2	-0.68	1.22	-2.67	-0.25	-1.1	0.285	-0.18	0.6825	0.451171	0.707254	0.385693	1	0.99551	0.861533	
SldF1s2	Q61112	-0.17	-0.73	-1.49	-1.3	-0.74	-0.35	-1.09	-0.9	-0.83	-0.4	-0.88	-0.6	-0.7	-0.52	0.07	-0.74	0.1525	0.245	0.45	0.644006	0.450208	0.219958	1	0.99551	0.787447	
Sldha	Q8H283	0.78	0.42	0.76	1.12	0.2	0.93	0.57	0.92	0.37	0.85	0.81	0.59	0.45	0.16	0.52	0.85	-0.115	-0.115	-0.275	0.634171	0.602034	0.70224	1	0.99551	0.822038	
Sldh1s1	Q3J276	0.16	0	0.48	0.91	-0.45	-0.16	0.22	0.66	0.66	1.04	0.39	0.24	1.9	1.12	0.72	0.41	-0.32	0.195	0.65	0.315439	0.490987	0.10768	1	0.99551	0.706141	
Sldh1s2	A0A094891	0.69	0.88	0.12	0.14	0.22	0.92	-1.06	-0.53	1.16	0	0.17	0.54	1.18	0.91	-0.45	-0.43	-0.57	0.01	-0.155	0.219348	0.975148	0.72993	1	0.99551	0.958635	
Sldh1s3	Q8BQU3	-0.32	0.49	0.24	1.03	0.23	-0.2	-1.93	0.12	0.29	1.52	1.05	-0.48	1.85	0.38	1.23	2.13	-0.805	0.235	1.0375	0.154583	0.630675	0.04458	1	0.99551	0.658454	
Sldh1s4	Q8BTE0	0.58	0.46	0.24	0.19	-0.02	0.47	0.53	-0.31	0.73	0.23	-0.05	0.78	0.6	1.42	0.34	0.58	-0.2	0.055	0.3675	0.410043	0.822667	0.204859	1	0.99551	0.783452	
Sldh1s5	Q9CJ43	1.11	0.75	1.33	1.41	0.33	1.4	1.62	0.3	1.13	1.56	1.06	0.29	-0.36	1.52	1.37	0.13	-0.3875	-0.445	0.708479	0.293865	0.33284	1	0.99551	0.845501		
Sldh1s6	Q9CZ80	-1.15	-2.17	-1.74	-0.4	-1.36	-0.3	2.1	1.2	-4.08	-1.48	-2.29	-1.4	-0.54	-4.46	0.21	1.4	0.85	0.1075	0.6625	0.4675	0.648701	0.023211	0.187948	1	0.99551	0.861533
Sldh1s7	Q9SCV1	-1.38	-3.21	-2.03	-1.65	-2.24	-3.26	-0.31	-1.69	-4.18	-2.82	-0.94	-3.58	-2.63	-3.36	-1.87	-1.86	-0.7975	-0.2075	-0.2425	0.284128	0.791016	0.703649	1	0.99551	0.952558	
Sldh1s8	Q3JH53	0.54	0.69	0.46	-0.28	0.33	0.95	0	-0.1	1.97	1.25	0.58	0.65	2.01	0.96	-0.41	0.34	-0.0575	0.76	0.3725	0.855024	0.096563	0.477176	1	0.99551	0.892234	
Sldk1	Q9V455	0.43	0.84	0.86	0.68	1.19	0.76	0.93	0.7	0.93	0.83	1.03	1	0.59	1.16	0.35	0.49	0.1925	0.245	0.005	0.320738	0.196564	0.200604	1	0.99551	0.927268	
Sldk1s1	Q348H4	1.21	1.21	0.81	0.55	0.54	0.8	1.52	0.8	1.01	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1	0.99551	0.908606	
Sldk1s2	Q8H238	-0.41	-0.14	0.04	0.64	0.16	-0.13	0.02	0.5	-0.5	0.37	0.41	-0.67	-1.14	0.25	-0.07	-0.25	1.05E-01	-0.13	-0.335	0.695102	0.713389	0.370996	1	0.99551	0.859424	
Sldl1	Q3JYVW0	-1.23	-0.89	-0.51	-1.09	-0.38	-0.97	-0.14	-0.66	-0.3	-0.6	-0.97	-1.04	-0.65	0.38	-0.24	-0.23	0.3925	0.2025	0.745	0.142977	0.434246	0.255656	1	0.99551	0.633075	
Sldl1c1	Q3JH53	-0.75	-0.62	0.18	0.54	-0.05	-0.62	0.88	0.39	0.3	0.6	0.1	-0.5	-0.21	-0.03	1.22	0.86	0.3125	0.1375	0.6225	0.462638	0.718889	0.182802	1	0.99551	0.776002	
Sldl1c2	Q9D1M0	-0.11	-1.38	-0.11	0.55	-1.63	-0.7	0.21	0.67	1.13	-0.06	1.1	-0.2	0.17	-0.39	-0.12	-0.06	-0.2075	0.275	-0.2375	0.932141	0.935117	0.380849	1	0.99551	0.924204	
Sldl1c3	A1H5H7	-0.32	-0.25	-0.77	-0.52	-0.26	-0.6	-0.45	-1.01	-0.57	-1.17	-0.78	-0.19	-0.68	0.37	-1.12	-1.03	-0.115	-0.2125	-0.115	0.605040	0.416982	0.675661	1	0.99551	0.952944	
Sldl1c4	Q9J9H8	-0.03	-0.19	0.17	0	-0.14	0.13	-0.05	0.27	-0.42	0.17	-0.22	-0.35	-0.58	-1.05	-0.68	-0.49	-0.065	-0.1925	-0.6875	0.703708	0.349654	0.080255	1	0.99551	0.563386	
Sldl1c5	E90472-2	-1.17	-1.11	-1.45	-1.46	-1	-1.42	-1.33	-1.57	-0.98	-0.94	-1.43	-1.02	-0.87	-0.55	-1.57	-1.62	-0.035	0.2	0.1425	0.854452	0.326402	0.031005	1	0.99551	0.941132	
Sldl2b	Q9B847	-0.49	-0.71	-0.02	-0.02	-0.29	-0.52	0.02	-0.04	-0.46	-0.14	-0.11	-0.62	0.12	-0.57	0.42	0.33	0.1025	-0.0225	0.385	0.666007	0.925433	0.217141	1	0.99551	0.787447	
Sldl2b1	E90151	-0.02	-0.88	-0.49	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	1	0.99551	0.925295	
Sldl2b2	Q9P662	-1.53	-1.86	-1.36	-1.18	-1.3	-1.49	-1.82	-1.41	-1.29	-0.43	-1.54	-1.26	-0.26	-1.59	-1.58	-1.17	-0.2225	0.3525	0.335	0.914892	0.254503	0.346522	1	0.99551	0.851096	
Sldl2b3	Q3J928	-1.66	-1.67	-1.53	-1.48	-1.7	-1.61	-1.45	-1.68	-1.65	-1.04	-1.61	-1.42	-1.25	-1.52	-1.72	-1.58	-0.025	0.155	0.0675	0.867399	0.442168	0.721144	1	0.99551	0.958398	
Sldl2b4	A2A771	-0.7	-0.84	-0.45	-0.48	-0.47	-1.02	-0.37	-0.57	-0.35	-0.09	-0.49	-1.04	-0.62	-0.15	-1.1	-0.54	0.01	0.125	0.015	0.950508	0.613923	0.95207	1	0.99551	0.992476	
Sldl2b5	Q8D200	-0.13	-0.07	-0.18	-0.07	-1.04	-0.27	-0.28	0.28	0.69	0.2	0.52	0.08	0.85	0.91	0.4	0.12	0.1975	0.0875	0.668484	0.151786	0.122807	0.952134	1	0.99551	0.939878	
Sldl2b6	A0A28D9D	-0.11	0.26	0.27	0.73	1.52	-0.45	0.86	0.76	-1.18	1.48	1.07	-0.21	-0.31	0.01												

SfB3a	Q8Q2Y9	1.25	0.42	-1.82	-1.14	-0.6	0.89	-0.85	-1.19	-0.74	-3.66	-1.42	-1.18	-0.82	-1.48	-1.67	-1.64	-0.115	-1.0875	-1.08	0.87943	1.28017	0.131266	1	0.96551	0.726389	
SfB3b	Q923DA	-3.42	-3.17	-3.73	0.95	-3.43	-3.99	-2.43	-3.24	-3.45	-0.88	-3.99	-4.24	-3.24	-3.81	-2.71	-3.72	-0.93	-0.7975	-0.8525	0.738629	0.51361	0.471734	1	0.96551	0.873558	
SfB3c	P57708	-1	-1.46	-0.14	-0.27	-1.59	-1.15	-0.51	-0.16	-1.05	-0.03	-0.13	-1.8	-1.45	-0.48	-0.02	0.32	-1.44	-0.405	-0.225	0.390211	0.450474	0.32803	1	0.96551	0.941132	
SfB	Q70456	-1	-0.98	-0.69	-0.73	-0.69	-1.14	-0.97	-0.5	-1.14	0.1	-0.52	-0.97	-0.62	-0.83	-0.74	-0.43	0.025	-0.7175	-0.245	0.879556	0.469327	0.273849	1	0.96551	0.787447	
SfBq	Q8U6U6	-1.71	-3.89	-2.83	-2.25	-3.35	-2.81	-2.25	-2.39	-2.61	-1.48	-1	-1.9	-3.23	-1.39	-2.73	-0.7	-2.01	-0.03	0.365	0.9625	0.959993	0.518461	0.126826	1	0.96551	0.722414
SfBq	Q8R927	-2.36	-2.21	-6.1	-6.3	-4.82	-1.98	-2.81	-4.46	-3.77	-2.23	-3.3	-5.52	-2.11	-1.89	-1.97	-6.87	-7.31	-0.2225	1.1325	-0.0875	0.885901	0.33925	0.593985	1	0.96551	0.929636
SfBq	Q8CAU3	-1.29	-1.64	0.32	0.13	-1.02	-1.69	0.12	0.67	2.4	-0.26	-1.17	-1.06	-1.75	-0.42	-1.14	-0.8	-0.865	0.13	-0.2025	0.652134	0.741448	0.127158	1	0.96551	0.927768	
SfBwap	Q3U5H5	0.21	0.99	-3	-3.8	-0.03	-1.3	-3.3	-3.74	-1.12	-1.89	-3.34	-1.09	-0.47	0.89	-2.02	-2.02	-1.81	-0.1975	0.345	1.2775	0.861393	0.74304	0.2485	1	0.96551	0.803985
SfB2d2	A0A0A0YC	1.27	0.33	0.38	0.63	-2.06	1.19	0.01	-0.12	0.36	-0.52	0.42	0.83	1.82	-5.34	-0.14	0.21	-0.9475	-0.43	-1.565	0.174096	0.26946	0.280968	1	0.96551	0.822084	
SfBn1	Q9J9R1	-0.01	-0.03	0.52	0.7	-0.23	0.23	0.22	0.39	0.97	0.03	0.51	-0.15	0.83	0.08	-0.08	0.08	-0.1425	0.045	-0.005	0.561516	0.886242	0.484969	1	0.96551	0.976225	
SfBn2	Q9Z5N2	-0.2	-1.65	-0.11	-0.45	-0.65	0.71	0.04	1.11	1.57	0.63	-0.16	0.68	0.77	0.37	0.43	0.29	0.04	-0.025	0.164537	0.550742	0.30895	1	0.96551	0.966154		
SfBn3	Q915V1	0.8	-0.05	0.06	0.71	0.04	1.11	1.57	0.63	-0.16	0.68	0.77	0.37	0.43	0.29	0.04	-0.025	0.164537	0.550742	0.30895	1	0.96551	0.966154				
SfBn4	Q9Z5N1	6.79	4.91	2.32	1.63	5.75	5.73	2.19	2.23	-0.44	1.78	2.51	0.61	-0.25	-0.8	2.1	2.83	0.0625	-1.6975	-2.9425	0.964358	0.316473	0.049497	1	0.96551	0.565854	
SfBn5	Q9Z5N0	1.02	1.36	1.51	1.53	1.13	1.09	1.76	0.97	1.17	1.04	1.57	0.91	0.48	0.79	0.98	1.79	-0.1175	-0.1825	-0.345	0.614729	0.419537	0.286523	1	0.96551	0.824295	
SfBq	P62347	0.67	0.24	0.34	0.87	-0.42	0.86	-0.19	0.63	1.06	1.16	0.73	1.01	2.04	0.98	1.13	0.72	0.31	0.61	0.8875	0.368295	0.042367	0.060516	1	0.96551	0.661738	
SfBq	F6WKE4	0.73	0.17	1.3	1.47	0.92	0.61	0.11	0.27	1.58	0.7	1.14	1.59	0.82	0.81	0.9	-0.865	0.13	-0.02	0.236225	0.645445	0.925253	1	0.96551	0.902476		
SfBq	Q8K5X1	0.86	0.48	0.53	0.46	1.84	0.33	-0.46	0.26	1.28	1.39	0.4	0.9	2.21	2.52	0.49	-0.03	-0.09	0.41	0.215	0.8441	0.14233	0.69507	1	0.96551	0.955729	
SfBq1	Q8V037	2.07	1.33	2.21	2.13	0.91	0.15	1.2	2.27	0.91	2.58	0.32	2.31	1.57	0.9	1.07	0.83	-0.5525	-0.405	-0.8425	0.261251	0.458614	0.014694	1	0.96551	0.589387	
SfBq1	Q8V037-3	1.07	1.15	1.1	1.3	0.17	0.32	0.67	0.56	1.62	1.27	1.11	1.07	1.12	2.05	0.85	0.48	-0.5	0.5625	0.195	0.100707	0.148703	0.63307	1	0.96551	0.941132	
SfBq2	Q9OZ55-2	2.97	2.63	8.05	3.41	3.64	2.93	0.87	0.71	2.42	1.15	8.57	3.2	2.48	2.84	7.55	8.56	1.1375	-0.43	1.0925	0.497575	0.815905	0.546535	1	0.96551	0.912406	
SfBq1	Q8R0X7	0.81	-0.05	0.8	0.4	0.92	0.83	0.99	0.74	0	0.92	0.69	1	0.29	0.74	1.31	1.6	0.38	0.1625	0.495	0.126105	0.60133	0.185148	1	0.96551	0.776843	
SfBq1	Q9C099	0.06	-0.28	-0.31	-0.23	-0.48	0.02	-0.65	-0.84	0.6	-0.2	-0.22	0.04	1.5	0.39	0.18	-0.03	-0.2975	0.245	0.7	0.20815	0.371761	0.071424	1	0.96551	0.668066	
SfBq1	Q9C098	-1.13	-0.23	-1.09	-3.44	-0.15	-0.98	1.07	-0.88	-0.62	-0.58	-2.1	-1.08	-1.59	-0.26	-1.58	-0.46	1.2375	0.37	0.5	0.126211	0.602039	0.483063	1	0.96551	0.893925	
SfBq1	B2R0R5	0.94	1.01	0.63	0.85	1	0.74	0.38	0.61	1.12	1.28	0.61	1.19	1.14	1.42	1.01	0.75	-0.175	0.1925	0.2225	0.372707	0.337701	0.131726	1	0.96551	0.838864	
SfBq1	Q8U012	0.17	0.26	0.63	0.51	0.48	-0.07	0.57	0.5	0.87	1.9	0.55	0.12	1.47	0.77	0.82	0.66	-0.0225	0.4675	0.5375	0.914773	0.239197	0.0541	1	0.96551	0.661738	
SfBq1	Q8VC26	-2.25	-2.53	-0.47	-0.78	-2.53	-2.24	-1.04	-1.25	-2.09	-0.32	-0.59	-1.91	-1.1	-2.21	-1.17	-0.61	-0.2575	0.28	0.235	0.657748	0.65862	0.680117	1	0.96551	0.955686	
SfBq1	Q8U0D0	0.88	0.39	0.05	-0.66	0.47	0.87	0.08	0.12	-0.56	-0.67	0.22	1.1	-0.08	-1.86	0.2	0.04	-0.22	-0.14	-0.59	0.543819	0.774776	0.288845	1	0.96551	0.824705	
SfBq1	Q8V033	-1.35	-1.15	-0.67	-0.86	-1.13	-1.23	-0.61	-0.79	-0.84	-0.68	-0.72	-1.06	-0.62	-0.6	-0.62	-0.6	-0.62	-0.6	0.265	0.960072	0.66993	0.185289	1	0.96551	0.824669	
SfBq1	Q912M2-2	0.5	-1	-2.07	-0.02	-3.73	-0.81	-2	-0.73	2.35	-0.52	-0.86	-0.77	1.61	-5.72	0.1	-1.89	-1.17	0.6975	-0.8275	0.714928	0.427693	0.583341	1	0.96551	0.927734	
SfBn1	Q912M2-4	-0.1	-0.18	-0.05	-0.27	-0.18	-0.16	-0.62	-0.4	0.07	-0.12	-0.32	-0.04	0.12	0.25	-0.87	-0.6	-0.19	0.0475	-0.125	0.282597	0.718262	0.670601	1	0.96551	0.925258	
SfBn2	A0A0G2E2	0.23	1.58	0.11	0.4	0.83	-0.4	0.3	0.29	0.13	0.09	0.28	-0.56	1.41	1.56	-0.86	1.01	-0.325	-0.4	0.2	0.423759	0.113589	0.739017	1	0.96551	0.958796	
SfBn15	Q9Z5S-2	-0.05	-0.15	-0.15	-0.26	0.92	0.01	0.07	0.43	0.07	-0.18	0.17	0.18	-0.1	0.18	0.21	0.17	0.2045	0.2915	0.3675	0.296213	0.129048	0.240623	1	0.96551	0.721147	
SfBn5	Q8ZUW5	-0.31	-0.97	0.3	-0.78	-0.66	-0.46	-0.69	-0.84	-0.4	-0.59	-1.21	-0.44	-0.29	-0.66	0.41	-1.16	-0.2225	-0.22	0.015	0.455456	0.517809	0.971234	1	0.96551	0.992803	
SfBn1	Q8IUH8	-0.29	-0.46	-0.59	-0.31	-0.98	-0.27	-0.16	-0.01	0.69	-0.23	-0.16	-0.13	-0.15	-0.47	-0.61	-0.58	0.0755	0.455	0.035	0.811845	0.097348	0.881053	1	0.96551	0.979767	
SfBn2q2	Q8M673	0.44	-0.63	-0.11	-0.1	-1.12	-0.45	-0.72	-0.03	-0.98	-0.69	-0.16	-0.35	-1.01	-1.74	-1.33	-0.66	-0.255	-0.445	-1.085	0.518942	0.154184	0.08096	1	0.96551	0.563386	
SfBn3q3	Q91VW3	-0.36	-0.27	0.4	-0.65	-0.41	-0.3	-0.08	-0.58	-0.93	-2.12	0.56	1.3	-1.5	0.38	0.1	-0.99	-0.1725	-0.425	-0.3425	0.432001	0.322949	0.39751	1	0.96551	0.914132	
SfBn1	P515B4	0.27	0.71	0.4	0.19	0.4	-0.07	0.12	0.03	0.65	-0.77	0.39	0.22	0.95	0.51	0.05	-0.01	-0.2725	-0.27	0.1375	0.17946	0.96406	0.587208	1	0.96551	0.929489	
SfBn3q4	Q92116	-0.3	0.24	-0.08	-0.1	0.1	-0.21	-0.07	0.04	0.08	0.74	0.4	0.1	-0.12	0.2	0.39	0.13	-0.16	0.025	0.2	0.888034	0.398072	0.363426	1	0.96551	0.858475	
SfBn3q5	Q92131	-1.2	-0.48	-0.27	-0.78	-0.14	-0.98	0.18	-0.19	-1.43	-0.93	0.16	-1	-0.74	-1.67	-0.34	0.13	0.265	-0.2525	-0.1075	0.487885	0.564248	0.816587	1	0.96551	0.927768	
SfBn3q1	Q9J9H6	-0.44	-0.52	-0.04	-0.63	-1.38	-0.13	-2.12	-0.48	0.31	1.18	-0.14	0.12	-0.12	0.13	-0.7	-0.615	1	0.775	0.182426	0.02577	0.209077	1	0.96551	0.786218		
SfBn3q1	A0A571BE	0.74	0.62	0.98	0.84	0.55	0.57	0.27	1.21	1.57	0.62	1.23	0.28	2.02	1.43	0.82	0.51	0.74	0.831467	0.100518	0.943673	0.465473	1	0.96551	0.958434		
SfBn3q1	Q62419	1.24	1.25	0.86	0.75	0.8	1.51	0.39	0.59	1.22	0.78	0.75	1.25	0.96	0.75	0.07	0.29	-0.2025	-0.025	-0.5075	0.475141	0.910712	0.084845	1	0.96551	0.691619	
SfBn3q2	A2ALV3	1.71	1.26	1.85	1.78	0.85	1.38	0.77	1.49	1.66	1.05	1.48	1.7	1.04	1.01	1	0.87	-0.5275	-0.1775	-0.67	0.053282	0.355453	0.088088	1	0.96551	0.563386	
SfBn3q1	A0A0A008	0.93	1.17	0.85	1.08	0.8	0.95	1.06	0.75	0.91	1.13	0.54	0.7	0.89	1.02	0.69	0.76	-0.1175	-0.1875	-0.1675	0.747439	0.403441	0.738202	1	0.96551	0.862094	
SfBn3q1	Q9K4B-2	0.58	0.47	1.56	1.65	0.54	0.51	0.61	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.0725	0.814291	0.161527	0.505029	1	0.96551	0.976225	
SfBn3q2	A2AIW9	1.16	1.45	1.34	1.28	1.08	0.61	1.71	1.88	0.03	1.32	1.77	0.84	0.51	1.68	0.96	0.54	-0.1875	-0.5175	-0.84	0.586858	0.221419	0.101018	1	0.96551	0.698156	
SfBn3q2	A2AIW7	0.86	0.32	-0.74	-0.83	-0.11	0.72	-1.31	-0.69	0.24	-0.74	-0.24	-0.42	-0.92	0.28	-0.88	-0.67	-0.25	0.1								

US25a11	Q9C62	-0.34	0.16	0.24	0.15	-0.07	0.03	-0.28	0.12	-0.22	-0.23	0.21	-0.69	-0.18	-0.07	-0.43	-0.13	-0.1025	-0.285	-0.255	0.600263	0.272193	0.24753	1	0.95511	0.803677	
US25a12	Q8BH59	0.29	0.12	0.46	0.41	-0.46	0.07	0.24	0.28	-0.04	-0.04	0.12	-0.41	-0.12	-0.34	0.01	-0.2875	-0.21	-0.535	0.200284	0.280563	0.02145	1	0.95511	0.621926		
US25a13	Q9XXA4	-0.26	0.12	0.06	0.32	0.1	0.31	0.21	0.1	0.06	0.01	-0.22	-0.44	-0.49	-0.12	0.22	-0.115	-0.2225	-0.255	0.462471	0.113892	0.307309	1	0.95511	0.832533		
US25a14	QA0A0MG	-0.92	-0.48	-0.27	-0.59	-0.3	-0.57	-0.17	-0.46	-1.12	-0.43	-0.36	-0.78	-0.74	-0.68	-0.33	-0.19	-0.1075	-0.08	0.347135	0.664166	0.732175	1	0.95511	0.958635		
US25a15	Q9VWV5	0.21	0.48	0.61	1.15	0.69	0.08	1	1.23	-0.23	0.39	0.99	-0.04	-0.16	0.43	0.34	0.88	0.1375	-0.335	-0.24	0.661669	0.327996	0.136435	1	0.95511	0.882882	
US25a16	Q13YVC9	-0.67	-0.15	-0.46	-0.47	-0.2	-0.15	-0.3	-0.59	-0.46	-0.42	-1.03	-0.25	-0.12	-0.21	-0.61	-0.57	-0.4	0.1275	-0.0175	0.095	0.49999	0.94346	0.760187	1	0.95511	0.957084
US25a17	Q705V9	0.07	0.1	0.3	0.22	0.6	0.08	0.88	1.04	-0.46	-0.42	0.39	0.49	0.44	-0.37	0.79	0.04	0.68	0.455	-0.17	0.125	0.046635	0.504734	0.791911	1	0.95511	0.955249
US25a18	Q90A41	1.22	0.85	0.55	0.9	0.57	0.8	-0.17	-0.04	0.68	0.27	0.88	0.62	0.99	0.32	0.76	0.74	-0.59	-0.2675	-0.1775	0.057745	0.245613	0.460305	1	0.95511	0.887902	
US25a19	Q90AM5	1.05	0.63	0.76	0.98	0.09	0.85	-0.42	0.51	0.14	0.95	0.58	0.65	0	-0.27	0.02	-0.5975	-0.275	-0.8675	0.066388	0.254583	0.002042	1	0.95511	0.419079		
US25a20	Q922Z6	-0.67	0.28	-0.12	0.02	0.4	0.57	0.04	-0.38	1.4	-0.5	-0.15	0.79	0.63	1.53	-0.64	-0.26	-0.105	0.1225	0.0525	0.778018	0.788747	0.91567	1	0.95511	0.985656	
US25a21	Q6C735	-0.07	0.13	0.06	0.32	0.1	0.31	0.21	0.1	0.06	0.01	-0.22	-0.44	-0.49	-0.12	0.22	-0.115	-0.2225	-0.255	0.462471	0.113892	0.307309	1	0.95511	0.832533		
US25a22	Q90A0MG	-0.57	-0.38	0.1	0.03	-0.12	0.73	0.73	0.21	-0.6	-0.43	0.5	0.28	-0.89	-0.35	-0.18	0.23	0.0475	0	0.2375	0.097271	0	0.1	0.403193	1	1	0.870698
US25a23	Q6G501	0.53	0.7	0.68	0.58	0.36	0.68	0.35	0.63	0.5	0.31	0.69	0.44	0.67	0.59	0.19	0.26	-0.1175	-0.1375	-0.195	0.468082	0.424134	0.33437	1	0.95511	0.846677	
US25a24	Q8BM08	1.05	0.44	1.04	1.27	0.53	0.92	1.26	2.17	0.86	0.08	1.24	0.79	1.5	0.84	0.53	1.09	-0.27	-0.2075	0.04	0.476862	0.501987	0.889758	1	0.95511	0.98149	
US25a25	A2AS26-2	-0.16	0.91	0.41	0.18	1.19	0.7	1.25	0.51	0.4	0.24	0.84	0.14	0.06	1.28	0.17	0.18	0.5775	0.07	0.2425	0.073053	0.805225	0.504374	1	0.95511	0.901002	
US25a26	A2AS26-4	0.12	0.32	0.32	0.66	0.18	0.35	0.1	-0.02	-0.47	-0.31	-0.22	-0.07	0.48	-0.25	0.16	0.3	-0.14	-0.1675	0.0075	0.387992	0.440272	0.922116	1	0.95511	0.987447	
US25a27	Q5U680	-0.83	-0.45	0.01	-0.22	-0.78	-0.3	-0.11	-0.59	-0.55	-0.37	-0.16	-0.68	-0.49	0.06	-0.68	-0.53	-0.0295	-0.2925	-0.265	0.806941	0.337923	0.419484	1	0.95511	0.875558	
US25a28	Q90A60	0.15	0.26	0.09	0.17	0.11	0.4	-0.34	-0.19	-0.22	-0.57	0.37	0.09	0.08	-0.47	-0.23	-0.52	-0.1725	-0.25	-0.4525	0.400298	0.303701	0.05084	1	0.95511	0.658454	
US25a28	QA0454B4	2.7	-0.24	2.2	0.7	1.48	1.19	-1.25	0.5	1.23	-1.13	0.31	0.23	0.43	-2.35	-2.46	0.08	-0.86	-1.18	-0.2175	0.311364	0.144814	0.877985	1	0.95511	0.979526	
US25a29	Q8BL03	-0.06	0.12	0.11	0.24	0.2	-0.12	-0.21	-0.27	-0.11	0.48	0.07	-0.09	0.94	0.17	0.02	0.42	-0.2025	0.05	0.285	0.250261	0.805903	0.260402	1	0.95511	0.818107	
US25a3	Q8YEM8	-0.02	0.2	0.22	0.35	-0.14	0.08	0.06	0.04	-0.07	-0.06	0.22	-0.22	-0.28	0.28	-0.51	-0.4	-0.1775	-0.22	-0.415	0.277375	0.249117	0.103387	1	0.95511	0.701092	
US25a31	Q3V132	-0.54	-0.66	0.01	-0.49	-0.66	-0.3	-0.88	-0.86	1.43	2.5	-0.5	-0.84	1.95	-0.61	-1	-0.68	-0.255	1.0675	0.335	0.268904	0.170667	0.600233	1	0.95511	0.93091	
US25a32	Q8BM08	-1.11	0.51	-0.04	0.37	-0.21	-0.61	-0.04	-0.06	0.57	-0.61	0.1	-0.77	0.6	1.96	-0.56	-0.43	-0.1625	-0.11	0.46	0.663177	0.808245	0.471621	1	0.95511	0.891144	
US25a33	Q3T23	-0.14	0.57	0.58	0.3	-0.15	-0.2	0.5	0.32	-0.03	-0.15	0.48	-0.18	0.62	-0.23	0.13	0.11	-0.21	-0.2975	-0.17	0.415915	0.255205	0.331143	1	0.95511	0.909419	
US25a35	Q5WV73	-0.88	-0.28	-1.02	-0.97	-0.31	-0.95	-0.64	-0.01	-0.26	-0.79	-0.27	-0.61	0.08	-0.26	-1.17	-0.64	-0.085	3.055E-01	0.29	0.725714	0.229401	0.38146	1	0.95511	0.868094	
US25a36	Q922G0	-1.45	-1.23	-0.38	-1.33	-1.43	-0.41	-1.03	-0.64	-1.16	-0.73	-0.05	-1.13	-0.58	-1.11	-0.19	-0.47	0.22	0.33	0.51	0.501647	0.356227	0.134971	1	0.95511	0.731223	
US25a4	PA8962	-0.2	0.04	-0.42	-0.23	-0.04	0.23	-0.12	-0.17	-1.08	-0.01	-0.35	-0.73	0.02	-1.2	-0.69	0.1775	-0.225	-0.4475	0.330521	0.406358	0.144475	1	0.95511	0.743156		
US25a40	Q8BP66	-0.82	-0.32	-0.5	-0.62	-0.37	-0.35	-0.34	-0.76	0.6	-1.01	-0.46	-0.52	-1.23	-0.5	-1.69	-0.89	-0.11	-0.0825	-0.5125	0.560002	0.691838	0.10887	1	0.95511	0.703407	
US25a42	Q8BY08	0.13	0.28	0.19	0.29	0.37	0.1	-0.05	-0.32	0.21	-0.41	0.39	-1.08	-0.12	-0.15	-0.12	0.13	-0.22	-0.1615	0.564328	0.259573	0.70686	0.05	1	0.95511	0.686966	
US25a44	Q3TMC4	1.39	1.52	0.06	-0.03	0.41	1.68	-0.41	-0.82	2.45	-1.1	-0.31	1.43	1.26	-1.23	-0.71	-0.52	-0.1175	-0.1225	0.417796	0.881556	0.899092	1	0.95511	0.983519		
US25a46	Q9C5C4	0.38	0.67	0.94	0.34	0.58	0.79	1.62	0.57	-0.14	0.74	1.05	0.35	0.05	0.34	1.2	1.36	0.3075	-0.0825	0.13	0.299615	0.2986	0.719718	1	0.95511	0.958398	
US25a5	Y51881	-0.8	-0.74	-1.4	-0.73	-0.38	-0.31	-0.67	-1.26	-0.98	-1.62	-1.09	-1.44	-1.47	-0.38	-1.79	-1.34	0.2625	-0.26	-0.3275	0.33197	0.92946	0.352918	1	0.95511	0.855029	
US25a51	Q9H29	0.26	0.12	0.37	0.36	0.11	0.35	0.1	-0.01	0.23	-0.06	0.07	0.07	0.48	-0.25	0.13	-0.07	-0.1375	-0.04	-0.1125	0.348977	0.369864	0.386802	1	0.95511	0.942804	
US25a53	A2AF34	-1.55	-0.75	-0.01	-0.49	-0.74	-0.98	-0.21	-0.43	-0.92	0.25	-0.17	-1.34	-0.96	-1.14	-1.04	-0.3	0.11	0.155	-0.1725	0.753793	0.733022	0.642854	1	0.95511	0.94365	
US25a2	E9P206	-0.05	-0.24	0.34	1.2	0.01	0.79	-0.36	0.1	-0.24	-0.11	-0.86	-0.44	0.7	0.14	-0.53	-0.12	-0.1775	-0.505	-0.28	0.641918	0.226413	0.588156	1	0.95511	0.927734	
US26a6	Q8WC6-3	2.89	2.5	1.16	0.59	2.14	3.18	0.67	0.74	1.2	0.27	1.08	3.46	1.14	0.72	1.58	0.7	-0.1025	-0.2825	-0.75	0.888946	0.721705	0.187817	1	0.95511	0.776843	
US27a1	Q67114	-0.46	0.18	0.55	0.2	0.2	0.6	0.6	0.1	-0.22	0.22	0.38	-0.07	0.51	0.15	0.12	0.02	0.1	0.0975	0.058909	0.746272	0.386802	0.05	1	0.95511	0.950574	
US27a2	Q35488	0.13	0.3	-0.31	-0.19	0.43	0.25	-0.24	-0.15	0.3	0.2	-0.96	0.2	0.98	0.51	0.36	-0.2	0.09	0.1025	0.43	0.69883	0.794629	0.76041	1	0.95511	0.762322	
US27a3	G3X877	0.12	0.72	0.32	0.24	1.85	0.85	-0.05	0.59	1.4	1.14	0.46	0.92	2.62	2.31	1.61	0.96	0.46	0.63	1.525	0.260922	0.03519	0.00318	1	0.95511	0.467521	
US27a4	Q91VE0	0.65	0.57	0.31	0.1	0.7	0.67	0.23	0.26	0.1	-0.16	0.23	0.78	1.16	0.21	0.46	0.45	0.0975	-0.17	-0.0875	0.782376	0.511489	0.675485	1	0.95511	0.952944	
US29a1	Q91M1-2	1.93	1.44	0.92	0.3	1.51	2.27	1.86	1.46	0.06	-0.65	1.46	2.11	0.93	0.7	1.4	1.41	0.6275	-0.4025	-0.3875	0.123742	0.545505	0.486217	1	0.95511	0.897918	
US29a2	QA0454B4	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	0.125	0.291714	0.169503	0.843488	1	0.95511	0.927734	
US29a3	T1809	1.4	0.97	1.42	0.88	0.85	0.83	1.07	0.99	1.2	-0.4	1.54	1.14	0.97	0.74	0.94	1.13	-0.2325	-0.2925	-0.234304	0.945401	0.838179	1	0.95511	0.938669		
US2a13	Q3UHK1	-0.07	0.13	-0.51	-0.51	0.29	-0.07	-0.19	-0.07	-0.06	0.25	-0.72	-0.18	-0.14	0.51	-0.33	-0.63	-0.195	-0.0825	0.1625	0.886903	0.81501	0.601779	1	0.95511	0.930802	
US2a13	Q3U037	0.82	1.05	1.26	1.38	1.13	0.72	0.79	1.39	0.46	0.36	1.32	0.76	-0.04	1.34	1.08	0.7	-0.12	-0.4025	-0.3575	0.591007	0.815998	0.29297	1	0.95511	0.825612	
US2a16	Q3U010	-0.14	-0.08	-0.16	-0.08	-0.16	-0.08	-0.16	-0.08	-0.16	-0.08	-0.16	-0.08	-0.16	-0.08	-0.16	-0.08	-0.16	-0.08	-0.16	0.111	0.883022	0.771166	0.778676	1	0.95511	0.958796
US30a1	Q60738	0.44	0.47	-0.4	-0.18	1.08	0.9	0.12	-0.23	1.14	-0.75	-0.4															

Slk	054988-2	0.94	0.32	0.14	0.37	0.04	0.58	-0.19	0.2	0.4	-0.02	-0.19	0.61	0.29	-0.3	-0.11	-0.56	-0.285	-0.2425	-0.6125	0.271383	0.378752	0.048008	1	0.965511	0.658454
Slmap	F6WY34	-0.07	0.26	-0.02	0.45	1	-0.2	-0.81	-1.19	0.5	0.52	0.32	0.37	-0.28	1.05	-0.37	1.14	-0.085	0.2375	0.195	0.858861	0.211523	0.034148	1	0.965511	0.941132
Slmap2	Q312V3	-0.17	0.42	0.61	0.37	0.24	0.65	0.63	0.48	0.4	0.3	0.32	0.56	0.79	-0.09	0.93	0.72	-0.03	-0.1125	0.0575	0.861376	0.51792	0.83066	1	0.965511	0.973939
Slm	Q8H25-2	1.71	0.5	0.67	0.74	-0.67	1.05	-0.52	1.2	0.69	-0.78	0.71	-0.04	1.77	-0.12	1.13	0.08	-0.64	-0.76	0.19	0.241281	0.100894	0.681436	1	0.965511	0.955729
Slm2	Q8H9B	0.56	0.32	1.3	0.66	-0.71	1.12	1.11	1.39	1.19	-2.88	1.56	1.21	2.62	-0.69	0.98	0.64	0.0175	0.19	0.1775	0.97306	0.81004	0.784708	1	0.965511	0.967642
Slu7	Q6243-2	-1.12	-1.32	-1.59	0.12	-1.39	-1.32	-1.37	-1.68	-0.47	-2.02	-0.9	-0.4	0.41	-2.14	-0.04	-0.425	0.735	0.0225	0.231298	0.431679	0.717197	1	0.965511	0.992803	
Smad15	Q8BUK5	-1.41	-1.82	-1.27	-1.1	-1.3	-0.81	-1.54	-1.57	-1.25	-0.33	-2.12	-1.57	0.63	-0.78	0.05	-2.11	0.17	0.1475	0.2575	0.78436	0.747559	0.897211	1	0.965511	0.897211
Smad4	P97471	-1.17	-1.43	-0.47	-0.41	-1.33	-1.24	-0.71	-0.82	0.6	0.53	-0.86	-1.15	-0.91	-0.79	-0.75	-0.5	-0.155	0.085	0.1325	0.602667	0.757529	0.645514	1	0.965511	0.944749
Smad5	P97454	-1.55	-0.93	0.53	0.19	-0.88	-1.76	0.1	-0.01	1.3	1.03	-0.08	-1.95	1.45	3.93	0.51	0.23	-0.1925	0.515	1.97	0.746581	0.523762	0.047729	1	0.965511	0.658454
Smmap	Q9R0P4	-4.87	-0.3	-5.51	-0.09	-1.55	-6.04	-6.27	-7.04	-4.85	-2.92	-6.01	-4	-5.03	-3.73	-5.93	-6.76	-0.6825	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.983509
Smmap2	Q91V26	-0.67	0.56	-0.65	0.25	-0.65	0.21	-0.65	0.35	0.48	0.11	0.15	0.06	0.19	-0.09	0.93	0.72	-0.03	-0.1125	0.0575	0.861376	0.51792	0.83066	1	0.965511	0.952558
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.3075	0.8975	0.08	0.142605	0.178193	0.899782	1	0.965511	0.952558	
Smmap2	Q71N29	-0.35	-0.5	-0.52	-0.45	-0.8	-0.68	-0.66	-0.51	-0.52	-0.93	-0.45	-0.86	-0.79	-0.12	-0.07	-0.30									



Spag7	G7TNE3	-1.67	-1.83	-2.5	-2.41	-2.14	-2.04	-2.64	-2.84	-1.45	-1.13	-3.02	-1.74	-1	-1.43	-2.92	-2.45	-0.3125	0.2675	0.1525	0.28958	0.544888	0.74152	1	0.956511	0.958796
Spag7	OSBAG5-2	-0.19	-0.35	-0.63	-0.64	-0.33	-0.58	-0.74	-0.8	-0.91	-0.48	-0.7	-0.48	-0.98	-0.28	-1.18	-1.23	-0.16	-0.19	-0.465	0.411002	0.83575	0.112356	1	0.956511	0.714111
Sparc	Q5NCU14	0	-0.13	0	-0.53	0.29	-0.27	0.83	0.25	-1.25	0.8	0.05	-0.54	-1.22	-0.77	0.71	1.45	0.475	0.5375	0.315	0.064464	0.511616	0.19308	1	0.956511	0.929843
Sparrcl	P70663	0.54	-0.05	-0.32	-0.54	-0.06	0.45	-0.36	-0.35	-1.05	0	-0.39	0.85	-0.29	-1.11	0.03	-0.12	0.0125	-0.055	-0.28	0.966604	0.39309	0.425209	1	0.956511	0.877372
Sparrt	Q8R1K6	0.6	0.4	0.66	0.65	0.29	0.34	-0.39	0.47	0.29	1	0.37	0.31	0.71	0.36	0.74	0.51	-0.205	-0.085	0.0205	0.192495	0.698444	0.989376	1	0.956511	0.989376
Sparrt	A0A28BEVc	0.48	0.43	-0.11	0.04	0.05	0.43	-0.49	0.14	0.42	0.49	-0.07	0.83	0.57	-0.26	0.06	0.42	-0.1775	0.2075	-0.2225	0.487773	0.42712	0.438286	1	0.956511	0.883161
Spata1	Q905M4	-0.4	3.81	0.21	-0.29	4.61	4.3	0.33	0.02	-0.29	3.78	1.5	2.31	2.01	0.27	0.25	0.4	-1.2775	-1.0225	0.795916	0.403448	0.1275	0.21	1	0.956511	0.865735
Spata2	Q8K004	-0.14	-0.05	0.49	0.33	-0.59	0.03	0.21	0.09	0.36	0.64	0.43	-0.2	0.98	-0.51	0	-0.1	-0.2375	0.15	0.065	0.347334	0.560677	0.851816	1	0.956511	0.976225
Spata2	Q8BNN1	0.39	0.2	0.14	0.4	-0.07	0.22	0.54	0.09	0.38	0.89	0.2	0.69	0.29	0.31	0.4	0.27	0.085	0.2575	0.035	0.640535	0.241872	0.840746	1	0.956511	0.976225
Spata5	A0A02JF7	-1.77	-0.36	-0.28	-0.44	-0.49	-1.25	0.15	-0.44	-0.08	-0.19	-0.26	-0.56	-0.93	0.27	-0.3	-0.52	-0.045	0.19	0.0925	0.880203	0.26509	0.749638	1	0.956511	0.961334
Spag2	Q8K1M4	-0.42	-1.31	-1.08	-1.46	-0.88	-1.34	-0.86	-1.36	-0.43	-0.29	-0.43	-1.05	-0.9	-0.77	0.1	-0.49	-0.13	0.29	0.6975	0.924732	0.057227	0.015962	1	0.956511	0.958937
Spag2	EPV0D3	-1.08	-1.45	-1.47	-1.38	-1.13	-0.96	-1.74	-1.75	-1.05	-0.94	-1.29	-1.01	-1.16	-0.87	0.61	-0.105	0.2725	0.7325	0.834844	0.136051	0.041	0.658454	1	0.956511	0.958937
Spcl1	A0A23BRV	-0.15	0.35	-0.32	-0.14	0.61	-0.18	0.62	0.31	-0.38	-0.27	-0.01	-0.08	-0.29	1.12	0.25	0.1	0.405	-0.12	0.36	0.131223	0.571965	0.296374	1	0.956511	0.825612
Spcl1	A0A140LM	-2.19	1.98	2.34	2.38	2.19	2.14	2.96	2.78	2.05	2.52	2.21	2.01	1.96	2.48	3.53	2.85	0.295	-0.025	0.4825	0.24171	0.899476	0.182606	1	0.956511	0.776002
Spcl1	Q8ZW07	-0.19	-0.15	0.56	-0.19	-0.38	-0.28	0.82	-0.03	0	0.69	0.3	-0.56	-0.35	0.59	0.65	1.06	0.215	0.1	0.48	0.481726	0.795314	0.19302	1	0.956511	0.777117
Spcl1	A0A019Uf	-0.48	1.46	1.2	1.58	1.12	0.86	0.13	1.45	0.41	1.78	1.57	1.11	1.15	2.25	2.21	2.31	0.085	0.16	0.8875	0.770017	0.618004	0.019999	1	0.956511	0.915793
Spcl1	A0A019YU	-0.09	0.01	0.13	0.07	-0.02	-0.4	0.14	-0.14	-0.18	0.54	-0.04	0.16	0.33	0.31	0.04	0.27	-0.135	0.09	0.2075	0.444444	0.68637	0.261013	1	0.956511	0.81412
Spcl1	Q2XN8X	0.43	0.67	0.89	0.54	0.56	0.1	0.49	0.26	0.59	0.79	0.66	0.83	0.27	0.96	0.52	0.28	-0.28	0.085	-0.125	0.158022	0.638689	0.593784	1	0.956511	0.929843
Spcl1	EP9Q25	0.27	0.42	0.6	0.54	0.03	0.23	0.11	0.45	0.9	1.02	0.63	0.45	1.18	0.79	0.62	0.3	-0.2225	0.2925	0.2725	0.162816	0.166309	0.26304	1	0.956511	0.815234
Spcl1	A2A0B1	-0.84	0.71	-0.03	0.28	1.2	-1.49	-0.25	0.07	0.13	0.34	-0.54	-1.18	0.3	-0.06	0.42	0.25	-0.4175	0.0125	0.4025	0.337894	0.975791	0.281816	1	0.956511	0.822084
Spcl1	Q3UHA3	-1	-1.5	0.67	0.59	-1	-0.78	0.42	0.13	2.28	0.4	0.97	-0.81	2.32	-0.1	0.53	0.7	0.0025	1.02	1.1725	0.996638	0.206391	0.114897	1	0.956511	0.717287
Spcl1	Q5QC08	-0.4	0.14	-0.64	0.16	0.78	-0.18	-0.33	0.12	-0.33	-0.54	-0.42	-0.37	-0.33	1.03	-0.6	-0.32	0.2825	-0.23	0.13	0.376288	0.340745	0.747326	1	0.956511	0.960744
Spcl1	P3ZV24	0.39	0.36	0.08	0.37	0.41	0.45	0.05	0.19	0.49	0.01	0.43	0.22	0.61	0.24	-0.11	-0.03	-0.025	-0.0125	-0.1225	0.88396	0.947308	0.950255	1	0.956511	0.929142
Spcl2	Q3UAT7	-0.03	0.3	-0.59	-0.43	0.34	0.16	-0.41	-0.35	0.47	-1.27	-0.23	0.34	0.27	0.56	-1.05	-0.52	0.1225	0.05	0.0025	0.660331	0.971567	0.995048	1	0.956511	0.968224
Spcl2	EP9UC4	-0.68	-0.65	-0.65	-0.71	0.01	-0.35	-0.49	-0.71	0.01	-0.13	-0.39	-0.11	0.74	0.55	0.18	-0.41	0.28875	0.01845	0.9375	0.156732	0.012847	0.007614	1	0.956511	0.555014
Spcl1	Q61142-2	-1.83	-1.56	-1.48	-1.81	-1.85	-1.98	-1.33	-2	-1.66	-0.56	-1.97	-1.07	-1.43	-0.86	-1.22	-1.53	-0.12	0.355	0.41	0.568884	0.291266	0.092111	1	0.956511	0.695932
Spcl1	A0A0H12H	0.97	1.1	0.64	0.64	1.04	0.89	0.13	0.45	0.65	-0.19	-0.65	0.21	1.55	1.36	-0.2	0.26	-0.21	-0.1325	-0.095	0.411519	0.022416	0.821174	1	0.956511	0.927768
Spcl2	Q8K1S6	-0.65	-0.03	-0.04	-0.21	0.18	0.8	0.12	-0.44	-0.08	-0.57	-0.27	-0.45	0.59	0.08	0.08	-0.19	-0.0025	0.175	0.5975	0.929843	0.435259	0.079897	1	0.956511	0.681818
Spcl1	Q3YTR6	-0.9	-0.69	-0.17	-0.37	-1.07	-0.11	0.82	-0.64	-0.13	-0.13	-0.29	0.17	0.77	0.67	-0.63	0.65	0.07	0.777327	0.036565	0.18	0.065	0.48	1	0.956511	0.958198
Spcl1	Q3V1M4	0.76	1.68	0.83	0.26	0.72	1.04	0.69	0.96	2.1	0.76	0.14	1.22	-0.27	-0.05	0.35	1.38	-0.03	0.1725	0.105	0.921286	0.716815	0.849611	1	0.956511	0.976225
Spcl1	Q6D1C9	2.25	-0.55	1.24	-0.03	1.29	-0.67	0.51	-0.32	-0.66	-0.34	-0.33	-0.24	2.55	-0.82	1.91	0.22	-0.525	-1.12	0.2375	0.458724	0.083485	0.790947	1	0.956511	0.969105
Spcl1	Q9ER58	-1.13	-1.14	-1.45	-0.71	-0.67	-0.28	-0.38	-0.97	0.59	-0.87	-0.78	-0.72	-0.7	-0.3	-0.4	0.6075	0.6	0.07	0.017071	0.144186	0.032331	0.148794	1	0.956511	0.641974
Spcl1	Q8BRV0	-0.3	0.25	0.32	-0.23	0.12	0.86	0.13	0.59	0.06	0.56	1.06	1.24	1.15	2.25	2.21	2.31	0.085	0.16	0.8875	0.770017	0.618004	0.019999	1	0.956511	0.915793
Spcl1	Q8VCC9	-1.91	-2.09	-1.19	-1.56	-1.66	-1.88	-1.15	-1.3	-1.64	-1.3	-1.19	-1.85	-1.25	-1.38	-1.62	-1.68	0.19	0.1925	0.205	0.482207	0.477961	0.429561	1	0.956511	0.879165
Spout1	Q3UHK9+C	-0.49	-0.63	1.26	1.83	-1.57	-0.68	-1.58	-0.38	0.51	1.89	0.93	-0.56	1.58	-1.74	1.06	-0.47	-1.785	-0.045	-0.63	0.011177	0.946396	0.455689	1	0.956511	0.887169
Spout2	Q2U9I9	-0.08	0.12	0.74	0.66	-0.16	0.64	0.38	0.3	0.41	0.87	0.43	0	2.11	0.43	0.45	0.03	0.07	0.3175	0.5875	0.739942	0.381905	0.189986	1	0.956511	0.728843
Spout2	Q3TD49	-0.9	-0.69	-0.17	-0.37	-1.07	-0.11	0.82	-0.64	-0.13	-0.13	-0.29	0.17	0.77	0.67	-0.63	0.65	0.07	0.777327	0.036565	0.18	0.065	0.48	1	0.956511	0.958198
Sprr	Q3U1M5	0.2	0.13	-0.26	0.12	0.23	0.14	-0.1	-0.2	0.08	-0.14	-0.35	0.08	-0.15	0.43	-0.63	-0.11	0.03	-0.07	-0.1525	0.877249	0.725867	0.576796	1	0.956511	0.921286
Spred1	Q2U548	1.49	1.94	0.95	1.12	1.55	1.32	0.79	1.08	1.65	1.08	1.68	1.95	1.98	1.03	1.06	-0.19	-0.0075	0.13	0.489916	0.579024	0.706419	1	0.956511	0.957084	
Spred2	Q2U547	0.04	0.62	0.93	0.74	0.25	0.36	0.66	0.94	0.04	0.12	0.91	0.49	0.12	-0.87	0.77	0.88	-0.03	-0.1925	-0.3575	0.906929	0.507758	0.409553	1	0.956511	0.874757
Spred2	A0A0R40M	1.05	0.05	0.72	1.26	-0.37	1.17	-0.07	0.65	1.81	1.59	0.66	1.6	1.13	0.46	0.27	0.62	-0.425	0.65	-0.125	0.136869	0.929939	0.697641	1	0.956511	0.955729
Sprr2	A0A1B0D5	-0.13	-0.25	-0.22	-0.11	-0.21	0.01	0.51	0.4	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	0.09	0.718483	0.670443	0.776027	1	0.956511	0.967929
Sprr2	Q3UQV8	1.24	1.19	1.65	1.27	1.06	1.47	1.59	1.84	1.61	-0.09	0.23	1.62	1.55	1.85	2.52	1.26	0.1525	-0.045	0.4575	0.408877	0.920916	0.555799	1	0.956511	0.751103
Sprr2	Q9D9H3	1.13	1.06	0.97	0.43	1.22	0.71	0.43	0.66	-0.1	0.02	0.9	1.34	-0.38	0.38	1.3	1.23	-0.1425	-0.3575	-0.265	0.563739	0.347615	0.523496	1	0.956511	0.90791
Sprr2	EP91W1	0.61	0.4	0.69	0.4	0.99	0.52	0.76	0.48	0.19	-0.14	0.53	0.34	-0.05	0.65	-0.04	0.13	0.0375	-0.2925	-0.3525	0.818551	0.178071	0.146382	1	0.956511	0.746406
Sprr2	Q3TFL1	-1.17	-1.46	-1.12	-1.47	-1.09	-0.93	0.8	-0.41	-0.83	-0.78	-1.05	-1.17	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	0.04	0.47764	0.932418	0.13273	1	0.956511	0.957084
Sprr1	P0B032	0.88	-0.78	1.39	2.59	-0.42	2.06	1.04	2.46	0.57	0.12	0.83	-0.3	0.97	0.38	0.44										

Slk24	C99KX48	0.57	0.46	0.64	0.74	0.09	0.25	0.78	1.1	-0.89	-0.36	0.65	0.36	-1.1	-1.21	0.21	0.26	-0.0475	-0.6625	-1.0625	0.850807	0.08889	0.023017	1	0.99551	0.623147	
Slk25	C99ZW1	-0.81	-1.46	-0.37	-0.02	-1.38	-1.27	-0.55	-0.18	-0.69	-0.12	-0.08	-1.21	-0.12	-1.13	-0.27	-0.65	-0.18	0.14	0.1225	0.654008	0.72235	0.744314	1	0.99511	0.959371	
Slk26	A24284	-0.14	-1.18	0.33	0.5	-0.66	-0.49	-0.33	0	0	0.8	0.47	0.34	0.08	0.36	0.54	-0.09	0.58	-0.8225	0.36	0.455	0.331419	0.284296	0.1328	1	0.99511	0.992476
Slk3	A0A23BQ1	-0.88	-0.61	-0.28	-0.09	-0.35	-1.09	-0.43	0	-0.09	0.21	-0.4	-0.66	-1.12	0.66	0.07	-0.33	-0.0025	0.23	-0.285	0.939065	0.40803	0.480628	1	0.99511	0.893906	
Slk32c	Q8ZQV4	0.36	-0.24	0.67	0.66	-0.52	0.36	0.79	0.23	0.06	-0.36	0.21	-0.07	-0.34	-0.13	0.05	0.28	-0.0875	-0.4575	-0.3975	0.757299	0.88499	0.711757	1	0.99511	0.763316	
Slk32c	Q91V14	0.45	-0.11	0.41	0.34	0.02	0.23	0.23	0.25	0.42	0.82	0.46	0.62	-0.14	0.5	-0.14	0.1	-0.09	-0.3075	-0.1925	0.62578	0.158745	0.428568	1	0.99511	0.879165	
Slk38	Q7T5E5	0.11	0.1	0.12	0.52	0.45	-0.01	0.32	-1.2	0.58	0.5	0.84	0.73	0.17	-0.37	-1.17	0.57	-0.2075	-0.15	-0.6425	0.534486	0.310227	0.43126	1	0.99511	0.658454	
Slk39	Q5Z1W9	-1.05	-1.06	-0.59	-0.7	-0.52	-0.86	-0.37	-0.77	-1.29	-0.74	-0.68	-1.19	-1	-1.02	-1.18	-0.74	0.22	-0.125	0.135	0.285462	0.58816	0.52456	1	0.99511	0.908107	
Slk4	Q9111	-0.23	-0.52	-0.42	-0.26	0.16	-0.4	0.07	-0.3	-0.42	-0.38	-0.21	-0.11	-0.66	-0.1	-0.61	-0.22	0.24	0.0775	-0.04	0.230379	0.656686	0.850468	1	0.99511	0.976225	
Slm1	P54227	2.6	0.15	0.47	-0.38	-0.5	2.94	0.51	0.13	1.58	-1.31	0.07	2.26	1.78	-0.24	-0.13	0.06	0.305	0.25	-0.0625	0.75099	0.798019	0.93717	1	0.99511	0.989767	
Slm1c	P55821	-0.76	-0.73	0.48	-0.15	-0.55	0.36	0.25	0.45	0.36	0.25	0.45	0.36	0.25	0.45	0.36	0.25	0.45	0.36	0.25	0.45	0.36	0.25	1	0.99511	0.992476	
Slm2	Q70166	4.21	1.09	2.26	0.82	1.71	4.24	2.08	1.03	1.44	1.32	1.84	4.26	1.58	1.03	1.44	1.32	1.84	4.26	1.58	1.03	1.44	1.32	1	0.99511	0.986933	
Slm4	Q50503	1.57	1.74	0.76	0.55	0.85	1.38	1.08	0.38	0.58	0.57	0.72	1.75	0.62	-0.06	0.55	0.64	-0.2325	-0.25	-0.7175	0.509784	0.528632	0.059413	1	0.99511	0.661738	
Slm1c	Q31UX8	-1.67	-2.08	-2.86	-1.33	-1.28	-2.61	-2.93	-2.91	-2.13	-1.54	-2.66	-1.73	-2.29	-1.2	-2.61	-3.24	0.0525	0.47	0.15	0.161237	0.28658	0.775987	1	0.99511	0.966799	
Slom	P54116	-0.52	-1.09	-0.41	0.02	-0.58	-0.31	-0.57	-0.5	-0.72	-0.37	-0.79	-0.85	-0.78	-0.52	-0.72	-0.93	0.01	-0.1825	-0.2375	0.369793	0.502757	0.387979	1	0.99511	0.864251	
Slom2c	Q59J82	0.69	0.12	0.79	0.71	0.99	-0.33	0.29	0.55	0.64	0.92	0.87	0.41	0.79	-0.51	0.55	0.15	-0.4025	-0.0925	0.0075	0.188284	0.634976	0.70289	1	0.99511	0.956859	
Slon2	Q88260	1.29	1.43	0.87	0.31	1.42	1.1	0.47	0.28	1.24	0.59	-0.17	1.24	1.13	1.56	0.79	0.3	-0.1575	-0.27	-0.03	0.656335	0.537286	0.933741	1	0.99511	0.987677	
Slon2c	Q49955	0.61	0.57	0.48	0.15	0.8	0.86	-0.22	0.1	0.29	0.73	-0.29	0.97	-0.05	0.72	-0.06	0.22	-0.0675	-0.225	-0.245	0.813804	0.383498	0.333545	1	0.99511	0.845601	
Slor2a	Q31UU4	0.47	-0.45	1.07	0.57	-0.28	0.46	0.22	0.71	-0.94	0.69	0.9	0.4	-0.97	-0.59	0.58	0.52	0.0125	-0.7425	-0.55	0.578374	0.620206	0.280127	1	0.99511	0.822804	
Slor2b	Q84473	0.96	0.53	-0.4	-0.09	0.87	0.17	-0.02	-0.23	0.66	0.63	0	0.99	1.45	0.06	0.29	-0.1325	0.22	0.37	0.70337	0.575966	0.419236	1	0.99511	0.875558		
Slor2c	Q52122	-1.75	-1.68	-0.31	-0.45	-1.51	-1.68	-1.16	-0.36	-2.17	-1.63	-0.23	-1.39	-1.82	-1.87	-0.41	-0.55	0.12	-0.3075	-0.115	0.812539	0.559313	0.823026	1	0.99511	0.972768	
Slor2d	Q911W1	-0.32	-1.12	-1.15	-1.54	-1.2	-0.61	-1.85	-0.91	-1.63	-1.76	-1.28	-1.58	-0.49	-1.27	-0.68	-1.71	-0.11	-0.53	-0.005	0.756197	0.09122	0.98923	1	0.99511	0.996154	
Slor2e	Q8C079	0.58	0.6	0.59	0.61	0.58	0.63	0.53	0.7	-0.06	0.09	0.73	0.57	-0.49	-0.04	0.35	0.23	0.015	-0.2625	-0.5825	0.913768	0.260301	0.305022	1	0.99511	0.641481	
Slor2f	Q8C9H6	0.03	-0.3	0.26	0.42	-0.19	-0.32	0.31	0.29	0.24	0.55	0.06	-0.09	0.22	0.24	0.48	0.17	-0.08	0.0875	0.175	0.740276	0.1297	0.437047	1	0.99511	0.883161	
Slor2g	Q55106	0.35	0	0.5	0.5	0.23	0.05	0.68	0.56	-0.32	0.18	0.51	0.35	-0.71	-0.01	0.5	0.3	0.0425	-0.1575	-0.3175	0.842312	0.519884	0.390179	1	0.99511	0.834523	
Slor3	Q9R6G2	-0.66	-0.47	-0.19	-0.34	-0.23	-0.83	-0.09	-0.22	-0.16	-0.34	-0.11	-0.94	-0.43	-0.51	-0.51	-0.83	0.0725	-0.2225	-0.405	0.738837	0.433532	0.152731	1	0.99511	0.750422	
Slor3	B2RQ53	0.02	0.23	0.38	0.73	0.08	-0.13	0.98	1	-1.3	-0.09	0.86	-0.13	-1.47	-0.07	0.38	0.28	0.1425	-0.005	-0.56	0.661372	0.269892	0.215979	1	0.99511	0.787447	
Slor3	P54B04-2	0.93	0.5	0.52	0.6	0.73	0.83	0.61	0.63	0.53	0.69	0.66	0.81	0.01	0.96	0.19	0.25	0.0625	0.035	-0.29	0.7096	0.846499	0.285541	1	0.99511	0.822669	
Slr	P50427	-0.15	-0.46	-0.08	-0.14	-0.11	-0.33	0	0.4	-0.02	-0.81	-0.16	0.04	-0.17	-0.08	0.14	0.19	-0.2125	-0.15	0.33	0.930403	0.525581	0.331146	1	0.99511	0.845051	
Slr3a	P46978	-0.38	-0.61	-0.64	-1.15	0.56	0.08	0.43	-0.26	-1.58	-0.62	-0.61	-0.25	-0.32	-1.23	1.27	1.13	0.8975	-0.07	0.9075	0.0676	0.399243	0.139023	1	0.99511	0.73493	
Slr3b	A0A0R4J0C	-0.5	-0.45	-0.53	-0.56	0.19	-0.4	-0.34	-0.74	0.35	-1.5	-0.69	-0.34	1.14	0.03	0.68	0.5	0.2775	-0.035	1.0975	0.236432	0.925162	0.002243	1	0.99511	0.419079	
Slr3b	Q9VUW1	0.29	-0.08	-0.53	-0.29	-0.02	0.53	-0.47	-0.46	0.26	0.03	-0.44	0.38	0.15	-0.35	-0.31	-0.45	0.0475	0.21	-0.0875	0.871106	0.44076	0.78976	1	0.99511	0.958635	
Slr3b	AD1ABD5B	0.39	0.55	0.46	0.55	0.5	0.5	0.29	0.67	0.09	0.15	0.03	0.15	0.03	0.15	0.03	0.15	0.03	0.15	0.03	0.15	0.03	0.15	1	0.99511	0.958635	
Slr3b	Q9R60	0.52	0.53	0.49	0.32	0.83	0.55	0.64	0.71	0.13	-0.29	0.7	0.84	0.47	0.18	0.6	0.56	0.2175	-0.12	-0.0125	0.714446	0.668261	0.946774	1	0.99511	0.993236	
Slr3b	Q8R9V5	-0.16	0.16	0.26	0.11	0.46	-0.12	0.28	0.21	-0.4	-0.31	0.19	0.03	-0.4	-0.17	0.22	0.28	0.115	-0.215	-0.11	0.548547	0.319275	0.634281	1	0.99511	0.941132	
Slr3b	Q90044	1.14	0.87	-0.4	-0.75	1.84	1.39	-0.1	-0.73	1.29	0.09	-0.51	1.46	1.24	1.32	0.08	0.385	0.3875	0.505	0.578374	0.551024	0.350242	1	0.99511	0.853281		
Slr3b	Q8VDS3-8	-0.18	-0.45	0.46	0.55	0.62	0.4	0.7	0.62	0.48	0.79	0.49	0.25	0.85	1.55	1.29	0.15	0.1475	-0.075	0.72	0.703039	0.647781	0.883237	1	0.99511	0.927588	
Slr3b	Q53526	1.66	2.13	2.12	1.23	2.19	1.43	1.45	1.78	0.58	1.04	1.84	1.64	1.18	0.79	1.22	1.75	-0.0725	-0.38	-0.89	0.797165	0.71928	0.68507	1	0.99511	0.665034	
Slr3b	PE1264	1.59	1.49	1.84	2.03	1.47	1.35	1.62	1.74	1.33	1.3	1.6	1.44	0.83	1.47	1.38	1.31	-0.1925	-0.32	-0.49	0.322162	0.125996	0.095609	1	0.99511	0.661738	
Slr3b	Q31T55	0.99	1.08	0.92	0.57	0.63	0.53	1.47	0.98	0.65	1.44	1.15	1.34	0.58	0.73	1.28	1.25	0.0125	0.255	0.07	0.960316	0.298338	0.776615	1	0.99511	0.967045	
Slr3b	AD1ABD5B	-0.18	-0.42	0.6	0.75	-0.23	-0.09	0.61	0.85	0.27	0.54	0.25	-0.03	-0.39	0.11	1.19	0.81	0.0975	-0.14	0.2425	0.793008	0.700063	0.578713	1	0.99511	0.927283	
Slr4	P70542	0.52	1.06	1.16	1.89	0.76	0.37	0.88	0.57	1.88	0.47	0.38	0.94	0.98	1.04	0.98	0.4	0.1325	0.221751	0.752362	0.723854	0.194	1	0.99511	0.939588		
Slr5	Q8K160	-0.07	0.28	0.11	-0.02	0.5	-0.28	0.41	-0.18	-0.13	0.06	-0.13	-0.05	0.09	0.4	0.22	0.17	0.0375	-0.0725	0.145	0.871968	0.700293	0.442317	1	0.99511	0.883549	
Slr5	Q9JKK1-2	0.23	0.55	0.7	0.98	0.74	-0.03	0.84	0.91	0.55	0.86	0.58	0.43	0.4	0.98	0.52	0.62	0	-0.01	0.015	1	0.963503	0.949982	1	0.99511	0.992476	
Slr5	Q8H840	0.54	0.54	0.4	0.42	0.59	1.01	0.29	0.53	-0.11	0.65	0.73	-0.07	-0.4	0.04	0.36	0.13	-0.125	-0.4925	0.530945	0.990491	0.045126	1	0.99511	0.958454		
Slr5	Q8R9B3	-1.12	-1.41	-1.1	-1.19	-0.57	-1.27	-1.45	-1.61	-1.08	-1.04	-0.04	-0.11	-0.6	-0.1	-0.11	-0.15	0.04	0.62	0.635819	0.535948	0.13071	0.52578	1	0.99511	0.972578	
Slr5b1	Q08599	0.41	0.31	1.17	1	0.55	1.73	1.43	1.12	0.11	0.5	1.1	1.27	-0.4	-0.29	0.71	1.11	0.2325	-0.0725	-0.69	0.489137	0.521286	0.128303	1			

Tacrl	P30548	1.66	0.56	0.12	0.62	-0.34	-0.42	0.43	0.19	0.54	0.93	-1.17	1.46	1.38	0.83	1.4	-0.02	-0.775	-0.3	0.1575	0.061013	0.620131	0.72339	1	0.96551	0.958398	
Tadsl	O9P1M9	-1.34	-2.12	-1.24	-1.37	0.19	-0.41	-0.62	-1.42	-0.44	-0.52	-1.35	0.01	-2.42	-0.07	-0.24	-0.44	0.9325	0.9425	0.725	0.02899	0.120649	0.202477	1	0.96551	0.782817	
Taf1	S4I1B3	3.07	4.43	0.28	0.64	2.36	3.05	1.36	0.42	1.03	0.36	0.09	1.36	1.09	1.03	0.82	0.89	-1.1075	-0.895	-1.6525	0.428206	0.48287	0.15277	1	0.96551	0.731223	
Taf10	Q8K0X5	-1.41	-1.19	-0.68	-0.65	-0.9	-1.35	-0.16	-0.62	-0.59	0.2	-0.82	-0.69	-0.47	0.42	-0.83	-0.06	0.225	0.5075	0.7475	0.472778	0.121693	0.704582	1	0.96551	0.658454	
Taf11	O9XJ1K	-0.08	-0.23	-2.14	-2.67	-0.98	0.17	-2.76	-1.71	-1.18	-0.56	-1.53	-0.18	0.39	-3.42	-1.23	-0.19	-0.44	0.1975	-0.1325	0.960745	0.532668	0.884913	1	0.96551	0.937967	
Taf15	Q8BQ46	2.54	-0.29	2.75	-1.62	-0.04	2.56	3.57	0.97	0.69	-0.83	2.18	2.13	1.77	-0.2	5.53	4.58	0.92	0.1975	2.075	0.453815	0.864309	0.191772	1	0.96551	0.777117	
Taf2	B9IX5X	0.42	-0.22	0.44	-0.08	-0.26	0.17	0.33	-0.22	-0.16	-1.03	-1.01	0.05	0.73	1.39	-0.47	0.14	-0.02	-0.05	0.445	0.052761	0.937802	0.121849	1	0.96551	0.840788	
Taf5	F8VPY2	-0.34	-1.34	-0.26	0.27	-1.84	-0.14	-0.67	0.28	0.38	-1.32	0.38	-0.89	1.35	-2.04	0.1	0.03	-0.175	0.055	0.2775	0.738573	0.914381	0.695284	1	0.96551	0.955729	
Taf5	Q91WQ5	-0.98	-0.74	-1.05	-0.78	-1.18	0.49	-0.7	-0.06	1.37	-0.67	0.44	0.28	3.28	-2.33	1.17	0.95	0.37	1.0225	1.655	0.432065	0.042366	0.137365	1	0.96551	0.732462	
Taf6	Q3Z0T0	1.24	1.62	0.23	-0.31	1.21	1.78	-1.22	-0.21	0.81	0.57	0.64	0.9	0.93	1.16	0.81	0.34	-0.305	0.035	0.115	0.679619	0.934705	0.799013	1	0.96551	0.969791	
Taf6	K3W4L1	0.3	0.23	-0.42	-0.22	-0.32	-0.45	0.40	-0.12	0.35	-0.42	-0.59	0.55	0.11	0.73	1.35	1.75	0.02	0.11	0.31	0.389466	0.527818	0.155651	1	0.96551	0.75103	
Taf8	O9EQH45	0.04	-1.32	3.61	-2.99	-0.18	1.25	1.54	-0.67	0.27	2.57	0.61	0.79	1.42	3.22	1.37	0.22	0.3675	0.885	0.42859	0.765685	0.465477	1	0.96551	0.688327		
Taf9	Q8V33	-0.56	-1.5	-1.99	-1.99	-1.19	-1.25	-2.33	-1.69	-1.07	-1.31	-1.71	-1.11	-0.01	-0.32	-1.13	-1.09	-1.05	0.21	0.8725	0.794598	0.561707	0.063056	1	0.96551	0.66433	
Taf10	Q7TPG8	-0.62	-3.19	-2.81	-2.59	-2.69	-1.49	-1.86	-2.77	-3.09	-1.88	-2.16	-1.87	-2.23	-3.13	-2.64	-1.83	0.6	0.5525	0.345	0.099445	0.111753	0.294487	1	0.96551	0.825612	
Taf11	O91WES9-2	-0.16	-0.69	-0.43	-0.29	-1.95	0.24	-2.28	-1.53	2.93	-2.17	-1.22	-0.36	3.55	-1.78	-0.97	-0.32	-0.8975	0.1875	0.5125	0.088878	0.851427	0.631001	1	0.96551	0.941132	
Tafazun	I3J592	0.42	0.42	0.48	0.38	-0.33	0.55	0.55	0.27	-0.35	0.18	0.91	-1.19	-0.55	-0.2	0.15	-0.025	-0.0575	-0.875	0.450201	0.844803	0.016385	1	0.96551	0.589387		
Tafgn	P3J7804	-4.11	-4.91	-5.23	-1.65	-4.63	-4.46	-4.7	-5.53	-4.91	-4.25	-5.16	-4.05	-4.03	-5.32	-5.04	-5.94	0.02	0.2875	-0.2325	0.952832	0.479042	0.066147	1	0.96551	0.932425	
Tafgn2	Q9WV44	-2.39	-3.17	-2.28	-2	-2.61	-2.59	-2.13	-2.2	-3.26	-1.52	-1.93	-2.48	-2.68	-2.75	-1.97	-2.35	0.0775	0.1625	0.0225	0.784331	0.70514	0.943097	1	0.96551	0.935159	
Tafgn3	Q9R1Q8	0.74	0.03	-0.5	0.03	0.39	0.46	-0.38	0.05	0.14	-0.78	-0.18	0.71	-0.08	-0.06	-0.62	-0.52	0.055	-0.1025	-0.395	0.860603	0.791043	0.167607	1	0.96551	0.787447	
Tafidsl	A041B0G8	-2.34	-2.42	-1.94	-1.98	-2.22	-2.6	-1.71	-2.21	-2.12	-0.74	-1.71	-1.96	1.4	1	1.79	-1.98	-0.015	0.5775	0.3775	0.040426	0.131052	0.127695	1	0.96551	0.723391	
Tafmain	O9JIA5	0.23	-0.2	0.92	0.73	-0.34	0.18	0.28	0.38	0.82	1.33	1.04	1.4	1.47	0.07	0.17	0.31	-0.295	0.4125	0.085	0.335721	0.25865	0.830816	1	0.96551	0.973939	
Tafm1	G5E881	0.8	1.23	0.34	0.23	0.78	0.61	0.26	0.01	0.54	0.52	0.23	0.39	1.1	0.58	0.12	-0.27	-0.24	-0.23	-0.2675	0.417432	0.386881	0.473231	1	0.96551	0.891467	
Tanc1	O9FA0F	0.46	-0.62	-0.32	-0.34	-0.35	0.46	-0.63	-0.35	0.05	-0.21	-0.27	0.42	0.15	-0.6	-0.77	0.34	-0.0125	0.2025	-0.185	0.969058	0.490208	0.560563	1	0.96551	0.919405	
Tanc2	A2A999-2	-0.07	0.18	0.77	0.63	0.02	0.11	0.63	0.68	0.4	0.72	0.96	0.37	0.66	0.38	0.83	0.77	0.0475	0.235	0.2625	0.05	0.377252	0.279683	1	0.96551	0.822084	
Tanc2	F6VC42	4.51	4.68	5.16	2.26	2.7	5.12	2.91	5.54	1.87	0.38	6.96	4.49	5.76	-3.23	7.83	5.86	-0.585	-0.7275	-0.9225	0.451975	-0.161	0.675183	1	0.96551	0.952944	
Tanc2	A041A0J0	-0.22	0.77	-0.77	-0.62	0.72	-0.42	-0.23	-0.3	0.25	0.57	0.08	0.15	0.61	0.86	-1.04	-0.56	0.1525	0.4725	0.1775	0.710031	0.206046	0.738836	1	0.96551	0.958796	
Tanc2	O9Q2K2	0.19	2.4	-1.07	-0.83	0.03	0.84	-0.45	-1.05	-1.43	-1.42	-0.96	-1.18	2.86	-1.4	-0.78	-0.83	-0.33	-0.455	-0.21	0.689974	0.618895	0.851373	1	0.96551	0.976225	
Tanc2	Q8B7N1	-1.15	-1.06	-1.19	-1.05	-0.8	-1.27	-0.92	-1.05	-1.10	-0.99	-1.11	-1.03	-1.43	-0.74	-1.09	-1.03	0.1025	0.09	0.04	0.537331	0.579781	0.848561	1	0.96551	0.976225	
Tang66	Q8C352-2	0.76	0.55	0.43	0.6	0.08	0.76	0.35	0.37	0.92	1.19	0.7	0.41	0.65	0.1	0.31	0.19	-0.06	0.04	0.326595	0.768064	0.107786	1	0.96551	0.676462		
Tank	A2A7R8	0.05	-0.66	0.23	0.66	0.26	-1.43	-0.26	0.02	0.32	0.93	0.23	-0.46	0.18	1.14	0.38	-0.26	-0.325	0.185	0.29	0.33105	0.629752	0.463285	1	0.96551	0.888267	
Tank1	O5ZF28	0.89	0.65	0.53	0.63	0.78	0.9	0.94	0.89	0.7	0.77	0.62	0.7	0.21	0.8	0.76	0.46	0.1775	0.0325	-0.1175	0.268718	0.892184	0.585515	1	0.96551	0.928178	
Tank2	Q6Q29-2	1.11	0.6	1.37	1.29	0.29	0.91	1.62	1.57	0.97	1.24	1.48	0.81	0.64	1.5	1.12	1.01	0.005	0.0235	-0.025	0.98844	0.896734	0.26559	1	0.96551	0.989128	
Tank3	Q8BYC5	-0.57	-0.58	-0.57	-0.57	-0.41	-0.85	-1.67	-0.89	-0.55	-0.45	-0.76	-1.86	-0.45	-0.22	0.55	-0.225	-0.1725	0.2108	0.1725	0.2108	0.366455	0.467318	1	0.96551	0.958125	
Taybp	Q3TCU5	0.29	-0.41	-0.17	0.14	0.38	-1.32	-0.55	0.06	1.15	0.09	-0.34	-0.48	0.92	0.99	-0.66	1.07	-0.32	0.1425	0.6175	0.41515	0.71254	0.169401	1	0.96551	0.760553	
Taybp1	Q8V031	0.22	0.47	-0.35	0.31	-0.57	0.71	-1.48	-0.03	1.07	-0.24	-0.88	-0.15	2.77	-0.93	0.76	0.29	-0.505	-0.32	0.1255	0.56	0.288873	0.616799	0.442311	1	0.96551	0.883549
Taybp1	Q4V8D2	0.37	0.52	0.66	0.36	1.09	0.36	0.54	0.52	0.47	0.14	0.56	0.35	0.38	0.98	0.92	1.04	-0.15	0.1275	0.3525	0.471203	0.584332	0.134588	1	0.96551	0.731223	
Taybp2	I2D2B2	0.22	0.26	0.44	0.27	0.69	0.32	1.39	0.42	0.34	0.02	0.7	0.6	0.42	0.83	0.54	0.3	0.075	0.04	0.59	0.643395	0.066254	0.18336	1	0.96551	0.712775	
Tayp1	Q92JF2	-1.14	-3.4	-1.87	-1.88	-2.92	-2.1	-2.06	-1.83	-3.21	-1.32	-1.78	-2.97	-1.99	-3.43	-1.09	-2.16	-0.155	-0.2475	-0.095	0.752818	0.683338	0.87793	1	0.96551	0.979626	
Tans1	Q900R2	-1.07	-1.07	-1.19	-1.48	-0.93	-1.13	-0.99	-1.45	-1.18	-1.38	-1.26	-1.05	-1.12	-0.71	-1.35	-1.49	0.0775	-0.01	0.035	0.684438	0.956034	0.882417	1	0.96551	0.979767	
Tans2	Q3UQ84	0.93	0.91	1.28	0.92	0.92	0.92	1.66	1.39	0.61	0.28	1.41	0.55	0.92	1.01	1.69	1.69	0.2125	-0.2975	0.3175	0.358432	0.293936	0.293964	1	0.96551	0.794419	
Tans2	Q8BYU2	-1.36	-2.06	-1.44	-1.23	-1.78	-1.53	-1.43	-1.3	-1.33	-0.62	-1.22	-1.65	-1.10	-1.44	-1.19	-1.56	0.0125	0.3175	0.02	0.956598	0.29396	0.395159	1	0.96551	0.866783	
Tasor	Q6Q29-2	0.01	0.57	-0.27	-0.34	0.84	0.01	-0.04	-0.04	-0.59	-0.02	0.51	0.24	0.47	-0.4	-0.3	0.52	-0.1	0.751291	0.02	0.751291	0.354248	0.741526	1	0.96551	0.945796	
Tasor2	O5DTT3	-1.9	-2.24	-0.41	-0.1	-1.99	-1.98	-0.61	0.22	-2.02	0.13	0.52	-2.43	-1.53	-1.43	-0.39	0.01	0.325	0.16	0.275	0.688848	0.849495	0.661858	1	0.96551	0.949645	
Tatdn1	Q6P8M1-2	-0.41	-0.13	-0.25	-0.43	-0.02	-0.36	-0.13	-0.22	-0.37	0.08	-0.49	-0.4	-0.33	-0.06	-0.36	-0.21	0.1225	-0.03	0.005	0.456308	0.867573	0.724406	1	0.96551	0.958398	
Tatdn1	Q3UJC1	0.16	0.49	0.72	0.83	0.49	0.36	0.42	0.9	0.42	0.81	0.51	0.33	0.46	0.52	0.65	0.66	-0.0075	-0.0325	0.0225	0.973736	0.881941	0.915599	1	0.96551	0.968556	
Tatdn2	O9B0G9	0.29	0.25	0.1	0.84	0.67	0.32	1.39	0.42	0.34	0.02	0.7	0.6	0.42	0.83	0.54	0.3	0.075	0.04	0.59	0.643395	0.066254	0.18336	1	0.96551	0.712775	
Tatdn1	Q6Q949	1.14	1.85	0.94	0.87	1.14	1.29	0.43	0.72	1	-0.41	0.68	0.95	0.88	1.07	0.07	0.05	-0.305	-0.44	-0.57	0.318966						

Thoc1	Q8R3N6	0.36	-0.97	-1.75	-2.22	-0.97	0.66	-1.16	-1.36	-0.56	-1.53	-1.92	-0.81	0.64	-0.3	-0.07	-0.76	0.4375	-0.06	1.0225	0.51424	0.919291	0.107097	1	0.99675	0.704241	
Thoc2	B1A26	-2.09	-0.86	-1.32	-1.31	-1.13	-2.27	-1.45	-1.15	0.59	-1.08	-1.65	-2.54	1.55	0.18	-0.36	-0.78	-0.105	0.225	1.5425	0.767405	0.728021	0.015899	1	0.99651	0.588387	
Thoc3	Q8VE8D	-0.19	-1.16	-1.84	-0.91	-1.75	-1.09	-1.24	-1.98	-1.2	-1.87	-1.54	-2.1	-1.57	-0.99	-0.07	0.3	-0.1	0.3375	0.218871	0.676946	0.155027	1	0.99651	0.750763		
Thoc5	AD0K0R4U0	-1.16	-1.78	-1.26	-1.01	-1.87	-1.29	-0.6	-0.56	-1.5	-0.69	-1.41	-1.92	-0.06	-2.5	0.17	-0.61	0.2225	-0.0775	0.5525	0.520846	0.801964	0.351856	1	0.99651	0.854508	
Thoc6	D312312	-1.22	-1.93	-1.37	-1.25	-1.92	-1.97	0.13	-0.58	-1.71	-0.77	-1.42	-1.93	-0.85	-0.57	0.26	-0.28	0.3575	-0.015	1.0825	0.482155	0.960827	0.050714	1	0.99651	0.552614	
Thoc7	AD0A28BY0	-1.26	-0.98	-1.49	-1.16	-2.48	-2.14	-1.6	-1.29	-0.11	-0.71	-1.88	-1.25	-0.7	-1.78	-0.34	-0.7	-0.655	0.235	0.6825	0.046445	0.539824	0.180707	1	0.99651	0.775542	
Thop1	AD0K0R4ZV	-1.7	-1.11	-0.55	-0.98	-0.96	-1.53	-0.73	-1.03	-1.5	-0.83	-0.94	-1.04	-1.4	-0.95	-1.34	-1.72	-0.98	-0.1	-0.4	0.868012	0.810607	0.117829	1	0.99651	0.718609	
Thra	AD0K0R41J8	-1.02	-0.82	-1.37	-1.15	-0.79	-0.88	-1.12	-1.19	-0.59	-1.19	-1.58	-1.07	-0.05	-0.62	-1.41	-0.4	0.095	-0.0175	0.495	0.617559	0.945331	0.159017	1	0.99651	0.754942	
Thrap3	C56926	1.59	0.69	0.6	0.49	-0.76	0.7	-0.34	0.74	0.05	0.43	0.38	0.09	0.82	-0.52	1.01	-0.14	-0.7575	-0.605	-0.55	0.10233	0.057204	0.129241	1	0.99651	0.787447	
Thrd7a	EP9PW02	0.28	0.23	-0.21	0.08	0.14	0.24	0.03	-0.1	0.61	0.51	-0.02	0.57	0.1	0.15	0.21	0.17	0.0275	0.4375	0.27	0.884166	0.079843	0.21102	1	0.99651	0.786269	
Thrd7b	Q8F94U0	-1.29	-1.11	-1.11	-1.05	-0.88	-0.91	-1.15	-0.85	0.86	-1.2	-0.87	-1.54	-2.1	-1.57	-0.99	-0.07	0.3	-0.1	0.3375	0.531557	0.994449	0.807438	1	0.99625	0.807334	
Thrd8	Q8U13	-0.83	-0.67	-0.75	-0.47	-0.96	-1.14	-0.77	-0.58	-1.11	0.36	-0.57	-0.77	1.1	-0.82	-0.9	-1.08	-0.1875	0.11325	0.295	0.41182	0.666213	0.139002	1	0.99651	0.734983	
Thrumpd1	Q9J936	-3.99	-4.11	-3.92	-4.33	-3.91	-4.08	-3.9	-4.62	-4.29	-1.78	-4.05	-3.74	-3.54	-3.14	-4.25	-4.7	0.04	0.6225	0.18	0.853517	0.264379	0.616597	1	0.99651	0.937079	
Thrumpd3	Q9J770	-0.65	-0.6	-0.54	-0.78	-0.77	-0.46	-0.64	-0.68	-0.87	-0.5	-1.08	-0.74	-1.17	-1.74	-0.64	-4.9	0.005	-0.155	-0.1175	0.973962	0.422272	0.733422	1	0.99651	0.958635	
Thy1	AD0A115S0	0.81	0.76	1.05	1.26	0.84	0.61	0.93	1.3	0.85	1.45	0.89	0.73	0.35	1.37	0.83	0.96	0.10	-0.025	0.81327	0.965264	0.278832	1	0.99675	0.958635		
Thy1a	Q9Y1Y3	-4.7	-5.5	-5.03	-5.17	-4.53	-5.49	-5.4	-5.89	-5.88	-5.24	-4.49	-3.34	-3.8	-4.73	-5.98	-0.115	0.83	0.7375	0.77754	0.150373	0.227473	1	0.99651	0.787447		
Thy1a	P52912	-2.32	-1.46	-4.51	-3.23	-4.57	-3.28	-1.55	-4.16	-0.12	-1.65	-2.45	-3.92	0.01	-1.18	-4.48	-0.29	-0.235	1.58	1.395	0.670733	0.100143	0.182516	1	0.99651	0.776002	
Thy1a	Q8C15	-1.57	-0.55	-2.23	-2.68	-0.96	-1.66	-1.81	-1.91	-0.82	-1.91	-2.1	-0.69	-0.97	-0.93	-1.18	-2.28	0.1725	0.3775	0.4175	0.175955	0.298389	0.431656	1	0.99651	0.879165	
Thy1a	Q921W12	-1.44	-2	-1.52	-1.79	-1.62	-1.28	-1.5	-1.55	-1.75	-1.52	-1.55	-1.73	-1.94	-1.72	-1.39	-2.06	0.2	0.05	-0.09	0.300606	0.797634	0.704151	1	0.99651	0.957084	
Thy1a	G3JW6G2	-0.03	-0.14	-0.2	-0.11	-0.65	-0.01	-0.11	-0.11	0.63	0.35	-0.24	0.04	1.08	-0.13	-0.05	-0.15	-0.15	0.3	0.2925	0.551618	0.21063	0.360602	1	0.99651	0.856915	
Thy2	Q62P33-3	1.19	1.15	-2.37	-0.07	-0.32	0.88	-0.45	0.46	2.33	0.99	0.53	1.93	3.12	0.92	0.95	0.11	0.1325	1.435	1.265	0.869257	0.115772	0.203624	1	0.99651	0.782817	
Thy2	Q62P33-2	-0.19	-0.5	-0.25	-0.17	-0.45	-0.53	-0.24	0.14	-0.48	-0.14	-0.1	0.25	0.03	0.3	-0.61	-0.31	-0.0625	0.4	0.13	0.174963	0.083626	0.602078	1	0.99651	0.930802	
Tgar	Q8B7A9	0.63	0.19	-1.2	-1.31	0.5	0.11	-0.86	-1.19	0.26	-0.77	-1.09	0.57	-1.15	0.96	-1.69	-1.72	0.0625	0.165	-0.1275	0.913602	0.776407	0.85604	1	0.99651	0.976225	
Thm10	P62073	0.15	0.54	0.5	0.76	0.65	0.03	0.14	0.57	-0.04	1.07	0.51	-0.04	-0.16	1.11	-0.03	0.31	-0.155	-0.1125	-0.18	0.505051	0.708053	0.575721	1	0.99651	0.926728	
Thm11	Q9V9V6	1.08	0.69	-1.43	-1.32	0.61	1.3	-1.24	-1.41	-0.35	-0.56	-1.2	1.12	-1.04	-1.31	-1.72	-1.28	0.06	-0.0025	-1.0925	0.945329	0.977335	0.103281	1	1	0.700896	
Thm13	P62075	0.42	0.16	0.35	0.1	0.09	0.51	0.18	0.16	-0.46	0.31	0.39	0.25	-0.45	0.15	0.12	0.03	-0.0225	-0.135	-0.365	0.89581	0.575041	0.102796	1	0.99651	0.700625	
Thm13b	Q9Z0V8	-0.76	-0.12	-0.78	-0.31	-0.09	-0.49	-0.4	-0.28	0.1	-0.95	0.07	-0.41	-0.09	0.26	-0.12	0.36	0.1775	0.195	0.14	0.140106	0.523743	0.711973	1	0.99651	0.958014	
Thm17b	Q9Z0V7	0.09	0.66	0.83	0.68	0.08	-0.48	0.11	0.3	0.93	0.38	0.28	-0.07	0.76	1.21	0	0.13	-0.33	-0.85	-0.04	0.140629	0.905967	0.903291	1	0.99651	0.988587	
Thm21	Q8C4A5	-0.61	-0.81	0.69	0.72	0.45	0.11	-0.41	-0.01	-0.46	0.2	-0.47	0.46	0.39	0.59	-0.4	0.21	-0.2	0.17	0.24	0.47403	0.566393	0.36582	1	0.99651	0.91282	
Thm22	Q8C4B5	0.16	0.32	-1.54	-1.36	0.26	0.28	-1.59	-1.59	-0.47	-0.98	-1.4	0.47	-0.15	0.65	-1.45	-1.62	-0.055	-0.245	-0.0375	0.933543	0.959697	0.594498	1	0.99651	0.992482	
Thm23	AD0A21B54	0.01	0.77	0.61	0.55	0.59	0.2	0.41	0.45	1.31	1.27	0.21	0	0.79	1.11	-0.03	0.74	-0.0725	0.2125	0.1675	0.732026	0.569763	0.585224	1	0.99651	0.928105	
Thm29	Q8BQZC	-0.09	-0.13	-0.27	-0.23	0.38	0.63	0.08	-0.01	-1.05	-0.24	-0.08	-0.13	-1.47	0.01	-0.64	-0.26	0.45	-0.195	-0.41	0.04007	0.445924	0.233054	1	0.99651	0.789894	
Thm44	C358517	-0.14	0.04	-0.53	-0.33	0.57	0.49	0.34	0.2	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	1	0.99651	0.959242	
Thm50	Q9D880	0.74	0	0.28	0.25	-0.49	1.17	0	0	1.01	0.42	-0.22	0.62	1.18	-0.01	-0.26	-0.36	-0.0975	0.25	-0.18	0.780008	0.333849	0.635684	1	0.99651	0.9419	
Thm5a1	Q9VWA2	0.07	0.6	0.73	-0.41	0.51	-0.04	-0.53	-0.74	-0.52	-0.78	-0.56	0.1	-0.97	-0.34	-1.53	-0.7	-0.0825	-0.3225	-0.7675	0.828905	0.357407	0.066588	1	0.99651	0.664936	
Thm5B	P62077	-0.52	-0.62	-1.1	-0.8	-0.94	-0.05	-1.86	-1.62	-0.74	-2	-1.48	-0.41	-0.2	-1.55	-1.87	-1.74	-0.3575	-0.3975	-0.48	0.383777	0.298284	0.132475	1	0.99651	0.840788	
Thm5	Q9VWV8	-0.61	-0.22	-0.21	-0.3	-0.37	-0.4	0.33	0.09	-1.07	0.05	-0.22	-0.33	-0.08	-0.18	-0.07	-0.15	-0.175	-0.1675	0.31	0.959479	0.644656	0.209927	1	0.99651	0.939716	
Thm6d1	Q8BULY5	0.14	0.07	0.12	-0.27	-0.42	0.48	-0.1	0.27	1.4	0.46	0.13	-0.1	1.57	0.98	-0.23	0.36	-0.0925	-0.3295	0.52	0.682485	0.342597	0.195295	1	0.99651	0.78004	
Thmp2	P25785	0.71	0.4	0.94	1.26	-0.1	1	1.15	1.57	0.11	1.43	0.97	0.65	0.33	0.27	2.1	1.54	0.0775	0.3975	0.2325	0.838259	0.909354	0.616006	1	0.99674	0.93691	
Thmp1	Q9J9R5	-1.22	-2.15	-2.7	-2.76	-1.7	-1.29	-1.84	-1.36	-0.92	-2.38	-0.3	-1.56	-0.31	-2.02	-2.44	-2.72	0.21	0.1675	0.33	0.674546	0.771632	0.576027	1	0.99651	0.926728	
Tgr1	Q8BHS8	0.28	0.38	-0.15	0.04	-0.45	0.06	0.17	0.8	0.18	-0.03	-0.29	1.02	1	-0.35	-0.38	-0.98	-0.17	0.18	0.1925	0.4	0.49397	0.631722	1	0.99651	0.941122	
Tgr2	B9FHJ3	0.68	0.91	0.77	0.66	0.77	0.6	0.7	0.54	1.07	0.3	0.54	1.07	0.3	0.54	1.07	0.3	0.54	1.07	0.3	0.54	1.07	0.3	0.54	1	0.99651	0.941122
Tgr3	AD0A32WC	1.68	1.57	1.62	1.3	1.21	1.22	1.16	0.97	1.07	1.35	1.41	1.66	0.98	0.51	1.5	1.35	-0.4025	-0.17	-0.475	0.933086	0.401235	0.109798	1	0.99651	0.709835	
Tgr5	Q9R088	0.47	0.38	0.06	0.25	0.56	0.02	0.63	0.32	0.46	0.03	0.24	0.29	-0.36	0.71	-0.38	-0.11	0.0925	-0.035	-0.325	0.642578	0.91899	0.277156	1	0.99651	0.822084	
Tkfc	Q8VC30	-0.45	-0.26	-0.22	-0.04	-0.05	-0.17	-0.1	-0.01	-0.32	0	-0.08	-0.25	-0.51	-0.56	-0.27	-0.44	0.16	0.08	-0.2025	0.327799	0.659591	0.294751	1	0.99651	0.825612	
Tk	P40142	0.84	-0.45	-0.43	-0.01	0.18	0.45	0.17	0.52	-1.67	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	0.25	0.532408	0.891332	0.309716	1	0.99651	0.978165	
Tkcl	Q9Y176	-0.97	-0.2	-0.37	-1.19	1.08	-0.46	0.85	-0.14	0.1	-0.94	-0.28	-0.82	0.45	2.09	-0.88	0.11	0.915	0.9975	1.025	0.707477	0.798438	0.131756	1	0.99651</		

Item#411	Q90BUI2	-0.7	-0.74	-0.7	-0.56	-0.6	-0.28	0.51	-0.33	-0.51	-1.72	0.27	-0.06	-0.52	-0.13	-0.66	0.82	0.5	0.17	0.5525	0.07525	0.683754	0.12823	1	0.99551	0.723655
Item#412	Q90B51	0.42	0.68	0.36	0.44	0.58	0.27	1.04	0.31	-0.42	-0.01	0.36	0.57	-0.26	0.28	0.51	0.73	0.075	-0.35	0.155	0.729151	0.18799	0.549277	1	0.99511	0.912538
Item#413	Q90J61	0.28	0.77	0.64	0.44	1.38	0.68	0.19	0.21	-1.15	-1.56	0.55	-0.67	-0.22	-0.37	0.86	0.31	0.0025	-0.905	-0.9975	0.781861	0.12184	0.27717	1	0.99511	0.787447
Item#414	Q90M50	-2.46	-3.18	-2.77	-2.08	-1.16	-1.72	-3.22	-2.25	-0.6	-2.44	-2.66	-1.22	-2	-2.29	-2.43	0.2575	0.635	0.4125	0.563842	0.216479	0.1584	1	0.99511	0.753473	
Item#415	Q90L61	0.17	1.12	1.15	0.55	0.29	0.65	-0.99	-0.08	0.58	0.01	0.07	0.52	0.91	-0.85	0.63	0.41	-0.78	-0.4525	-0.4725	0.078647	0.143756	0.231127	1	0.99511	0.825497
Item#416	Q90T12	-1.49	-1.19	-0.77	-0.71	-1.6	-1.51	0.61	-0.08	-1.44	-2.25	-1.14	-1.37	-1.41	-1.21	-0.19	-0.44	0.5725	-0.0825	0.4075	0.328442	0.865397	0.21329	1	0.99511	0.840101
Item#417	Q88X51	-0.94	-0.64	-0.56	-0.39	-0.62	-0.48	0.01	0.32	-0.55	-0.55	-0.39	0.17	0.9	-0.02	-0.58	-0.44	0.175	0.39	0.0525	0.457294	0.214176	0.146848	1	0.99511	0.970225
Item#418	Q93TW9	-0.23	0.04	0.02	-0.31	-0.48	-0.13	0.43	-0.46	-0.23	-0.12	0.06	-0.08	-0.12	0.11	0.26	0.21	0.26	0.0225	0.23	0.306553	0.898129	0.254584	1	0.99511	0.809524
Item#419	Q93Z08	1.53	0.85	0.19	0.45	1.89	2.99	0.41	1.05	1.09	0.43	2.27	1.87	1.66	0.61	0.25	0.32	0.83	0.66	-0.17	0.174333	0.185266	0.176109	1	0.99511	0.958106
Item#420	Q88X00	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#421	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#422	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#423	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#424	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#425	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#426	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#427	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#428	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#429	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#430	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#431	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#432	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#433	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#434	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#435	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#436	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#437	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#438	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#439	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#440	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#441	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#442	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#443	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#444	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#445	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#446	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#447	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#448	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#449	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#450	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#451	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#452	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#453	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#454	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#455	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#456	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3	0.23	0.33	0.71	0.49	0.33	0.11	0.24	0.45	0.57	-0.005	0.1125	-0.01	0.979708	0.530002	0.958638	1	0.99511	0.992636
Item#457	Q94V63	0.2	0.32	0.46	0.43	0.19	0.67	0.3																		

Trim24	Q64127	-0.57	-1.22	-1.2	-1.77	-2.66	-0.58	-2.39	-1.53	-0.41	-0.53	-1.54	-0.69	0.14	-1.52	-0.38	-1.57	-0.6	0.3975	0.3575	0.241097	0.27135	0.447069	1	0.995511	0.884817
Trim25	Q61310	-0.39	-0.66	-0.87	-0.71	-1.64	-1.32	-0.42	-0.79	-0.23	-0.4	-0.61	-0.49	-0.62	-0.23	-1.03	-0.91	-0.3875	0.2225	-0.0425	0.204213	0.254401	0.86054	1	0.995511	0.977704
Trim26	J3QNM4	-1.06	-0.18	0.53	0.79	-0.99	-1.1	0.21	1.73	-0.48	-2.24	0.81	0.47	0.04	0.23	-0.9	-0.41	-0.3875	-0.3	0.25	0.466442	0.780198	0.68076	1	0.995511	0.912757
Trim28	Q28118	-0.5	-1.49	-1.18	-0.83	-1.32	-0.84	-0.92	-0.78	-1.32	-0.96	-0.84	-1.12	-1.08	-0.9	-1.1	-1.34	0.035	-0.6	0.105	0.891403	0.816383	0.688766	1	0.995511	0.955729
Trim3	Q281R2	1.38	0.84	0.17	0.03	0.99	1.44	0.04	-0.05	0.14	-0.72	0.08	1.74	0.06	0.17	0.14	-0.21	0.085	0.1	-0.48	0.857903	0.760479	0.210209	1	0.995511	0.786218
Trim32	Q281H72	-0.25	-0.71	-0.46	-0.34	-0.26	-0.06	0.19	-0.58	-0.87	-0.21	-0.33	-0.23	-0.69	-0.62	-0.39	-0.02	0.6265	0.0375	-0.02	0.246465	0.865943	0.931245	1	0.995511	0.989713
Trim33	EQ2M45	-2.06	-2.62	-2.63	-2.7	-2.04	-2.35	-2.69	-2.24	-3.37	-1.43	-2.55	-1.96	-0.62	-1.33	-3.3	-1.96	-0.15	0.74	0.19255	-0.174514	0.176739	0.703149	1	0.995511	0.956459
Trim35	Q280C6	0.48	-1.23	-1.26	-0.9	-1.21	4.78	-1.77	-1.24	-0.69	-0.33	-0.99	0.92	0.61	-2.14	0	-0.52	0.8675	0.455	0.215	0.549377	0.411284	0.743077	1	0.995511	0.959128
Trim36	Q280W67	3.11	1.12	0.66	0.5	0.53	3.6	0.51	0.74	2.09	1.58	0.91	3.14	2.16	0.33	1.03	0.86	-0.0025	0.5825	-0.2525	0.997699	0.611522	0.69919	1	0.995511	0.955729
Trim37	F6XMH45	0.73	1.33	2.45	1.12	1.62	0.82	2.94	1.71	-2.87	-1.56	3.33	1.4	-1.38	-0.37	2.16	1.85	0.365	-1.1325	-1.1875	0.493985	0.320307	0.453186	1	0.995511	0.885993
Trim44	F787X2	-0.48	-0.16	-0.42	-0.02	-1.21	-2.3	-0.81	-0.75	-0.55	-1.03	-0.6	1.38	0.26	1.68	0.06	-0.4	-0.3875	-0.1	0.1675	0.935923	0.731467	0.400866	1	0.995511	0.782817
Trim46	Q27WN2	-0.92	-1.58	-0.63	-0.6	-2.05	-1.33	-1.42	-0.97	-1.09	-1.18	-0.57	-1.59	-0.29	-1.67	-0.47	-0.15	0.1675	0.407948	-0.17	0.680596	0.680878	0.955729	1	0.995511	0.955729
Trim47	Q280C5	-0.1	-1.68	-1.52	-0.54	-1.94	-1.91	-1.7	-1.11	-1.71	-0.69	-0.76	0.32	-2.3	-1.16	-1.35	-0.425	0.0325	-0.025	0.36144	0.93626	0.966452	1	0.995511	0.95927	
Trim48	Q280V1	-1.02	-0.17	-0.07	-0.49	-0.09	-1.66	-0.23	-0.44	-0.8	-0.95	-0.53	-0.51	-0.5	-0.34	-0.28	0.04	-0.2025	-0.295	0.1325	0.618964	0.296926	0.639743	1	0.995511	0.942804
Trim49	Q280W4	-0.54	-0.53	-0.67	-0.82	-0.09	-0.4	-0.51	-0.84	0.3	0.99	-0.75	-0.68	-0.67	0.47	-0.93	-0.61	0.275	0.61	0.205	0.20119	0.914984	0.529866	1	0.995511	0.908663
Trim46	E9P22	0.32	1.18	0.32	-0.2	-2.04	0.43	1.1	0.3	-0.25	0.04	1.29	-0.09	0.12	-0.6	0.74	0.19255	-0.1475	-0.0375	0.564558	0.734989	0.914076	1	0.995511	0.986458	
Trim72	Q11X17	-0.32	-0.41	1.08	0.24	-0.06	-0.85	-0.32	1.13	0.06	1.74	1.06	-0.44	-0.59	-1.17	1.18	1.05	-0.72	-0.89	-0.3275	0.329237	0.904844	0.654129	1	0.995511	0.947657
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511	0.952718	
Trim9	Q287K3	-1.16	-0.96	0.08	-0.28	-0.68	-0.95	0.7	0.13	-1.49	-1.54	0.4	-0.16	-0.05	-0.94	-1.17	-1.33	0.38	-1.1175	-0.5425	0.402051	0.822573	0.108282	1	0.995511	0.706427
Trim9	Q2846VM	0.57	0.49	1.39	1.65	-0.43	-0.03	-0.28	1.07	0.07	0.23	0.66	-0.11	0.79	0.24	0.75	0.7	-0.7275	-0.29	-0.3975	0.091797	0.616419	0.240114	1	0.995511	0.795595
Trim9	EQ2JH4	-0.4	-0.15	-0.33	-0.29	-0.09	-0.17	0.14	-0.35	-0.24	-0.25	-0.18	-0.06	-0.08	-0.48	-0.33	0.2	0.085	0.065	0.283045	0.592725	0.671766	1	0.995511		

Tun	P10639	-1.08	-1.44	-0.55	-0.56	-0.87	-0.74	-0.04	-0.69	-1.63	-0.25	-0.63	-1.01	-1.48	-0.94	-0.74	-0.28	0.3225	0.0275	0.0475	0.277982	0.938455	0.886275	1	0.99675	0.979767
Tun2	G3U272	-0.12	0.78	1.83	2.36	0.54	-0.02	1.25	2.16	-0.36	1.39	2.04	0.19	0.79	0.84	0.99	1.36	-0.29	-0.3825	-0.6725	0.648323	0.55831	0.304501	1	0.99611	0.831662
Tun2c12	QRCJ00	-0.07	-0.22	0.41	0.75	-0.02	0.39	0.04	0.25	-0.89	-1.21	0.33	0.44	-0.96	-0.26	0.67	-0.2	0.5	-0.1975	0.3325	0.039481	0.453433	0.590289	1	0.99611	0.856545
Tun2c5	Q6P69	-0.53	-0.25	0.49	-0.32	0.27	-0.47	0.39	-0.36	-0.52	-0.85	-0.67	-0.37	-0.29	0.38	0.34	0.52	0.355	-0.205	-0.363	0.168432	0.284078	0.022587	1	0.99611	0.621926
Tun2c16	07TN22	-1.33	-0.38	-1.68	-1.12	-0.05	-1.32	-0.03	-0.4	-0.62	-1.05	-1.43	-0.55	-0.63	-0.72	-0.84	0.7025	0.0045	0.4425	0.098273	0.946635	0.94637	1	0.999285	0.75577	
Tun2c17	Q9CQM5	-1.52	-1.02	-1.09	-1.34	-2.07	-1.11	-1.85	-2.39	-1.39	-0.93	-1.79	-1.44	-0.37	-0.98	-1.73	1.58	-0.6125	-0.145	0.0775	0.068646	0.548075	0.161042	1	0.99611	0.972768
Tun2c5	Q1W90	-0.72	-0.53	-0.83	-0.66	-0.19	-0.86	0.41	0.54	-0.99	-0.46	0.58	0.59	0.36	-0.77	0.94	0.04	0.385	1.9816	0.6425	0.154363	0.1	0.10568	1	0.99611	0.703417
Tun2c9	Q9C729	-0.97	-0.65	-0.55	-0.41	-0.44	-0.67	0	-0.2	-0.98	-0.32	-0.19	-0.85	-0.72	-0.57	-0.55	-0.09	0.3175	0.06	0.1625	0.163506	0.811309	0.480981	1	0.99611	0.893906
Tun2c	Q8B60-2	-0.84	-1.43	0.4	-0.94	-1.36	-1.28	0.88	-0.52	-1.06	-0.23	-0.46	-1.6	-1.28	-0.88	-1.56	-0.71	0.1325	-0.135	-0.405	0.823046	0.772172	0.343557	1	0.99611	0.848473
Tun1	A49AB9WC	-0.19	-0.3	0.12	-0.55	0.03	-0.15	0.57	-0.03	-0.93	-1.1	-0.08	-0.12	-0.68	-0.43	0.07	0.4	0.335	-0.3325	0.0725	0.171461	0.249496	0.806777	1	0.99611	0.971715
Tun1a4	P38771	-0.47	-0.81	1.33	1.27	0.11	0.4	0.14	0.27	-0.15	-0.12	0.11	1.13	-0.48	-0.26	0.12	0.1	0.257757	0.515428	0.427	0.136	0.1	0.089739	1	0.99611	0.988739
Tun1a4b	Q8BU11	-0.78	0.01	0.51	-0.43	-0.53	-1.23	-0.67	-0.09	-0.93	0.31	-0.69	-0.38	0.04	-0.26	-0.72	0.05	-0.4575	-0.3	-0.117	0.214564	0.433378	0.089579	1	0.99611	0.955729
Tun1r1	Q9JMH6	-0.49	-0.47	-0.26	-0.76	-0.24	-0.59	-0.42	-0.75	-0.37	-0.07	-0.35	-0.38	-0.48	0	-0.54	-0.47	-0.005	0.22	0.1225	0.978904	0.254839	0.573662	1	0.99611	0.925747
Tun1c	J3QMM4	0.02	0	-0.33	-0.12	-0.06	0.25	-0.35	0.33	0.05	-0.59	-0.22	0.01	0.21	0.5	-0.65	-0.74	-0.015	-0.085	-0.0625	0.939181	0.685532	0.847353	1	0.99611	0.976225
Tun1c	Q9PM06	0.25	0.51	-0.12	-0.17	0.81	0.57	-0.26	0.36	0.69	0.44	-0.02	0.37	0.56	0.93	-0.02	-0.62	0.7275	0.0275	0.115	0.355899	0.291818	0.757789	1	0.99611	0.962717
TuY2	Q9R117	-0.71	-0.43	2.21	1.4	-0.03	-0.45	2.72	2.04	2.47	2.18	2.21	0.40	4.06	0.66	2.84	2.73	0.4525	1.0875	1.955	0.633039	0.212307	0.593725	1	0.99611	0.661738
TuY3	P51544-3	0.24	0.82	0.06	0.44	0.63	1.11	0.22	0.18	0.4	0.56	0.3	0.41	0.4	0.73	0.14	0.24	0.45	0.0775	-0.0125	0.601613	0.897161	0.959179	1	0.99611	0.992636
TuY1	Q8JMU7	-0.22	-0.07	-0.17	-0.03	-0.76	-0.03	-0.14	-0.16	-0.14	-0.46	-0.28	0.31	-0.14	0.66	-0.29	0.18	0.23	0.21	0.2225	0.350103	0.352069	0.377424	1	0.99611	0.860984
TuY1	Q8BSA9	-1.41	-1.94	-0.71	-0.88	-3.32	-0.49	-1.04	-1.09	1.47	0.23	-0.57	-1.69	1.9	-2.2	-0.57	-0.15	1.095	0.98	0.68889	0.123562	0.241136	1	0.99611	0.795273	
TuY5	A2RSK7	-0.02	0.04	0.95	0.49	0.12	0.21	1.4	1.47	-1.02	-0.05	1.59	0.1	-1.22	-0.41	0.72	0.99	0.455	-0.21	-0.345	0.300222	0.698307	0.512402	1	0.99611	0.902993
U2a1	Q90883	-3.49	-5.71	-2.51	-2.57	-5.67	-4.4	-2.57	-2.2	-5.04	-1.03	-2.46	-5.07	-3.29	-4.21	-1.84	-2.47	-0.14	0.17	0.6175	0.887496	0.879175	0.457223	1	0.99611	0.887902
U2a1f4	Q8BG19	-1.07	-1.34	-0.8	-1.42	-1.76	-1.06	-0.84	-0.81	-0.14	-0.34	-1.24	-1.1	0.96	0.8	0.36	-1.02	0.04	0.4525	1.4325	0.88153	0.1699	0.010278	1	0.99611	0.563386
U2a1f4	Q80VR5	-1.31	-2.88	-1.62	-1.39	-2.21	-2.15	-1.28	-1.58	-1.47	-0.40	-1.39	-2.42	-1.42	-1.59	-0.79	-1.37	-0.005	0.47	0.5075	0.990313	0.413364	0.217604	1	0.99611	0.787447
U2burp	Q80VR5-2	-1.35	-2.4	-1.96	-2.04	-2.21	-2.06	-1.79	-1.53	-2.8	-1.63	-2.32	-2.77	-1.77	-1.64	-1.06	-2.09	0.04	-0.4425	0.2975	0.882349	0.220019	0.356827	1	0.99611	0.855416
U2a	A0A1L15T1	-2.41	0.09	1	0.71	0.94	-0.55	0.74	0.44	-0.58	0.83	0.77	1.23	0.15	0.63	1.14	1.56	0.545	0.1	0.0225	0.481004	0.904978	0.198263	1	0.99611	0.78004
Uap1	A0A0R41F	-1.02	-0.92	-0.52	-0.42	-0.44	-0.92	-0.6	-0.67	-0.08	0.15	-0.54	-0.61	-0.05	0.25	-0.8	-0.92	0.0625	0.45	0.34	0.763385	0.106053	0.311546	1	0.99611	0.834523
Uap11	Q3TW96	0.03	-0.07	-0.55	-0.57	-0.24	0.04	0.87	-0.3	-0.1	-0.39	-0.59	-0.09	-0.22	0.06	-0.6	-0.58	-0.0875	-0.0375	-0.08	0.743599	0.876319	0.762254	1	0.99611	0.963682
Uap1	Q20205	-0.52	-0.39	-0.28	-0.26	-0.05	-0.76	-0.43	-0.28	0.5	-0.32	-0.32	-0.48	-0.83	-0.14	-0.77	-0.87	-0.1675	-0.025	-0.29	0.347495	0.796062	0.24687	1	0.99611	0.787447
Uap1	Q2119	-4.65	-5.12	-4.79	-4.25	-4.73	-5.11	-4.78	-5.07	-4.12	-3.89	-5.07	-4.12	-3.89	-5.11	-4.64	0.1325	0.1	0.6	0.723527	0.105433	0.384981	1	0.99611	0.925669	
Uba1	Q8C878	-1.1	-1.26	-0.87	-0.98	-1.17	-1.43	-0.96	-0.94	-2.11	-0.78	-0.99	-1.17	-1.15	-1.27	-1.32	-1.42	-0.0725	-0.21	-0.4875	0.694662	0.592088	0.081781	1	0.99611	0.68885
Uba5	Q8VE47	-0.93	-0.7	-0.7	-0.76	-0.77	-0.66	-0.64	-0.63	-0.39	-0.9	-0.47	-0.82	-0.17	-1.14	-0.22	-0.8	-0.0975	0.1275	0.19	0.509461	0.513241	0.48266	1	0.99611	0.839925
Uba5	Q8C784	-0.83	-0.63	-0.69	-0.52	-0.42	-0.98	-0.39	-0.6	-0.81	-0.46	-0.54	-0.62	-0.92	-0.44	-0.59	0.58	0.07	0.035	0.712492	0.729558	0.865657	1	0.99611	0.976225	
Uba1	Q8VD17	0.8	0.13	0.23	-0.25	-0.39	0.15	0.27	0.17	1.18	2.15	0.9	1.45	1.71	2.31	0.3	-0.1	0.25	0.15	0.054996	0.336733	0.718102	-0.42	1	0.99611	0.916827
Uba2c	Q8R1K1	0.34	0.72	0.67	0.8	1.01	1.1	1.43	1.03	0.08	0.04	0.55	0.24	0.48	0.2	1.28	1.36	0.26	-0.405	0.1975	0.392678	0.071531	0.534595	1	0.99611	0.912122
Ubalid1	Q6P382	0.52	0.62	-1.06	1.15	-1.92	0.18	-2.8	-1.15	-0.39	0.61	-0.18	0.76	1.14	-2.91	-0.52	-2.48	-1.48	-1.425	-1.25	0.052092	0.752593	0.19216	1	0.99611	0.77733
Uba2	Q8H448	0.41	0.01	0.06	0.29	0.91	0.68	0.06	0.08	0.4	-0.35	-0.12	0.42	0.5	1.17	-0.62	0.03	-0.01	-0.3525	-0.4225	0.972861	0.243432	0.343236	1	0.99611	0.848473
Uba2p1	A2AMV5	-1.1	-3.59	-1.96	-2.44	-3.12	-2.78	-2.34	-2.78	-2.29	-1.33	-2.36	-2.63	-1.9	-2.41	-1.88	-0.29	0.25	-0.6075	0.80806	0.194202	0.578463	1	0.99611	0.750546	
Uba2p1	Q80X50	-2.61	-2.92	-3.5	-3.37	-2.78	-2.99	-3.52	-3.76	-2.63	-2.47	-3.38	-2.63	-2.09	-3.03	-3.86	-0.1625	-0.385	-0.4475	0.595019	0.234642	0.383016	1	0.99611	0.860984	
Uba3b3b	Q8BGG7	0.56	0.8	0.13	0.86	0.5	0.91	1.28	1.49	0.81	0.9	0.99	0.49	0.95	0.94	1.24	1.26	0.2075	-0.4	0.1475	0.428306	0.845793	0.557073	1	0.99611	0.917092
Ube2a	A0A09YUW	-1.33	-1.09	-0.61	-0.63	-1.13	-1.21	-0.76	-0.71	-1.47	-0.56	-0.73	-1.2	-1.59	-0.54	-1.45	-2.18	-0.3975	-0.075	-0.525	0.87341	0.792671	0.184543	1	0.99611	0.776843
Ube2b	P61347	-1.05	-0.51	-0.26	-0.1	-0.68	-0.33	-0.03	-0.35	-0.15	0.37	-0.6	-0.59	-1.36	-0.34	-0.93	-0.76	0.1275	0.2375	-0.3675	0.621588	0.445463	0.25074	1	0.99611	0.807201
Ube2c1	P51080	-0.4	-0.8	-0.15	-0.4	-0.81	-0.4	-0.2	-0.34	-1.2	-0.4	-0.1	-0.62	-0.84	-0.14	-0.76	0.08	0.157755	0.1	0.085	0.157755	0.069384	0.770627	1	0.99611	0.929635
Ube2b3	A0A002J3	-0.94	-0.41	-1.11	-1.18	-0.35	-0.89	-0.38	-0.97	-0.56	-1.18	-0.62	-0.74	-1.26	0.98	-1.06	-1.1	0.2625	-0.385	0.3975	0.317162	0.13531	0.570878	1	0.99611	0.924317
Ube2b3	D3YX01	-3.55	-2.79	-4.17	-4.13	-3.06	-3.08	-3.46	-3.47	-3.46	-2.26	-3.97	-2.75	-2.36	-2.39	-4.19	-4.69	0.2175	0.6	0.305	0.619123	0.871498	0.633973	1	0.99611	0.941132
Ube2b3	P52483	-11.39	-3.02	-9.4	-7.07	-9.01	-10.12	-15.75	-5.24	-12.81	-45.7	-7.61	-8.95	-7.69	-6.5	-4.93	-8.18	-0.46	1.085	2.745	0.827149	0.535998	0.266623	1	0.99611	0.635197
Ube2c1	Q2CY44	-0.05	0.17	-0.32	-0.26	-0.12	-0.16	-0.16	-0.07	-0.44	-0.1	-0.12	-0.46	-0.34	0.06	0.41	0.2275	0.6225	-0.4075	0.988538	0.475467	0.032716	-0.11	1	0.99611	0.929635
Ube2c1	P62254	-1.28	-1.07	-0.95	-0.76	-1.21	-1.24	-1.05	-0.88	-1.18	-0.38	-0.6	-1.3	-1.2	0.17	-0.84	-0.7	-0.08	0.15	0.3725	0.666					

Ugcq9	Q9CQ69	1.45	1.34	1.48	1.71	0.5	1.17	0.56	1.42	1.56	2.02	1.44	1.32	1.92	0.95	1.11	1.17	-0.5825	0.09	-0.2075	0.043304	0.673963	0.431562	1	0.96511	0.879165	
Ugc10	E9P9U6	1.27	0.71	0.94	0.81	0.05	0.89	0.37	0.89	1.25	0.91	1.57	0.74	0.7	1.2	1.12	0.89	-0.2825	0.185	0.045	0.173038	0.495907	0.838927	1	0.96511	0.975831	
Uhc2	E9Z7L1	1.15	1.45	1.11	0.98	1.75	1.32	1.23	0.37	1.29	1.24	1.23	0.98	1.73	1.82	1.07	1.48	-5.9617	0.0325	0.1075	0.059115	0.099445	0.957129	1	0.96511	0.955729	
Uhc3	Q5CNC0-2	0.26	0.63	-0.45	-0.54	0.05	0.01	-0.3	-0.39	0.31	-0.39	-0.45	0.13	-0.31	0.5	-0.85	-0.53	-0.1325	-0.075	-0.2725	0.660393	0.82339	0.49158	1	0.96511	0.897531	
Uhc4	A0A0U1RP	0.09	0.02	-0.54	-0.07	-0.55	-1.05	-0.8	-0.65	0.44	-0.17	-0.52	-0.14	-0.35	0.66	-0.64	-1.06	-0.6375	0.1125	-0.2225	0.012199	0.675261	0.564043	1	0.96511	0.920254	
Uhc5	Q9Z024	0.44	0.21	0.26	0.39	0.1	-0.11	0.87	0.77	0.14	-0.3	0.42	0.84	-0.72	-0.89	-0.21	-0.09	0.0825	-0.05	-0.8025	0.749838	0.845951	0.808293	1	0.96511	0.563386	
Uhc6	P70697	0.36	0.46	0.31	0.1	0.01	0.55	-0.15	0.04	-0.52	0.07	-0.31	0.42	0.03	0.81	0.51	0.31	0.11	0.13	-0.2125	0.638396	0.605736	0.791914	1	0.96511	0.860904	
Uhc7	P51163	0.85	0.42	-0.5	0.38	0.66	0.82	0.31	0.52	0.65	0.62	0.15	0.78	0.33	0.85	0.21	-0.18	0.29	0.2625	0.015	0.348244	0.416105	0.965099	1	0.96511	0.95927	
Uhc8	A0A0R40E	0.64	-0.18	-0.84	-0.55	-0.13	-0.58	-1.15	-0.31	1.13	1.4	-0.94	0.21	1.48	2.11	0.3	-0.65	-0.31	0.6825	0.8925	0.414085	0.250228	0.209521	1	0.96511	0.786218	
Uhc9	Q9CQ56	0.8	1.08	0.75	0.49	0.67	0.57	0.94	0.86	0.48	0.6	0.47	0.65	0.65	0.86	0.93	0.95	0.23	-0.23	0.0675	0.403343	0.241135	0.740256	1	0.96511	0.959896	
Uhc10	E9L0D0	-2.59	-5.5	-2.47	-1.34	-1.27	-0.99	-1.34	-1.27	-0.99	-1.34	-1.27	-0.99	-1.34	-1.27	-0.99	-1.34	-1.27	-0.99	0.745	0.226632	0.171183	0.409614	1	0.96511	0.884817	
Uhc11	E9F2U6	-2.48	-1.07	-2.7	-1.35	-0.15	-1.55	-1.16	-1.07	-0.78	-1.57	-0.1	-1.76	-0.84	-0.43	-2.49	0.18	0.03	0.155	0.24	0.6175	0.710108	0.648634	0.886517	1	0.96511	0.860805
Uhc12	Q9Z120	-1.52	-1.7	-1.45	-1.48	-1.29	-1.59	-1.04	-1.55	-1.54	-1.41	-1.35	-1.2	-1.29	-1.71	-1.37	-1.43	0.17	0.1625	0.0875	0.364696	0.350099	0.642793	1	0.96511	0.943635	
Uhc13	P51479-2	-0.89	-1.07	-1.24	-1.26	-0.73	-1.17	-1.6	-1.62	-0.99	-0.58	-1.41	-0.72	-0.63	-0.59	-0.85	-1.14	-0.65	0.19	0.3125	0.501889	0.423654	0.163272	1	0.96511	0.758224	
Uhc14	Q9Y946	-0.31	-0.11	-1.17	-1.38	-0.39	-0.62	-0.94	-1.36	-0.46	-0.39	-1.26	-0.34	-0.47	-0.15	-1.43	-1.35	-0.085	0.1	-0.1075	0.8139	0.725626	0.800983	1	0.96511	0.970765	
Uhc15	Q9Y942	-0.6	0.16	0.15	-0.47	-0.11	-0.41	0.58	0.3	-1.52	-0.63	0.22	-0.31	2.5	-0.81	1.03	0.46	0.156	-0.545	-0.855	0.133001	0.498974	0.565322	1	0.96511	0.887169	
Uhc16	J3GSN2	-0.1	0.16	-0.24	0.07	0.14	0	0.26	0.22	0.2	0.08	-0.02	0.13	-0.22	0.09	-0.33	0.23	0.1825	0.125	-0.145	0.283647	0.478539	0.848888	1	0.96511	0.8891	
Uhc17	Q9JMA1	-0.03	-0.11	0.41	0.59	-0.27	-0.01	0.27	0.14	0.32	0.98	0.42	0.16	0.12	0.43	0.06	-0.01	-0.0825	0.2555	-0.065	0.746094	0.347002	0.783453	1	0.96511	0.967642	
Uhc18	Q9RSH1	-0.36	-0.57	-0.26	-0.45	-0.3	-0.44	-0.17	-0.18	-1.5	-0.61	-0.06	-0.48	-1.49	-1.08	-0.37	-0.34	0.1375	-0.2525	-0.41	0.352269	0.427804	0.197039	1	0.96511	0.78004	
Uhc19	E9Z9M5	-0.9	-1.15	-0.33	-0.04	-0.86	-1.01	-0.29	-0.04	-0.18	-0.52	0	-0.84	-1.16	-0.78	-0.3	-0.39	0.075	-0.01	-0.0525	0.824242	0.931987	0.722616	1	0.96511	0.979626	
Uhc20	Q8C6M1	-0.55	-0.67	0.18	0.04	-0.22	-0.49	0.24	-0.15	0.06	0.71	0	-0.25	-0.23	0.05	0.1	0.385	0.36	0.706111	0.218687	0.217021	0.717021	1	0.96511	0.787447		
Uhc21	Q5U0U2	-6.23	-7.13	-1.97	-2.11	-7.31	-5.4	-1.96	-1.94	-5.98	-1.43	-2.04	-6.4	-5.13	-7.94	-1.32	-1.93	0.2075	0.3975	0.28	0.902326	0.812026	0.877194	1	0.96511	0.979626	
Uhc22	E9Y4V5	-0.46	-0.38	-0.47	-0.63	-0.11	-0.29	-0.24	-0.59	-0.47	-0.47	-0.36	-0.53	-0.45	0.01	-0.63	-0.58	0.1775	0.0275	0.0725	0.307858	0.86304	0.732879	1	0.96511	0.958635	
Uhc23	A0A58MP	0.15	-0.05	0.11	0.11	0.4	0.13	-0.1	0.36	0.12	0.27	0.16	0.18	0.19	0.24	0.09	0.06	0.0875	0.0305	0.065	0.687287	0.518766	0.704655	1	0.96511	0.957084	
Uhc24	Q3JN04	-0.65	-1.66	-0.47	-0.1	-1.8	-0.37	-0.13	0	-0.51	-0.48	0.19	-0.6	-0.67	-0.52	-0.58	-1.01	0.145	0.37	0.025	0.768569	0.329762	0.942836	1	0.96511	0.991519	
Uhc25	E9Y8Y8	0.25	0.52	0.1	0.11	0.18	0.15	-1.15	-0.09	0.47	-0.26	0.14	0.35	0.83	0.24	0.29	-0.06	-0.2225	-0.07	0.08	0.228431	0.754414	0.745069	1	0.96511	0.959729	
Uhc26	F8W2Y7	0.3	0.28	1.24	0.49	0.44	0.57	1.27	1.32	0.67	0.49	1.42	0.52	0.96	0.11	1.59	1.63	0.3225	-0.1975	0.495	0.322412	0.536263	0.242066	1	0.96511	0.797611	
Uhc27	Q8R5K-2	-0.73	-0.6	0.41	0.18	-0.11	-0.61	0.37	0.1	0.8	-0.44	-0.19	-0.63	-0.56	-0.21	0.02	0.14	0.1775	-0.33	0.0325	0.606411	0.308114	0.920563	1	0.96511	0.98706	
Uhc28	F6W1B7	-1.1	-1.13	-1.5	-1.66	-1.09	-1.14	-1.52	-1.66	-0.49	-1.66	-1.26	-1.18	-0.68	-1.86	-1	0.65	0.12	0.8082	0.075	0.17	0.828682	0.75489	0.563126	1	0.96511	0.96192
Uhc29	MCQWNT	-0.59	-0.75	-0.27	-0.38	-0.61	-0.32	-0.6	-0.45	-0.47	-1.01	-0.5	-0.7	-0.32	-0.87	-0.76	-0.39	0.0025	-0.1725	-0.0875	0.988635	0.416935	0.69489	1	0.96511	0.955729	
Uhc30	Q8BW70	-1.81	-0.05	-0.72	-0.89	-0.29	-0.33	-0.56	-1.05	-0.35	-1.18	-0.38	-0.93	0.83	-1.74	-1.31	-0.79	-0.19	0.3325	0.115	0.171006	0.4814	0.850974	1	0.96511	0.976225	
Uhc31	Q3T109	-0.35	-1.04	-1.28	-1.3	-0.74	-0.95	-0.74	-0.43	-1.09	-0.72	-1.43	-1.49	-0.29	0.33	0.15	-0.46	0.2775	-0.19	0.925	0.296115	0.52117	0.013752	1	0.96511	0.573604	
Uhc32	P13121	-1.04	-1.16	0.17	-0.47	-0.11	-0.47	-0.06	0.3	-0.52	0.03	-0.97	-0.2	-0.78	-0.7	0.22	0.17	0.075	-0.0225	0.0125	0.823381	0.994234	0.969129	1	0.96511	0.982169	
Uhc33	A6PWR8	-0.25	-0.5	0.2	-0.1	-0.66	-0.03	-0.45	0.05	1.95	0.33	0.52	0	2.9	-0.21	0.13	-0.5	-0.11	0.8625	0.7425	0.648059	0.071685	0.31892	1	0.96511	0.838969	
Uhc34	Q8K387	-1.34	-1.23	-0.6	-0.53	-0.33	-1.27	-1.67	-1.16	-1.25	-0.16	-1.06	-2.1	-1.82	-2.72	-1.14	-1.17	-0.9325	0.4075	0.1225	0.912144	0.545977	0.9888326	1	0.96511	0.980661	
Uhc35	Q62069	0.47	0.36	0.17	0.29	0.74	0.65	0.2	0.14	-0.17	-0.06	0.11	0.44	-0.44	-0.15	0.01	0.35	0.11	-0.2425	-0.38	0.583829	0.241296	0.117556	1	0.96511	0.718609	
Uhc36	A0A115V1	-0.47	-0.6	-0.36	-0.13	-0.86	-0.17	-0.58	0.86	-0.54	-0.82	-0.41	-0.63	-0.41	-0.63	-0.41	-0.63	-0.41	0.075	-0.01	0.37	0.867864	0.240082	0.160256	1	0.96511	0.975116
Uhc37	A0A18R	-0.82	-1.16	-0.68	-0.03	0.16	0.33	0.95	0.46	1.61	-0.54	-0.25	1.86	2.16	0.73	0.32	0.5675	0.36	1.3375	0.227995	0.553838	0.066463	0.717021	1	0.96511	0.658454	
Uhc38	Q3U4W8	0.84	0.39	-0.41	-0.2	0.1	0.56	-0.17	-0.4	0.44	-0.16	-0.44	0.77	-0.17	0.67	-0.56	-0.58	-0.1325	-0.0025	-0.315	0.697433	0.994767	0.432928	1	0.96511	0.879365	
Uhc39	P15975	-0.02	0.22	0.54	0.01	-1.86	0.39	-1.87	-0.36	1.74	0.45	0.04	-0.45	2.93	-1.71	0.25	0.33	-1.1125	0.2575	0.2625	0.062251	0.57651	0.761439	1	0.96511	0.963123	
Uhc40	Q8BLD6	0.79	0.67	0.51	0.58	0.05	0.39	1.64	0.58	0.56	0.75	0.88	1.02	0.64	1.12	0.58	0.66	0.2275	0.165	0.1125	0.431265	0.372912	0.583224	1	0.96511	0.927734	
Uhc41	Q8YK1	-0.31	-0.15	-0.59	0.78	-0.25	-0.78	-0.57	0.33	0.56	0.43	0.82	0.83	0.1	0.91	0.1	0.85	-0.4225	0.798501	0.814721	0.433521	0.33521	0.33521	1	0.96511	0.987927	
Uhc42	F8W1X1	-0.19	-0.59	-0.56	-0.82	-0.39	-0.29	-0.27	-0.54	-0.3	-0.91	-0.47	-0.33	-0.96	-0.74	-0.63	-0.69	0.1675	-0.1125	-0.21	0.337807	0.884511	0.317368	1	0.96511	0.838864	
Uhc43	Q8OU87	-0.31	-0.41	0.51	0.43	-0.9	-0.21	0.11	0.62	0.64	0.63	0.5	-0.39	1.21	-0.91	0.59	0.08	-0.15	0.29	0.1875	0.69347	0.404358	0.995499	1	0.96511	0.955729	
Uhc44	Q4F5E6	-0.06	-0.11	0.27	0.09	0.17	0.16	0.39	0.33	-0.38	0.26	0.39	0.2	-0.24	-0.16	0.29	0.25	0.185	0.04	-0.025	0.265393	0.857698	0.84249	1	0.96511	0.976225	
Uhc45	G3UVS2	-1.75	-1.82	-1.59	-1.89	-1.37	-1.24	-1.74	-1.33	-2.05	-1.27	-1.62	-2.84	-1.58	-1.68	-1.86	-1.2	0.29	0.59574	0.773024	0.684735	0.717021	0.717021	1	0.96511	0.982169	
Uhc46	Q8UBU6	1	0.81	-7.08	-0.98	0.62	0.83	-8.88	-0.37	1.34	0.87</																



Wapl	B7P247	-4.62	-7.86	-5.17	-6.69	-6.58	-6.61	-7.33	-7.2	-6.75	-1.66	-4.79	-5.72	-4.94	-6.19	-4.78	-5.86	-0.845	1.355	0.6425	0.241345	0.271089	0.392843	1	0.995511	0.855775
Wwsl1	P32921-2	-0.62	-0.47	-0.43	-0.05	-0.38	-0.57	-0.16	-0.1	-0.7	-0.31	-0.35	-0.38	-0.81	-0.43	-0.67	0.09	-0.0425	-0.205	0.649338	0.813902	0.340018	1	0.995511	0.848092	
Wwsl2	Q5CYK1	1.1	2.4	0.84	0.96	0.92	1.02	1.25	0.53	0.96	0.16	0.11	0.52	0.65	0.1	0.46	-0.05	-0.63	-0.7025	0.806908	0.012819	0.01005	1	0.995511	0.563386	
Wwsl3	Q8H946	1.88	1.17	1.07	1.25	0.74	1.74	0.83	1.17	1.97	0.74	1.16	2.01	1.33	1.27	0.72	-0.2225	0.175	-0.335	0.452531	0.719432	0.375953	1	0.995511	0.794626	
Wwsl4	Q8H843	-0.5	-0.73	-0.06	0.14	-0.84	-0.96	0.08	0.18	-0.16	1.24	0.42	-0.34	-0.56	0.15	-0.03	-0.44	-0.0975	0.5775	0.0675	0.778469	0.165474	0.808989	1	0.995511	0.972722
Wwsl5	A04517BF1	1.19	0.97	1.26	1.32	1.14	1.48	1.06	1.13	1.32	1.29	1.38	0.9	1.7	1.56	1.06	-0.08	0.0175	0.2875	0.11	0.919033	0.360384	0.659491	1	0.995511	0.949445
Wwsl6	Q8VH65	-0.58	0.51	0.94	1.32	0.69	0.06	0.42	0.92	0.94	0.07	0.63	0.08	0.87	1.36	0.68	0.41	-0.365	-0.22	0.206571	0.433599	0.857122	1	0.995511	0.970225	
Wwslh1	Q8YD08	-0.16	-0.18	-0.07	-0.36	-0.26	-0.45	-0.65	-0.17	-1.59	-0.62	0.08	-0.14	-1.13	-1.7	0.56	-0.37	-0.19	-0.065	-0.4675	0.289277	0.884556	0.328276	1	0.995511	0.844932
Wwslh2	Q6PGL7	-0.2	-0.42	-0.57	-0.28	-0.6	-0.38	-0.34	-0.5	-0.08	0.08	-0.5	-0.22	-0.18	-0.08	-0.75	-0.59	-0.0875	0.2275	-0.0325	0.509994	0.287782	0.885943	1	0.995511	0.979767
Wwslh3	S4R287	-0.16	0.17	0.37	-0.21	0.51	-0.24	-0.46	-0.41	0.1	1.09	-0.48	0.02	-0.46	0.77	0.04	-0.39	-0.0425	0.325	0.0075	0.876297	0.355337	0.981681	1	0.995511	0.994858
Wwslh4	Q3UM8B	-0.4	-0.3	-0.05	-0.16	-0.43	-0.21	-0.48	-0.16	-0.35	-0.43	-0.01	0.20	-0.28	-0.01	-0.21	-0.41	-0.05	-0.41	-0.05	0.81047	0.867599	0.648928	1	0.995511	0.923231
Wwslh5	Q8CEJ7	-0.21	-0.22	0.01	-0.02	-0.28	-0.41	-0.03	-0.16	-0.14	0.12	-0.06	-0.29	-0.43	0.25	-0.34	-0.11	0.0225	-0.502093	0.885837	0.898915	0.983509	1	0.995511	0.983509	
Wsl1	Q91YD9	-0.6	-0.38	-0.19	0.25	-0.61	-0.62	-0.48	-0.09	-0.31	0.45	-0.31	-0.93	-0.4	-0.09	-0.31	-0.22	-0.175	-0.405	-0.025	0.501104	0.892258	0.91499	1	0.995511	0.986556
Wwslp1	Q923D5	-0.44	-0.22	-1.55	-1.45	-1.45	-1.43	-2.09	-1.51	-1.79	-0.85	-1.66	-2.27	-1.01	-1.05	-1.01	-0.23	-0.21	-0.235	0.11	0.580541	0.601209	0.800223	1	0.995511	0.970393
Wwslp2	P97P65	-0.27	-0.72	-0.33	-0.12	-0.49	-0.5	-0.4	-0.04	-0.38	-0.61	-0.11	0.01	-0.66	-0.14	-0.53	-0.47	0.0025	0.0875	-0.09	0.990303	0.697189	0.683842	1	0.995511	0.955729
Wwslp3	Q51048	-0.58	0.51	0.94	1.32	0.69	0.06	0.42	0.92	0.94	0.07	0.63	0.08	0.87	1.36	0.68	0.41	-0.365	-0.22	0.206571	0.433599	0.857122	1	0.995511	0.970225	
Wwslp4	A041Y7JF	-1.96	-1.16	-0.76	0.51	-1.44	-0.55	-0.16	0.61	-0.71	0.02	0.25	-1.8	-0.07	-0.57	-0.12	-0.54	-0.4575	0.2885	0.5525	0.460315	0.655665	0.2883	1	0.995511	0.982475
Wwslf1	E9Q4P1	-4.38	-5.23	-3.01	-2.54	-4.92	-4.47	-2.48	-2.75	-4.41	5.16	4.7	4.57	-1.32	-5.82	-2.65	0.34	0.135	8.5	0.5325	0.863245	3.49E-07	0.60055	1	0.00181	0.930802
Wwslf2	Q8UB84	1.42	-0.03	0.05	-0.26	-0.26	1.63	-0.89	0.44	0.45	1	-0.25	0.97	1.23	0.42	0.64	0.34	-0.065	0.245	0.3625	0.914008	0.588008	0.390542	1	0.995511	0.865375
Wwslf3	Q8VH88	0.42	0.49	0.37	0.28	0.6	0.5	0.39	0.43	0.23	0.51	0.39	0.41	0.03	0.36	0.17	0.24	0.0775	-0.17	-0.165	0.598547	0.387709	0.312094	1	0.995511	0.834523
Wwslr1	O88342	1.6	-0.18	0.1	0.2	0.08	1.38	0.31	0.7	-1.11	-0.38	0.31	1.28	-1.24	-1.35	-0.05	-0.18	0.1875	-0.405	-0.135	0.681671	0.500437	0.043334	1	0.995511	0.658454
Wwslr2	E5E813	-1.06	-0.83	-0.58	-0.49	-0.52	-1.06	-0.29	-0.65	-0.59	-0.71	-0.68	-0.93	-0.52	-0.59	-0.68	-0.54	0.11	0.0125	0.1575	0.630274	0.949682	0.435982	1	0.995511	0.883445
Wwslr3	Q91U4A	-1.49	-1.52	-1.74	-2.48	-1.64	-1.26	-1.81	-2.15	-1.32	-2.44	-1.83	-1.66	-2.21	-2.02	-1.11	-1.74	0.0925	-0.005	0.0375	0.754314	0.987809	0.91004	1	0.995511	0.986458
Wwslr4	Q91V09	0.37	0.46	0.32	-0.09	0.12	-0.47	0.16	0.23	-0.24	-0.23	0.3	0.61	-0.37	-0.19	-0.01	0.23	-0.02	-0.155	-0.35	0.914309	0.556436	0.145551	1	0.995511	0.745321
Wwslr5	H18U8	0.16	-0.09	0	0.42	-0.54	-0.57	0.04	0.25	-0.21	1.07	0.18	-0.46	-0.44	0.13	0.26	-0.2	-0.3275	0.1275	-0.185	0.20904	0.681378	0.440474	1	0.995511	0.883549
Wwslr6	Q4VBE8	-0.58	-0.58	-1.8	-2.15	-0.89	-0.04	-2.39	-1.95	-0.79	-0.93	-1.39	-0.75	-0.44	-0.67	-1.05	-2.08	-0.04	0.3125	0.2175	0.947639	0.451774	0.670353	1	0.995511	0.952558
Wwslr7	Q3UGF1-3	-0.1	-0.32	0.38	0.03	-0.81	-0.14	-0.96	0.08	0.27	-0.2	-0.06	-0.01	0.68	-1.31	-0.16	-0.22	-0.535	-0.0775	-0.33	0.1051	0.737156	0.443124	1	0.995511	0.883549
Wwslr8	Q3UW65	-0.7	-0.77	-0.48	-0.52	-0.48	-0.35	-0.11	-0.75	-0.63	-0.37	-0.44	-0.4	-0.41	-0.66	-0.57	-0.65	0.095	0.095	-0.055	0.644893	0.749355	0.772088	1	0.995511	0.969032
Wwslr9	Q8CF15	-0.76	-0.73	-0.31	-1.77	-0.39	-0.89	-1.05	-0.72	-0.17	-0.63	-0.06	-0.09	-0.24	-0.14	-0.1	-0.21	-0.14	-0.215	0.925	0.12496	0.485792	0.18086	1	0.995511	0.787094
Wwslr10	A041Y7V0	-0.55	0.29	0	-0.55	-0.49	-2.66	-2.81	-1.73	-2.69	-1.18	-0.98	-2.96	-3.44	-2.24	-0.48	-1.76	-1.895	-0.595	0.0625	0.064667	0.652045	0.620244	1	0.995511	0.938007
Wwslr11	A04A94B8	-0.9	-0.72	-0.59	-0.63	-0.52	-0.29	-0.34	-0.39	-0.78	-0.87	-0.53	-0.59	-0.72	-0.71	-0.62	-0.58	0.325	0.0175	0.0525	0.060694	0.920723	0.765558	1	0.995511	0.961434
Wwslr12	Q8H814	0.68	0.57	0.53	0.39	0.59	0.4	0.67	0.17	0.52	0.16	0.63	0.43	0.85	1.4	0.2	0.73	-0.085	-0.1075	0.2525	0.62647	0.557875	0.71414	1	0.995511	0.859424
Wwslr13	Q8H40	-2.58	-4.45	-2.1	-1.82	-0.45	-1.68	-1.47	-1.75	-1.35	-0.64	-1.51	-2.38	-1.24	-1.37	-1.85	-2.25	0.005	0.005	0.5875	0.924555	0.921474	0.990659	1	0.995511	0.939088
Wwslr14	Q8H803	-0.03	-0.35	-0.27	-0.83	-0.16	-0.4	-0.3	-0.86	-0.55	0	-0.49	-0.3	-0.59	0.09	-0.99	-0.08	0.02	0.035	-0.0225	0.941559	0.882659	0.941729	1	0.995511	0.991085
Wwslr15	Q3TA68	0.56	0.76	1.52	0.6	0.72	-0.02	1.04	1.16	0.45	0.93	1.46	0.32	0.25	1.02	1.03	1.37	-0.135	-0.07	0.0575	0.689264	0.836102	0.861514	1	0.995511	0.977704
Wwslr16	Q8CEB3	0.42	0.44	1.2	0.77	0.54	0.43	0.6	0.87	0.18	0.55	1.06	0.31	0.25	-0.38	0.75	0.65	-0.0975	-0.4575	-0.39	0.667985	0.232512	0.24434	1	0.995511	0.799652
Wwslr17	Q3UD90	-0.63	0.57	0.55	0.54	0.18	-0.22	0.39	-0.34	-0.33	0.3	0.05	-0.36	0.36	0.17	0.24	-0.075	0.052	0.728311	0.942258	0.883027	0.91004	1	0.995511	0.834523	
Wwslr18	Q8QZ14	1.41	1.18	0.82	1.28	1.26	0.68	0.73	0.69	0.53	0.69	1.15	0.75	0.8	1.46	0.74	0.84	-0.3325	-0.3025	-0.2125	0.148117	0.220018	0.983038	1	0.995511	0.867334
Wwslr19	Q8NVH8	0.4	0.6	0.61	0.39	0.77	0.55	0.64	0.64	0.18	0.22	0.54	0.47	0.17	0.73	0.52	0.49	0.15	-0.1475	-0.0225	0.333076	0.451117	0.909793	1	0.995511	0.986458
Wwslr20	Q91V43	-0.32	-0.17	-0.02	-0.55	0.36	-0.4	-0.2	-0.58	-1.56	-1.41	-0.11	-0.18	-1.1	-1.54	-0.76	0.05	0.06	-0.55	-0.6725	0.807706	0.818499	0.105096	1	0.995511	0.703417
Wwslr21	Q91V43	0.38	0.33	0.71	0.46	0.86	0.52	0.63	0.56	-0.27	-1.69	0.38	0.77	-1.24	-0.45	0.11	0.76	0.1725	-0.6725	-0.675	0.318925	0.702608	0.130406	1	0.995511	0.724205
Wwslr22	Q92D11	-0.4	-0.32	0.2	-2.06	0.45	0.5	1.59	1.48	0.59	0.22	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.995511	0.977175
Wwslr23	Q8CGF6	0.37	0.4	0.52	0.34	0.46	0.48	0.23	0.59	0.04	0.02	0.45	0.84	-0.18	-0.4	0.59	0.37	0.0325	-0.07	-0.2225	0.833738	0.71808	0.384006	1	0.995511	0.869084
Wwslr24	Q8H857	0.27	-0.29	0.51	0.43	-0.08	0.15	0.56	0.63	-0.11	0.05	0.54	0.05	-0.36	0.01	0.63	0.46	-0.085	-0.0975	-0.045	0.74139	0.693937	0.880884	1	0.995511	0.979767
Wwslr25	P61965	-1.7	-2.01	-1.7	-2.11	-1.19	-2.28	-1.77	-2.03	-0.9	-1.52	-2.01	-2.04	-1.58	-0.9	-1.87	-2.04	-0.025	0.2625	0.735	0.813056	0.384587	0.138592	1	0.995511	0.73493
Wwslr26	Q91R08	-0.52	-0.27	-0.48	-0.47	-0.48	-0.35	-0.49	-0.27	-0.17	-0.63	-0.27	-0.16	-0.78	-1.63	-1.64	-1.72	0.2425	0.1725	0.2675	0.242332	0.615212	0.153799	1	0.995511	0.975193
Wwslr27	A041DSRU	-0.64	-1.13	-1.27	-1.14	-1.07	-0.45	-1.29	-1																	

Zc3h3	Q8CHP0	-0.74	-1.27	-1.36	-1.93	-0.96	-2.23	-1.95	-1.98	-1.35	0.39	-1.95	-1.97	0.62	-0.01	-1.72	-2.06	-0.455	0.105	0.5325	0.223323	0.850992	0.41055	1	0.995511	0.874811
Zc3h4	E9QBK8	-2.25	-2.55	-1.47	-1.58	-3.02	-2.42	-2.29	-1.96	-1.02	-0.28	-1.21	-1.72	-0.39	-2	-1.83	-1.8	-0.46	0.905	0.4575	0.190218	0.039763	0.307218	1	0.995511	0.832533
Zc3h6	A2APB8	1.95	1.43	1.58	1.71	1.96	1.37	0.19	1.6	2.13	3.27	0.97	1.65	1.99	2.31	1.49	0.44	-0.21	0.375	-0.11	0.423861	0.475891	0.787199	1	0.995511	0.968092
Zc3h7b	FWPVR8	-1.84	-2.01	-0.58	-1.15	-1.61	-1.91	-0.7	-1.03	-1.99	-1.03	-0.64	-1.45	-1.07	-1.99	-0.94	-0.69	0.0825	0.1175	0.2225	0.838006	0.778173	0.59565	1	0.995511	0.929911
Zc3hcl1	H3BKM2	0.17	-1.52	-0.95	-0.59	-0.72	-0.35	-1	-0.98	-0.57	-1.16	-0.23	-0.67	-1.05	-0.67	-0.63	-0.87	-0.04	0.065	-0.0825	0.913201	0.866578	0.819542	1	0.995511	0.972768
Zc3hcl0	FE6ZB1	0.87	1.48	-0.05	0.49	1.27	0.3	0.05	0.79	1.08	0.25	-0.1	0.63	-0.22	1.06	-0.62	0.81	-0.095	-0.2325	-0.33	0.818959	0.557951	0.483365	1	0.995511	0.893925
Zc3hcl7	Q9SKA2	-0.66	-1.13	0.03	0.26	-1.42	-1.73	0.86	-0.48	-0.83	1.18	0.02	-0.86	-0.55	-0.34	0.03	-0.23	-0.3225	0.2475	0.0975	0.597564	0.645039	0.767656	1	0.995511	0.967045
Zc3hcl8	QBYD24	-1.2	-0.05	-0.89	-0.66	-0.07	-1.36	-1.77	-0.99	-1.17	-0.74	-1.13	-0.21	-1.62	-0.57	-0.97	-0.65	-0.3475	0.1375	-0.2525	0.407349	0.679888	0.466113	1	0.995511	0.888548
Zc3hcl8	Q9CYA6	-2.01	-2.61	-0.74	-0.77	-1.82	-0.22	-0.85	-0.79	-3.13	-0.3	-1.5	-2.99	-2.74	-1.02	-0.92	-1.28	0.7225	-0.4475	0.0425	0.22744	0.549651	0.941359	1	0.995511	0.991085
Zor1	Q9Z796-2	-1.11	-1.98	-2.45	-2.45	-1.26	-1.15	-2.71	-2.4	-1.45	-1.1	-3.13	-1.82	0.24	-1.08	-1.3	-2.42	0.1175	0.1225	0.8575	0.802497	0.80887	0.164229	1	0.995511	0.758352
Zc3hcl3	Q9CWJ2	-0.92	-1.84	-0.81	-0.58	-0.25	-0.64	-0.77	-1.04	-0.33	-1.28	-0.78	-0.8	-0.6	-0.94	-0.88	-0.69	0.8325	0.2375	0.21	0.268044	0.484329	0.814632	1	0.995511	0.894615
Zc3hcl4	Q8BQD1	0.04	0.54	0.46	0.83	0.14	0.41	0.96	1.53	1.97	0.93	0.05	0.96	2.66	1.37	0.31	0.02	0.6525	0.035933	0.149631	0.306353	0.70353	0.117	1	0.995511	0.703447
Zc3hcl7	Q8QTN5	-1.23	-1.56	-1.48	-1.19	-0.73	-1.23	-1.25	-1.51	-1.44	-0.7	-1.44	-1.63	-0.61	-0.34	-1.52	-1.37	0.185	0.0625	0.405	0.396367	0.801892	0.21439	1	0.995511	0.786931
Zc3hcl8	Q5YST2	2.19	2.43	-0.64	-0.46	-1.03	1.98	-0.78	-0.29	1.83	1.34	-0.11	1.7	1.72	1.38	0.01	-0.09	-0.395	0.31	-0.13	0.673645	0.715677	0.879044	1	0.995511	0.979626
Zc3hcl2	Q5P267	0.85	0.8	0.67	1.18	0.38	0.55	0.74	1.15	1.05	2.3	1.2	0.8	1.58	0.94	1.39	0.9	-1.70E-01	0.4625	0.3275	0.448763	0.201029	0.19432	1	0.995511	0.778959
Zc3hcl20	Q5YST-1-2	1.15	-0.51	0.22	0.77	0.81	-1.13	0.35	0.79	0.67	4.76	0.26	0.51	0.36	0.63	0.29	-0.21	-0.2025	0.1425	-0.1375	0.705927	0.27912	0.73277	1	0.995511	0.958988
Zc3hcl22	A0PK84	-1.41	-1.14	-0.94	-1.44	0.02	-1.69	-0.13	-1.26	-0.29	-1.99	-0.77	-1.17	-0.52	0.55	-0.35	-1.26	0.4675	0.1775	0.8375	0.273155	0.631349	0.051735	1	0.995511	0.658544
Zc3hcl3	A0A571BE1	-0.28	-0.54	-0.4	-2.73	0.5	-1.36	-3.11	-1.41	-0.85	-2.17	-2.56	-1.2	-0.66	-1.02	-3.96	-0.519	0.6425	0.2925	-0.72	0.561019	0.758031	0.586657	1	0.995511	0.92838
Zc3hcl3	Q8V024	1.57	1.52	1.84	1.69	0.77	1.55	0.87	1.48	1.95	1.35	1.75	1.82	1.7	1.41	1.15	1.36	-0.4875	0.0625	-0.25	0.061931	0.753189	0.233001	1	0.995511	0.788994
Zc3hcl5	Q9CPV7	0.46	0.91	2.02	1.53	1.13	0.35	2.94	2.03	-0.43	2.56	0.87	0.75	1.14	-0.6	2.37	4.05	0.3825	-0.2925	0.26	0.527894	0.650973	0.794617	1	0.995511	0.969267
Zc3hcl8	Q5YST5	0.48	0.82	1.21	1.13	0.42	0.63	0.38	0.77	1	1.12	1.39	0.68	0.38	1	0.66	1.04	-0.36	0.1375	-0.14	0.121953	0.58053	0.589898	1	0.995511	0.925142
Zc3hcl9	P59268	0.62	0.94	1.31	0.68	0.83	0.41	0.77	0.77	0.6	1.97	0.95	0.56	0.33	0.49	1.56	0.89	-0.1925	0.1325	-0.07	0.374334	0.710391	0.827558	1	0.995511	0.937357
Zer1	A0A4318	-1.47	-1.52	-1.19	-2.18	-1.3	-1.49	-1.58	-2.15	-2.15	-1.66	-1.25	-1.89	-1.46	-2.07	-2.26	-1.94	0.1375	0.03	-0.165	0.596586	0.91139	0.339075	1	0.995511	0.912212
Zer2	A0A099VF	1.87	-0.24	-2.23	-2.4	-1.3	0.23	-2.69	-3.52	1.07	-1.43	-2.69	-1.53	-0.14	0.03	-2.42	-3.02	-1.07	0.37	-0.6375	0.366532	0.771365	0.576756	1	0.995511	0.927198
Zer1	Q8QZ6	0.41	-0.34	-1.06	-1.11	-0.35	0.53	-1.14	-0.83	0.3	-1.3	-0.84	-0.46	-0.59	-0.63	-1.57	1.48	0.0775	0.03	-0.5425	0.868848	0.950698	0.223025	1	0.995511	0.787447
Zfa	P23607	-2.39	-1.63	-1.59	-0.64	-0.21	-2.08	-0.8	-0.7	0.68	-0.46	-1.21	-2.38	1.56	-0.64	-0.42	-0.04	0.72	0.72	1.8875	0.207648	0.299517	0.00682	1	0.995511	0.552614
Zfand1	Q8RF86	1.12	1.1	0.67	1.29	0.51	0.33	0.09	1.02	0.77	-1.05	0.09	0.6	0.94	0.68	-0.64	-0.1	-0.5575	-0.9425	-0.8205	0.049491	0.044867	0.052582	1	0.995511	0.659923
Zfand2b	Q91X58	0.5	0.63	1.15	0.83	0.3	0.11	-0.48	0.35	0.83	1.48	0.56	1.1	1.05	1.35	0.93	0.43	-0.575	0.15	0.1625	0.010904	0.41388	0.343968	1	0.995511	0.912122
Zfand5	Q8B878	-1.35	-1.5	-1.03	-0.95	-0.68	-1.22	-1.91	-1.53	-0.8	-0.52	-0.84	-0.32	0.35	-1.45	-0.31	-0.1275	0.4625	0.5275	0.657719	0.043484	0.2346	0.790657	1	0.995511	0.790657
Zfand6	Q9OCN6	-0.61	-0.71	-1.15	-0.98	-0.77	-0.7	-1.67	-0.92	-0.07	0.04	-1.15	-0.3	-0.34	0.69	-1.04	-1.58	-0.1525	0.4925	0.295	0.565747	0.133006	0.538427	1	0.995511	0.912122
Zfcl3h1	BZRT41	0.27	-0.04	-2.5	-1.64	-1.8	-0.41	-1.51	-0.93	0.34	-1.94	-1.83	0.36	1.73	-0.5	-1.99	-1.6	-1.85	0.21	0.3875	0.779516	0.800957	0.685295	1	0.995511	0.955729
Zfp180a	Q6N29	-2.38	-2.11	-1.81	-1.07	-1.28	-1.44	-2.38	-2.24	-0.22	-2.51	-1.48	-1.45	-0.99	-0.82	-0.68	-1.64	0.0075	0.4275	0.81	0.984094	0.409394	0.043512	1	0.995511	0.658454
Zfp219	Q4V488	0.15	-0.51	0.22	0.77	0.81	-1.13	0.35	0.79	0.67	4.76	0.26	0.51	0.36	0.63	0.29	-0.21	-0.2025	0.1425	-0.1375	0.705927	0.27912	0.73277	1	0.995511	0.958988
Zfp280d	V9GW1	0.96	-2.67	-1.46	-0.86	-3.48	-2.08	-1.11	1.62	-0.24	2.78	1.99	-1.31	-1.14	-0.33	1.67	2.04	-0.86	0.6525	0.4075	0.541064	0.590044	0.709734	1	0.995511	0.957763
Zfp324	Z07842	-3.76	-2.84	-4.45	-4.72	-1.3	-1.95	-3.42	-4	1.82	-3.93	-2.42	-1.33	1.39	3.48	-2.77	-3.25	1.2705	1.9775	1.655	0.090194	0.132907	0.350507	1	0.995511	0.651434
Zfp326	A0A0R409	0.68	0.04	-0.05	-0.12	-0.52	0.05	-0.7	0.27	0.53	0.01	-0.46	-0.82	0.25	-0.25	0.31	-0.83	-0.3625	-0.5875	-0.2675	0.237714	0.052896	0.421244	1	0.995511	0.875782
Zfp346	E9PNY2	1.02	-0.18	-0.97	-1.72	-0.29	-0.58	-1.47	-0.93	-0.2	0.53	-2.59	1.04	0.98	0.62	-1.86	1.23	-0.355	-0.3625	0.09	0.546095	0.654034	0.912119	1	0.995511	0.986458
Zfp362	E9QJ68	-1.19	-1.86	-0.32	1.99	-0.73	-0.9	3.22	3.57	0.12	1	4.39	1.37	0.92	-1.16	4.8	5.77	0.075	0.32	1.8675	0.967428	0.844363	0.334519	1	0.995511	0.846677
Zfp3602	P23949	-0.51	-0.92	-0.99	-0.69	-1.07	-0.66	-1.87	-0.76	-0.42	0.7	-0.8	-1.25	0.94	0.19	-1.04	-1.58	-0.3125	0.335	0.405	0.304845	0.423685	0.46044	1	0.995511	0.887902
Zfp37	A0A1Y7JF	0.29	0.23	-1.17	-0.84	-0.02	0.41	-2.39	-1.07	0.51	2.31	-1.74	-0.27	-0.57	0.3	0.52	-4.99	-0.395	0.575	-0.4375	0.553155	0.495577	0.626681	1	0.995511	0.939737
Zfp385a	A0A2R8V8	0.06	-1.51	-1.73	-1.14	1.2	-0.55	-1.03	-1.39	-1.97	-1.68	-1.61	-0.78	-1.12	-0.99	-0.43	-1.19	0.3875	-0.18	0.3975	0.550032	0.722659	0.416289	1	0.995511	0.874945
Zfp385b	Q5ERY4	0.97	-0.4	-3.48	-2.1	0.02	0.69	-2.38	-3.07	0.45	-2.18	-2.71	-0.44	1.14	-0.43	-1.97	-0.87	0.0075	0.025	0.72	0.554796	0.574953	0.485764	1	0.995511	0.897595
Zfp428	H3BHL5	-0.37	-0.27	-1.52	-2.18	0.2	-0.51	-2.61	-2.08	-1.88	-2.1	-0.83	-0.24	-1.71	-0.51	-0.37	-2.6	-1.065	-0.1775	-0.2125	0.820554	0.762198	0.740514	1	0.995511	0.958796
Zfp512b	Q6PMP4	-0.24	-1.06	-1.8	-0.71	-1.7	0.15	0.11	0.3	0.05	-1.82	0.04	-0.78	0.38	-1.5	-1.51	-1.04	0.6675	0.325	0.035	0.228917	0.530066	0.945761	1	0.995511	0.992376
Zfp532	S4R29	0.69	0.3	-0.15	-0.1	0.25	0.37	0.35	0.13	-0.11	-0.28	0.2	0.35	0.23	0.48	0.35	0.58	0.09	-0.145	0.225	0.699481	0.582725	0.732341	1	0.995511	0.859424
Zfp538	A0A4N4SV	0.36	-1.02	1.14	-0.8	-0.74	-0.23	0.15	0.72	-0.26	-0.57	-0.9	-1.59	0.43	-0.5	-1.44	-1.18	-0.06	-0.105	0.2775	0.872338	0.783469	0.543718	1	0.995511	0.912122
Zfp651	A0A1157H	1.06	-0.56	-0.42	-4.92																					









REACTOME_HATS_ACET	-0.92424	0.558538	1	REACTOME_HATS_ACETYLATE_HISTONES	-1.0736	0.352743	0.813722	REACTOME_HATS_ACETY	0.935814	0.548245	0.940096
REACTOME_PYRUVATE	1.590145	0.015304	0.256602	REACTOME_PYRUVATE_METABOLISM_AND_CITRIC_AC	1.105609	0.312047	0.814205	REACTOME_PYRUVATE_N	-1.58021	0.014303	0.08627
REACTOME_REGULATIO	0.665462	0.920248	1	REACTOME_REGULATION_OF_TP53_ACTIVITY_THROU	-1.05907	0.36227	0.815872	REACTOME_REGULATION	1.029514	0.423462	0.810503
REACTOME_BUTYRATE	1.277572	0.176534	0.771937	REACTOME_BUTYRATE_RESPONSE_FACTOR_1_BRF1_E	1.106795	0.337664	0.816065	REACTOME_BUTYRATE_R	1.6344	0.017138	0.093821
REACTOME_PROCESSIN	-1.74344	0.007442	0.417122	REACTOME_PROCESSING_OF_DNA_DOUBLE_STRAND	-1.04874	0.379032	0.822112	REACTOME_PROCESSING	-0.99558	0.447717	0.587929
BIOCARTA_BIOPEPTIDES	1.332733	0.124695	0.695955	BIOCARTA_BIOPEPTIDES_PATHWAY	-1.04908	0.375556	0.824649	BIOCARTA_BIOPEPTIDES	-1.42073	0.072472	0.148162
REACTOME_TP53_REGU	-1.17106	0.270225	0.89327	REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_CI	1.099492	0.350799	0.828519	REACTOME_TP53_REGUL	0.66122	0.903452	0.958092
REACTOME_TNFR1_IND	-0.5402	0.981908	1	REACTOME_TNFR1_INDUCED_NFKAPPAB_SIGNALING	1.088974	0.341104	0.828993	REACTOME_TNFR1_IND	0.659592	0.909621	0.969631
REACTOME_G2_M_DNA	-1.75926	0.004176	0.468303	REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT	-1.0494	0.375561	0.83104	REACTOME_G2_M_DNA	-1.01798	0.413032	0.560677
WP_PARKINSONS_DISE	-0.9193	0.576774	1	WP_PARKINSONS_DISEASE	1.089349	0.35612	0.833314	WP_PARKINSONS_DISEAS	-1.08707	0.33175	0.463141
REACTOME_RNA_POLYM	-1.67673	0.00763	0.523239	REACTOME_RNA_POLYMERASE_II_TRANSCRIBES_SNRI	1.096175	0.314178	0.83356	REACTOME_RNA_POLYM	1.079656	0.345208	0.736845
REACTOME_RAP1_SIGN	-0.83059	0.684298	1	REACTOME_RAP1_SIGNALING	1.090593	0.353098	0.834824	REACTOME_RAP1_SIGNA	-1.44689	0.08144	0.133244
REACTOME_REGULATIO	-0.90322	0.584888	1	REACTOME_REGULATION_OF_APC_C_ACTIVATORS_BE	-1.0497	0.386931	0.835593	REACTOME_REGULATION	-1.10993	0.316812	0.429714
REACTOME_PCC_CE_PA	1.053595	0.351472	0.963622	REACTOME_PCC_CE_PATHWAY	-1.05018	0.346167	0.839564	REACTOME_PCC_CE_PAT	1.92088	0	0.019841
REACTOME_NRRAGE_SIG	-1.06785	0.354317	1	REACTOME_NRRAGE_SIGNALS_DEATH_THROUGH_JNK	1.090621	0.328269	0.840406	REACTOME_NRRAGE_SIG	-1.16434	0.224683	0.360168
REACTOME_INTERLEUK	-1.36461	0.077395	0.786247	REACTOME_INTERLEUKIN_17_SIGNALING	1.091466	0.335468	0.843367	REACTOME_INTERLEUKIN	-0.70856	0.928317	0.932968
REACTOME_RUNX1_INT	-1.42453	0.074851	0.672641	REACTOME_RUNX1_INTERACTS_WITH_CO_FACTORS_I	1.074507	0.366419	0.859106	REACTOME_RUNX1_INTE	1.336965	0.126192	0.347222
REACTOME_ADAPTIVE_I	-0.66494	1	1	REACTOME_ADAPTIVE_IMMUNE_SYSTEM	1.077419	0.286228	0.860933	REACTOME_ADAPTIVE_IN	-1.09089	0.144397	0.460055
REACTOME_REGULATIO	0.831373	0.686149	1	REACTOME_REGULATION_OF_TP53_DEGRADATION	1.06879	0.375459	0.861068	REACTOME_REGULATION	-0.73332	0.838528	0.91374
REACTOME_BINDING_A	1.312886	0.158933	0.704277	REACTOME_BINDING_AND_UPTAKE_OF_LIGANDS_BY	1.075583	0.370059	0.861298	REACTOME_BINDING_AN	1.1973	0.243072	0.513739
REACTOME_DDX58_IFH	0.845499	0.675136	1	REACTOME_DDX58_IFIH1_MEDIATED_INDUCION_OF	1.069669	0.370818	0.863763	REACTOME_DDX58_IFH1	1.215804	0.21503	0.494834
WP_NOTCH_SIGNALING	-1.11973	0.310609	0.984549	WP_NOTCH_SIGNALING_PATHWAY	1.070563	0.371752	0.866515	WP_NOTCH_SIGNALING_I	0.895506	0.603488	0.971101
REACTOME_SPHINGOLIP	1.688962	0.018579	0.171063	REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS	-1.03272	0.403265	0.869918	REACTOME_SPHINGOLIP	1.636504	0.020756	0.095334
REACTOME_GLUCEONE	0.706645	0.878478	1	REACTOME_GLUCEONEGENESIS	-1.02458	0.406993	0.874796	REACTOME_GLUCEONEG	-1.27604	0.150968	0.25733
REACTOME_RND3_GTP	1.20022	0.213466	0.803594	REACTOME_RND3_GTPASE_CYCLE	-1.01785	0.421068	0.875318	REACTOME_RND3_GTPAS	0.725217	0.851228	1
REACTOME_NEUROTRAI	0.671864	0.95693	1	REACTOME_NEUROTRANSMITTER_RELEASE_CYCLE	-1.02275	0.413625	0.875463	REACTOME_NEUROTRAN	-1.71296	0.00494	0.049147
REACTOME_MUSCLE_CC	-0.92762	0.594425	1								





REACTOME_GABA_SYNTH	-0.66681	0.894592	1	REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_AI	-0.87133	0.632212	1	REACTOME_GABA_SYNTH	-1.51134	0.050362	0.11131
REACTOME_CELL_CELL_	0.684072	0.915698	1	REACTOME_CELL_CELL_JUNCTION_ORGANIZATION	0.606299	0.958683	1	REACTOME_CELL_CELL_JU	-1.51199	0.034597	0.111608
BIOCARTA_BCR_PATHW	1.137683	0.288996	0.867215	BIOCARTA_BCR_PATHWAY	-0.84167	0.679195	1	BIOCARTA_BCR_PATHWA	-1.50002	0.052508	0.114267
BIOCARTA_IGF1R_PATH	0.49427	0.988233	1	BIOCARTA_IGF1R_PATHWAY	-0.56228	0.970233	1	BIOCARTA_IGF1R_PATHW	-1.50086	0.048046	0.115185
REACTOME_CTLA4_INHI	1.272685	0.175242	0.754684	REACTOME_CTLA4_INHIBITORY_SIGNALING	0.412238	0.997093	1	REACTOME_CTLA4_INHIB	-1.48453	0.056136	0.116948
REACTOME_DAP12_INT	1.06458	0.367064	0.959323	REACTOME_DAP12_INTERACTIONS	0.545814	0.96601	1	REACTOME_DAP12_INTEI	-1.49002	0.060861	0.117156
REACTOME_DNA_REPLIC	0.673755	0.96342	1	REACTOME_DNA_REPLICATION_PRE_INITIATION	-0.70858	0.945946	1	REACTOME_DNA_REPLICA	-1.48216	0.020649	0.117226
WP_WNT_SIGNALING_P	-1.29395	0.14398	0.848239	WP_WNT_SIGNALING_PATHWAY_WP403	0.665778	0.906304	1	WP_WNT_SIGNALING_PA	-1.49061	0.041506	0.117492
REACTOME_UCH_PROT	0.798368	0.832137	1	REACTOME_UCH_PROTEINASES	-0.86736	0.719429	1	REACTOME_UCH_PROTEI	-1.48665	0.019351	0.117552
REACTOME_CYCLIN_A_C	0.573978	0.994059	1	REACTOME_CYCLIN_A_CDK2_ASSOCIATED_EVENTS_AI	0.650607	0.95471	1	REACTOME_CYCLIN_A_CE	-1.48463	0.027328	0.117561
REACTOME_CLATHRIN_I	-0.97711	0.501618	1	REACTOME_CLATHRIN_MEDIATED_ENDOCYTOSIS	0.854705	0.738632	1	REACTOME_CLATHRIN_M	-1.49238	0.007323	0.117656
REACTOME_REGULATIO	0.914543	0.583446	1	REACTOME_REGULATION_OF_RUNX3_EXPRESSION_AI	-0.57435	0.992671	1	REACTOME_REGULATION	-1.48253	0.030812	0.117684
REACTOME_GAP_JUNCT	0.64946	0.937734	1	REACTOME_GAP_JUNCTION_TRAFFICKING_AND_REGL	0.750063	0.81832	1	REACTOME_GAP_JUNCTI	-1.49396	0.038835	0.11807
REACTOME_RECOGNITI	-1.45863	0.070707	0.620041	REACTOME_RECOGNITION_OF_DNA_DAMAGE_BY_PC	0.837074	0.678613	1	REACTOME_RECOGNITIOI	-1.49256	0.062045	0.118291
REACTOME_TRANSCRIP	-0.78041	0.827955	1	REACTOME_TRANSCRIPTIONAL_REGULATION_BY_RUN	-0.58654	0.989974	1	REACTOME_TRANSCRIPTI	-1.4784	0.02474	0.118506
REACTOME_SPHINGOLIP	1.789229	0.001842	0.110671	REACTOME_SPHINGOLIPID_METABOLISM	0.823081	0.75104	1	REACTOME_SPHINGOLIP	1.579735	0.013668	0.119143
REACTOME_EGFR_DOW	-1.01579	0.435305	1	REACTOME_EGFR_DOWNREGULATION	-0.85408	0.667555	1	REACTOME_EGFR_DOWN	-1.47405	0.058421	0.120298
REACTOME_CA_DEPENC	0.569715	0.971466	1	REACTOME_CA_DEPENDENT_EVENTS	-0.88386	0.628664	1	REACTOME_CA_DEPENDE	-1.47437	0.053905	0.12075
REACTOME_GAP_JUNCT	-0.76857	0.778661	1	REACTOME_GAP_JUNCTION_ASSEMBLY	0.901167	0.595406	1	REACTOME_GAP_JUNCTI	-1.4669	0.064541	0.124281
REACTOME_RUNX1_REC	0.614079	0.983838	1	REACTOME_RUNX1_REGULATES_TRANSCRIPTION_OF_	-0.61886	0.984355	1	REACTOME_RUNX1_REGL	-1.46773	0.027239	0.124372
REACTOME_CELL_CELL_	-0.5927	0.993029	1	REACTOME_CELL_CELL_COMMUNICATION	0.769424	0.843636	1	REACTOME_CELL_CELL_C	-1.4644	0.026316	0.125441
REACTOME_ASSEMBLY_	0.678233	0.958219	1	REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_CC	-0.69541	0.956317	1	REACTOME_ASSEMBLY_O	-1.46003	0.028031	0.128065
REACTOME_CARGO_REC	-1.23226	0.141955	0.849235	REACTOME_CARGO_RECOGNITION_FOR_CLATHRIN_M	0.892544	0.648764	1	REACTOME_CARGO_REC	-1.45592	0.021862	0.129025
REACTOME_TOLL_LIKE_	-1.33729	0.062468	0.791833	REACTOME_TOLL_LIKE_RECEPTOR_CASCADES	0.750835	0.895671	1	REACTOME_TOLL_LIKE_RI	-1.45139	0.018304	0.131907
WP_INSULIN_SIGNALIN	-0.97756	0.493233	1	WP_INSULIN_SIGNALING	-0.872825	0.827281	1	WP_INSULIN_SIGNALING	-1.44001	0.006748	0.137256
WP_ALPHA_6_BETA_4_I	-0.59087	0.987595	1	WP_ALPHA_6_BETA_4_INTEGRIN_SIGNALING_PATHW	0.927647	0.570634	1	WP_ALPHA_6_BETA_4_IN	-1.42814	0.03947	0.144096
REACTOME_MACROAUT	-0.82333	0.165569	1	REACTOME_MACROAUTOPHAGY	-0.81135	0.880677	1	REACTOME_MACROAUT	-1.42982	0.013587	0.14424
REACTOME_INTRACELL	-0.63652	0.999013	1	REACTOME_INTRACELLULAR_SIGNALING_BY_SECOND	-0.83918	0.898951	1	REACTOME_INTRACELLUL	-1.42328	0.003595	0.14675
REACTOME_GPIV_MEDI	-1.06387	0.375231	1	REACTOME_GPIV_MEDIATED_ACTIVATION_CASCADE	0.645463	0.915936	1	REACTOME_GPIV_MEDIA	-1.41378	0.078775	0.15192
BIOCARTA_AT1R_PATHW	1.342265	0.127562	0.730257	BIOCARTA_AT1R_PATHWAY	-0.82097	0.714133	1	BIOCARTA_AT1R_PATHW	-1.41542	0.088974	0.152094
REACTOME_MAP2K_AN	0.873013	0.652781	1	REACTOME_MAP2K_AND_MAPK_ACTIVATION	0.667654	0.917633	1	REACTOME_MAP2K_AND	-1.40707	0.06302	0.156464
REACTOME_TRANSCRIP	0.766211	0.859553	1	REACTOME_TRANSCRIPTIONAL_REGULATION_BY_RUN	-0.64861	0.976509	1	REACTOME_TRANSCRIPT	-1.39386	0.049621	0.165416
REACTOME_NEUTROPH	1.062684	0.270559	0.951827	REACTOME_NEUTROPHIL_DEGRANULATION	-0.82512	0.97343	1	REACTOME_NEUTROPHIL	-1.38858	7.53E-04	0.168596
REACTOME_INTERLEUKI	-0.5653	0.973116	1	REACTOME_INTERLEUKIN_3_INTERLEUKIN_5_AND_GN	0.859028	0.660398	1	REACTOME_INTERLEUKIN	-1.3888	0.077304	0.169252
REACTOME_PTEIN_REGL	-0.63259	0.992335	1	REACTOME_PTEIN_REGULATION	-0.81438	0.857972	1	REACTOME_PTEIN_REGU	-1.38115	0.027499	0.174951
REACTOME_G_BETA_GA	-0.81052	0.71282	1	REACTOME_G_BETA_GAMMA_SIGNALING_THROUGH	-0.78814	0.749611	1	REACTOME_G_BETA_GAN	-1.3743	0.115375	0.180898
REACTOME_PLATELET_A	0.968173	0.535961	1	REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_	0.736904	0.955107	1	REACTOME_PLATELET_AC	-1.36209	0.013103	0.190874
REACTOME_SIGNALING	0.782168	0.980239	1	REACTOME_SIGNALING_BY_RECEPTOR_TYROSINE_KIN	-0.80444	0.983199	1	REACTOME_SIGNALING_E	-1.35642	0.001314	0.195765
REACTOME_HEMOSTAS	0.832615	0.951269	1	REACTOME_HEMOSTASIS	0.840995	0.855465	1	REACTOME_HEMOSTASIS	-1.34943	0.009076	0.200553
REACTOME_RECEPTOR	0.90576	0.582005	1	REACTOME_RECEPTOR_TYPE_TYROSINE_PROTEIN_PHI	-0.59942	0.952919	1	REACTOME_RECEPTOR_T	-1.3469	0.115855	0.201376
REACTOME_INTERLEUKI	-0.74928	0.907761	1	REACTOME_INTERLEUKIN_1_FAMILY_SIGNALING	0.669574	0.962733	1	REACTOME_INTERLEUKIN	-1.33972	0.052971	0.206322
WP_SPLICING_FACTOR_	-1.24716	0.155871	0.862187	WP_SPLICING_FACTOR_NOVA_REGULATED_SYNAPTIC	0.926437	0.577155	1	WP_SPLICING_FACTOR_N	-1.33638	0.088367	0.209161
REACTOME_MHC_CLASS	1.135414	0.227186	0.867303	REACTOME_MHC_CLASS_II_ANTIGEN_PRESENTATION	0.670607	0.964542	1	REACTOME_MHC_CLASS_	-1.33266	0.046857	0.212383
REACTOME_DISASSEMB	-0.72615	0.833821	1	REACTOME_DISASSEMBLY_OF_THE_DESTRUCTION_CC	0.781509	0.755427	1	REACTOME_DISASSEMBL	-1.3228	0.123692	0.221738
REACTOME_SIGNALING	0.73016	0.858029	1	REACTOME_SIGNALING_BY_ERBB2	-0.74582	0.853558	1	REACTOME_SIGNALING_E	-1.31784	0.110371	0.225517
REACTOME_CARBOXYTE	-0.67842	0.870865	1	REACTOME_CARBOXYTERMINAL_POST_TRANSLATION	0.859187	0.653115	1	REACTOME_CARBOXYTER	-1.3168	0.143072	0.225665
REACTOME_SELECTIVE	-0.74707	0.879316	1	REACTOME_SELECTIVE_AUTOPHAGY	0.795832	0.787191	1	REACTOME_SELECTIVE_A	-1.3128	0.081486	0.227291
REACTOME_SIGNALING	-0.63662	0.99154	1	REACTOME_SIGNALING_BY_HEDGEHOG	0.728318	0.929529	1	REACTOME_SIGNALING_E	-1.31157	0.045098	0.227763
REACTOME_RIPK1_MED	1.260382	0.178185	0.744963	REACTOME_RIPK1_MEDIATED_REGULATED_NECROSIS	0.854362	0.654911	1	REACTOME_RIPK1_MEDI	-1.29647	0.148659	0.243089
REACTOME_NETRIN_1_S	-0.49617	0.985518	1	REACTOME_NETRIN_1_SIGNALING	0.543622	0.969653	1	REACTOME_NETRIN_1_SI	-1.29209	0.159216	0.246548
BIOCARTA_EIF4_PATHW	0.86008	0.637058	1	BIOCARTA_EIF4_PATHWAY	-0.82783	0.697137	1	BIOCARTA_EIF4_PATHWA	-1.28804	0.155757	0.250624
REACTOME_INTEGRIN_S	0.470785	0.975521	0.999348	REACTOME_INTEGRIN_SIGNALING	0.777168	0.775343	1	REACTOME_INTEGRIN_SIK	-1.2822	0.138777	0.251657
BIOCARTA_RAS_PATHW	0.638994	0.917236	1	BIOCARTA_RAS_PATHWAY	-0.80089	0.734815	1	BIOCARTA_RAS_PATHWA	-1.28055	0.166323	0.252664
BIOCARTA_IL2RB_PATH	0.709064	0.858305	1	BIOCARTA_IL2RB_PATHWAY	0.440472	0.995531	1	BIOCARTA_IL2RB_PATHW	-1.27485	0.160582	0.257577
REACTOME_G1_S_TRAN	0.752272	0.885306	1	REACTOME_G1_S_TRANSITION	0.750935	0.859915	1	REACTOME_G1_S_TRANS	-1.27153	0.092665	0.260015
BIOCARTA_NFAT_PATHW	0.908944	0.57823	1	BIOCARTA_NFAT_PATHWAY	0.737781	0.836625	1	BIOCARTA_NFAT_PATHW	-1.2718	0.145297	0.260722
REACTOME_RAC1_PATH	-0.77187	0.769849	1	BIOCARTA_RAC1_PATHWAY	-0.6124	0.940724	1	BIOCARTA_RAC1_PATHW	-1.26683	0.175032	0.262942
WP_IL7_SIGNALING_PAT	-0.87124	0.656966	1	WP_IL7_SIGNALING_PATHWAY	-0.67712	0.92994	1	WP_IL7_SIGNALING_PAT	-1.2669	0.143292	0.263936
WP_PROTEASOME_DEG	0.598935	0.50624	1	WP_PROTEASOME_DEGRADATION	0.555621	0.987977	1	WP_PROTEASOME_DEGR	-1.26396	0.124103	0.265583
WP_EPO_RECEPTOR_SIK	0.570185	0.966874	1	WP_EPO_RECEPTOR_SIGNALING	-0.44836	0.996841	1	WP_EPO_RECEPTOR_SIG	-1.25584	0.177081	0.271018
REACTOME_SIGNALING	0.712369	0.857955	1	REACTOME_SIGNALING_TO_ERKS	-0.77098	0.787177	1	REACTOME_SIGNALING_	-1.25625	0.179144	0.271584
REACTOME_CELLULAR_I	0.919685	0.558584	1	REACTOME_CELLULAR_RESPONSE_TO_HYPOXIA	0.817333	0.749495	1	REACTOME_CELLULAR_RI	-1.25276	0.126679	0.272965
WP_INTEGRINMEDIATE	-0.7063	0.945404	1	WP_INTEGRINMEDIATED_CELL_ADHESION	0.748784	0.879053	1	WP_INTEGRINMEDIATE	-1.25325	0.098712	0.273402
REACTOME_ACTIVATION	0.850026	0.662136	1	REACTOME_ACTIVATION_OF_BH3_ONLY_PROTEINS	-0.84603	0.662214	1	REACTOME_ACTIVATION	-1.24388	0.199289	0.280694
REACTOME_PKMTS_ME	-1.43903	0.07211	0.679156	REACTOME_PKMTS_METHYLATE_HISTONE_LYSINES	0.886685	0.609186	1	REACTOME_PKMTS_METI	1.406814	0.088662	0.282338
REACTOME_SIGNAL_TRA	0.998654	0.452941	1	REACTOME_SIGNAL_TRANSDUCTION_BY_L1	-0.70857	0.861192	1	REACTOME_SIGNAL_TRAI	-1.24056	0.1946	0.284204
WP_FIBRIN_COMPLEME	-1.1435	0.287749	0.945639	WP_FIBRIN_COMPLEMENT_RECEPTOR_3_SIGNALING	0.775005	0.777971	1	WP_FIBRIN_COMPLEMEN	-1.23414	0.18667	0.290969
BIOCARTA_GLEEVEC_PA	0.702573	0.850109	1	BIOCARTA_GLEEVEC_PATHWAY	-0.50433	0.968975	1	BIOCARTA_GLEEVEC_PAT	-1.22701	0.203145	0.297658
BIOCARTA_TNFR1_PATH	-0.82296	0.70808	1	BIOCARTA_TNFR1_PATHWAY	-0.83261	0.694518	1	BIOCARTA_TNFR1_PATHV	-1.22516	0.19746	0.298061
REACTOME_RAF_ACTIV	0.745501	0.842094	1	REACTOME_RAF_ACTIVATION	-0.81168	0.766589	1	REACTOME_RAF_ACTIVAT	-1.22587	0.179466	0.298174
REACTOME_S_PHASE	-1.03929	0.381941	1	REACTOME_S_PHASE	0.774958	0.852129	1	REACTOME_S_PHASE	-1.21799	0.124367	0.306268
REACTOME_SIGNALING	0.612224	0.981153	1	REACTOME_SIGNALING_BY_MET	0.75943	0.830641	1	REACTOME_SIGNALING_E	-1.2148	0.156467	0.308552
REACTOME_SIGNALING	-0.8983	0.798958	1	REACTOME_SIGNALING_BY_RHO_GTPASES_MIRO_GTI	-0.80663	1	REACTOME_SIGNALING_E	-1.20944	0.015625	0.314059	
BIOCARTA_KERATINOCY	0.945053	0.529711	1	BIOCARTA_KERATINOCYTE_PATHWAY	0.530353	0.984497	1	BIOCARTA_KERATINOCYT	-1.2075	0.196345	0.314684
REACTOME_SUMOYLATI	-1.08181	0.350574	1	REACTOME_SUMOYLATION_OF_TRANSCRIPTION_COF	0.761484	0.782167	1	REACTOME_SUMOYLATIC	1.369061	0.102482	0.318387
REACTOME_P75_NTR_R	-1.07036	0.339626	1	REACTOME_P75_NTR_RECEPTOR_MEDIATED_SIGNALL	0.805694	0.777474	1	REACTOME_P75_NTR_RI	-1.19819	0.164155	0.321549
REACTOME_UB_SPECIFI	0.974481	0.512989	1	REACTOME_UB_SPECIFIC_PROCESSING_PROTEASES	-0.78711	0.920974	1	REACTOME_UB_SPECIFIC	-1.1924	0.129412	0.329163
WP_MYOMETRIAL_REL	-0.98713	0.471801	1	WP_MYOMETRIAL_RELAXATION_AND_CONTRACTION	-0.77214	0.928829	1	WP_MYOMETRIAL_RELAX	-1.1914	0.129082	0.329553
REACTOME_NEGATIVE_	0.701313	0.940124	1	REACTOME_NEGATIVE_REGULATION_OF_THE_PI3K_AI	-0.76239	0.895882	1	REACTOME_NEGATIVE_RI	-1.18993	0.160782	0.330576
REACTOME_RET_SIGNAI	-0.71855	0.86075	1	REACTOME_RET_SIGNALING	0.620656	0.941726	1	REACTOME_RET_SIGNALI	-1.18304	0.224292	0.340049
REACTOME_RHOV_GTP	1.167351	0.240749	0.851422	REACTOME_RHOV_GTPASE_CYCLE	-0.73218	0.882845	1	REACTOME_RHOV_GTPA	-1.17819	0.209296	0.346426
REACTOME_PURINE_CA	0.870606	0.624702	1	REACTOME_PURINE_CATABOLISM	0.766066	0.770551	1	REACTOME_PURINE_CAT	-1.17268	0.254495	0.352919
REACTOME_NEDDYLATI	-0.75528	0.953701	1	REACTOME_NEDDYLIATION	0.891965	0.688273	1	REACTOME_NEDDYLATI	-1.17302	0.118365	0.353608
REACTOME_SEALING_O	-0.84464	0.683593	1	REACTOME_SEALING_OF_THE_NUCLEAR_ENVELOPE_N	0.77964	0.765056	1	REACTOME_SEALING_OF	-1.16477	0.248087	0.360751
REACTOME_RHOV_GTP	0.885422	0.6									



BIOCARTA_PAR1_PATHW	0.61563	0.927598	1	BIOCARTA_PAR1_PATHWAY	0.519022	0.977162	1	BIOCARTA_PAR1_PATHW	-1.11529	0.311541	0.423987
BIOCARTA_MTOR_PATH	-0.68381	0.873654	1	BIOCARTA_MTOR_PATHWAY	0.493782	0.985015	1	BIOCARTA_MTOR_PATHW	-1.10187	0.323049	0.441936
WP_IL2_SIGNALING_PA	-1.00531	0.443154	1	WP_IL2_SIGNALING_PATHWAY	0.697745	0.922421	1	WP_IL2_SIGNALING_PATH	-1.10022	0.288703	0.443631
REACTOME_GENE_EXPR	-1.24182	0.026551	0.846214	REACTOME_GENE_EXPRESSION_TRANSCRIPTION	0.903882	0.753236	1	REACTOME_GENE_EXPRE	1.245406	0.029905	0.4506
REACTOME_ABC_FAMIL	-0.81265	0.872304	1	REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRAN	0.801231	0.808822	1	REACTOME_ABC_FAMILY	1.247527	0.136062	0.450789
REACTOME_NEGATIVE_	-0.84599	0.673305	1	REACTOME_NEGATIVE_REGULATION_OF_MET_ACTIVI	-0.57806	0.96124	1	REACTOME_NEGATIVE_RI	-1.08731	0.345117	0.464114
BIOCARTA_FMLP_PATH	1.075289	0.359103	0.941757	BIOCARTA_FMLP_PATHWAY	-0.76525	0.79535	1	BIOCARTA_FMLP_PATHW	-1.08745	0.339108	0.465317
REACTOME_COPI_INDEP	0.958992	0.510417	1	REACTOME_COPI_INDEPENDENT_GOLGI_TO_ER_RETR	0.69041	0.906682	1	REACTOME_COPI_INDEPE	-1.08153	0.315293	0.469495
REACTOME_PROGRAMM	0.84881	0.773359	1	REACTOME_PROGRAMMED_CELL_DEATH	0.893691	0.659248	1	REACTOME_PROGRAMM	-1.07794	0.283849	0.473545
REACTOME_MYD88_MA	-1.42943	0.043285	0.697046	REACTOME_MYD88_MAL_TIRAP_CASCADE_INITIATED	0.832045	0.740367	1	REACTOME_MYD88_MAL	-1.0786	0.305107	0.473745
REACTOME_REGULATIO	0.799841	0.846374	1	REACTOME_REGULATION_OF_MRNA_STABILITY_BY_P	0.658976	0.965052	1	REACTOME_REGULATION	-1.07517	0.298898	0.475985
REACTOME_G_ALPHA_1	-0.95733	0.528676	1	REACTOME_G_ALPHA_12_13_SIGNALLING_EVENTS	0.749896	0.862378	1	REACTOME_G_ALPHA_12	-1.07525	0.32424	0.477327
REACTOME_TOLL_LIKE	-1.23646	0.139099	0.843758	REACTOME_TOLL_LIKE_RECEPTOR_4_TLR4_CASCADE	0.879135	0.67481	1	REACTOME_TOLL_LIKE_RI	-1.07124	0.311033	0.482438
BIOCARTA_TFF_PATHW	0.733245	0.811679	1	BIOCARTA_TFF_PATHWAY	-0.69996	0.842602	1	BIOCARTA_TFF_PATHWA	-1.06807	0.372052	0.487271
REACTOME_POST_TRAN	1.770477	0.007579	0.11617	REACTOME_POST_TRANSLATIONAL_MODIFICATION_S	-0.57346	0.982117	1	REACTOME_POST_TRAN	1.217399	0.205628	0.49631
REACTOME_INTRINSIC_I	0.662432	0.92662	1	REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS	-0.79631	0.783378	1	REACTOME_INTRINSIC_P	-1.05571	0.363253	0.507848
REACTOME_TOLL_LIKE	-1.40472	0.049913	0.714341	REACTOME_TOLL_LIKE_RECEPTOR_9_TLR9_CASCADE	0.797737	0.789871	1	REACTOME_TOLL_LIKE_RI	-1.05335	0.347826	0.511161
REACTOME_RHO_GTPAS	-0.8255	0.940907	1	REACTOME_RHO_GTPASE_CYCLE	0.612749	1	1	REACTOME_RHO_GTPASE	-1.0476	0.293617	0.518517
REACTOME_PEPTIDE_HI	1.779025	0.007021	0.114038	REACTOME_PEPTIDE_HORMONE_METABOLISM	-0.7954	0.791139	1	REACTOME_PEPTIDE_HOI	1.197426	0.220616	0.518664
REACTOME_SIGNALING	0.538257	0.991691	1	REACTOME_SIGNALING_BY_FGFR1	-0.75265	0.845826	1	REACTOME_SIGNALING_E	-1.04679	0.379272	0.518669
REACTOME_JNK_C_JUN	-1.63817	0.020946	0.487219	REACTOME_JNK_C_JUN_KINASES_PHOSPHORYLATION	0.898144	0.599178	1	REACTOME_JNK_C_JUN_I	-1.04477	0.397533	0.519789
REACTOME_DEADENYLA	-1.2777	0.169881	0.872871	REACTOME_DEADENYLATION_OF_MRNA	0.894432	0.607015	1	REACTOME_DEADENYLAT	-1.04525	0.395474	0.520329
REACTOME_FATTY_ACY	1.211891	0.217904	0.789754	REACTOME_FATTY_ACYL_COA_BIOSYNTHESIS	0.763411	0.742421	1	REACTOME_FATTY_ACYL	1.190089	0.240605	0.521112
WP_ERBB_SIGNALING_F	-0.97145	0.485866	1	WP_ERBB_SIGNALING_PATHWAY	0.651182	0.921645	1	WP_ERBB_SIGNALING_PA	-1.03687	0.388812	0.530007
REACTOME_SEMAPHOR	0.780956	0.825227	1	REACTOME_SEMAPHORIN_INTERACTIONS	0.577385	0.9835	1	REACTOME_SEMAPHORIN	-1.02168	0.410914	0.555757
WP_FOCAL_ADHESION	0.614571	0.999493	1	WP_FOCAL_ADHESION_PI3KAKTMTOR_SIGNALING_PA	-0.83257	0.904	1	WP_FOCAL_ADHESION_P	-1.02016	0.402338	0.559192
BIOCARTA_RHO_PATHW	-0.57187	0.95544	1	BIOCARTA_RHO_PATHWAY	-0.66625	0.895495	1	BIOCARTA_RHO_PATHWA	-1.01566	0.429597	0.562368
REACTOME_AMINO_AC	-1.25182	0.159001	0.883273	REACTOME_AMINO_ACIDS_REGULATE_MTORC1	0.86314	0.675255	1	REACTOME_AMINO_ACID	-1.01169	0.424501	0.564411
REACTOME_ROS_AND_I	1.332718	0.139836	0.683336	REACTOME_ROS_AND_RNS_PRODUCTION_IN_PHAGO	0.937184	0.549936	1	REACTOME_ROS_AND_RI	-1.01077	0.444217	0.564828
REACTOME_CLASS_B_2	-1.03292	0.412817	1	REACTOME_CLASS_B_2_SECRETIN_FAMILY_RECEPTOR	0.662441	0.900157	1	REACTOME_CLASS_B_2_S	-1.01195	0.428649	0.567076
BIOCARTA_IGF1MTOR_F	0.488188	0.985504	1	BIOCARTA_IGF1MTOR_PATHWAY	-0.45347	0.995313	1	BIOCARTA_IGF1MTOR_PA	-1.00815	0.441681	0.568926
REACTOME_AZATHIOPR	0.760074	0.793006	1	REACTOME_AZATHIOPRINE_ADME	0.654167	0.899711	1	REACTOME_AZATHIOPRIN	-0.9974	0.455051	0.587245
REACTOME_SIGNALING	-1.11263	0.205194	1	REACTOME_SIGNALING_BY_GPCR	0.831913	0.855422	1	REACTOME_SIGNALING_E	-0.9963	0.482736	0.588025
WP_ESC_PLURIPOTENC	-0.62228	0.97705	1	WP_ESC_PLURIPOTENCY_PATHWAYS	0.792406	0.795305	1	WP_ESC_PLURIPOTENCY	-0.98876	0.466646	0.598053
REACTOME_SIGNALING	0.734178	0.95628	1	REACTOME_SIGNALING_BY_NUCLEAR_RECEPTORS	0.835573	0.77132	1	REACTOME_SIGNALING_E	-0.97641	0.509331	0.616921
REACTOME_EPH_EPHRI	0.795049	0.751126	1	REACTOME_EPH_EPHRIN_MEDIATED_REPULSION_OF	0.792514	0.739489	1	REACTOME_EPH_EPHRIN	-0.97712	0.487637	0.617024
REACTOME_FACTORS_I	-0.98712	0.474034	1	REACTOME_FACTORS_INVOLVED_IN_MEGAKARYOCYT	0.93572	0.572702	1	REACTOME_FACTORS_INV	-0.97403	0.50766	0.620498
REACTOME_MEMBRANE	0.893472	0.86209	1	REACTOME_MEMBRANE_TRAFFICKING	0.654551	0.999567	1	REACTOME_MEMBRANE_I	-0.97093	0.613187	0.625745
REACTOME_CELLULAR_I	1.103424	0.250687	0.898311	REACTOME_CELLULAR_RESPONSE_TO_CHEMICAL_STR	0.858674	0.742027	1	REACTOME_CELLULAR_RI	-0.96183	0.557443	0.644237
REACTOME_DEUBIQUITI	0.797774	0.951933	1	REACTOME_DEUBIQUITINATION	0.816254	0.839292	1	REACTOME_DEUBIQUITIN	-0.94873	0.612352	0.668376
REACTOME_DOWNREGU	-0.8264	0.688312	1	REACTOME_DOWNREGULATION_OF_ERBB2_SIGNALIN	0.659736	0.884238	1	REACTOME_DOWNREGUI	-0.94371	0.529382	0.677723
REACTOME_G_ALPHA_S	-1.17327	0.225289	0.894268	REACTOME_G_ALPHA_S_SIGNALLING_EVENTS	-0.62753	0.985388	1	REACTOME_G_ALPHA_S	-0.93671	0.567228	0.689504
REACTOME_IRS_MEDIA	-0.78002	0.76485	1	REACTOME_IRS_MEDIATED_SIGNALLING	0.850168	0.66235	1	REACTOME_IRS_MEDIATE	-0.93507	0.54215	0.691401
REACTOME_DEADENYLA	0.663959	0.96418	1	REACTOME_DEADENYLATION_DEPENDENT_MRNA_DE	0.836115	0.730554	1	REACTOME_DEADENYLAT	1.100959	0.322884	0.694713
REACTOME_ADRENALIN	-1.05837	0.382358	1	REACTOME_ADRENALINE_NORADRENALINE_INHIBITS	-0.75381	0.809711	1	REACTOME_ADRENALINE	-0.93085	0.555613	0.695179
REACTOME_VESICLE_MI	0.98409	0.512284	1	REACTOME_VESICLE_MEDIATED_TRANSPORT	0.725017	0.993954	1	REACTOME_VESICLE_MEI	-0.9312	0.790888	0.698107
REACTOME_SYNTHESIS	0.566111	0.988633	1	REACTOME_SYNTHESIS_OF_PIP2_AT_THE_PLASMA_M	0.604748	0.965262	1	REACTOME_SYNTHESIS_C	-0.92511	0.574978	0.698745
REACTOME_TRANSCRIP	-1.31769	0.074579	0.825776	REACTOME_TRANSCRIPTIONAL_REGULATION_BY_RUN	0.822318	0.787643	1	REACTOME_TRANSCRIPTI	-0.92157	0.639084	0.70469
REACTOME_INSULIN_RE	-0.65425	0.908101	1	REACTOME_INSULIN_RECEPTOR_SIGNALLING_CASCAD	0.721648	0.840877	1	REACTOME_INSULIN_REC	-0.91897	0.571967	0.708505
REACTOME_SIGNALING	-0.76204	0.787351	1	REACTOME_SIGNALING_BY_TYPE_1_INSULIN_LIKE_GR	0.845631	0.66456	1	REACTOME_SIGNALING_E	-0.91667	0.58292	0.709885
REACTOME_APOPTOSIS	0.691634	0.96478	1	REACTOME_APOPTOSIS	0.897236	0.633785	1	REACTOME_APOPTOSIS	-0.91408	0.642932	0.713686
REACTOME_FLT3_SIGNA	1.217079	0.219726	0.799663	REACTOME_FLT3_SIGNALING	0.700442	0.855327	1	REACTOME_FLT3_SIGNAL	-0.90843	0.583333	0.722156
REACTOME_GPER1_SIGI	-0.70047	0.867439	1	REACTOME_GPER1_SIGNALING	0.456204	0.993729	1	REACTOME_GPER1_SIGNI	-0.90688	0.589895	0.723571
REACTOME_HOMOLOGO	-1.57334	0.023081	0.618706	REACTOME_HOMOLOGY_DIRECTED_REPAIR	0.794416	0.765602	1	REACTOME_HOMOLOGY_I	-0.90314	0.603709	0.727712
REACTOME_G_ALPHA_I	0.959551	0.40319	1	REACTOME_G_ALPHA_I_SIGNALLING_EVENTS	0.731146	0.931733	1	REACTOME_G_ALPHA_I_S	-0.90325	0.719678	0.729317
REACTOME_HSF1_DEPE	-1.00568	0.449871	1	REACTOME_HSF1_DEPENDENT_TRANSACTIVATION	-0.70338	0.883206	1	REACTOME_HSF1_DEPEN	-0.87351	0.636506	0.774397
REACTOME_SIGNALING	0.869032	0.665614	1	REACTOME_SIGNALING_BY_INSULIN_RECEPTOR	0.815699	0.746641	1	REACTOME_SIGNALING_E	-0.87434	0.682678	0.774613
REACTOME_PLASMA_LIP	0.864766	0.671973	1	REACTOME_PLASMA_LIPOPROTEIN_ASSEMBLY_REMO	0.91241	0.588587	1	REACTOME_PLASMA_LIP	-0.86729	0.678293	0.784994
REACTOME_ASPARAGIN	1.825187	0	0.090367	REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION	0.784616	0.910182	1	REACTOME_ASPARAGINE	1.054548	0.349803	0.790148
REACTOME_OXIDATIVE	-1.34215	0.1223	0.807455	REACTOME_OXIDATIVE_STRESS_INDUCED_SENESCENC	0.749913	0.8022	1	REACTOME_OXIDATIVE_S	-0.86283	0.656399	0.791924
REACTOME_METABOLIS	1.67045	0	0.174818	REACTOME_METABOLISM_OF_LIPIDS	0.885565	0.778218	1	REACTOME_METABOLISM	1.048384	0.349063	0.794816
WP_KIT_RECEPTOR_SIG	0.662188	0.955632	1	WP_KIT_RECEPTOR_SIGNALING_PATHWAY	0.731171	0.862672	1	WP_KIT_RECEPTOR_SIGN	-0.85925	0.71634	0.794985
REACTOME_BIOSYNTHE	1.448956	0.054385	0.488764	REACTOME_BIOSYNTHESIS_OF_THE_N_GLYCAN_PRECI	-0.85651	0.719751	1	REACTOME_BIOSYNTHESI	1.041261	0.397223	0.795801
REACTOME_ANTIGEN_A	-0.92419	0.559495	1	REACTOME_ANTIGEN_ACTIVATES_B_CELL_RECEPTOR	0.749067	0.784307	1	REACTOME_ANTIGEN_AC	-0.85497	0.660247	0.797607
REACTOME_MITOCHON	0.835358	0.790754	1	REACTOME_MITOCHONDRIAL_TRANSLATION	-0.64565	0.991092	1	REACTOME_MITOCHOND	-0.84837	0.809595	0.808223
REACTOME_ESR_MEDIA	-0.67007	0.974098	1	REACTOME_ESR_MEDIATED_SIGNALING	0.909546	0.613593	1	REACTOME_ESR_MEDIAT	-0.8446	0.789397	0.813339
REACTOME_PROTEIN_LO	1.947594	2.37E-04	0.037819	REACTOME_PROTEIN_LOCALIZATION	-0.67912	0.977609	1	REACTOME_PROTEIN_LOI	1.017344	0.42644	0.819944
REACTOME_RND2_GTP	0.962967	0.492257	1	REACTOME_RND2_GTPASE_CYCLE	-0.8379	0.732382	1	REACTOME_RND2_GTPAS	-0.83658	0.731771	0.822237
BIOCARTA_CERAMIDE_F	0.816464	0.700258	1	BIOCARTA_CERAMIDE_PATHWAY	0.724536	0.827392	1	BIOCARTA_CERAMIDE_PA	-0.83338	0.701849	0.826033
REACTOME_DOWNSTRE	-0.64599	0.910297	1	REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATE	0.835529	0.678056	1	REACTOME_DOWNSTREA	-0.82818	0.696764	0.833478
REACTOME_PEROXISOM	1.918114	0.001362	0.047512	REACTOME_PEROXISOMAL_PROTEIN_IMPORT	0.622917	0.963703	1	REACTOME_PEROXISOMA	1.009653	0.443082	0.835504
REACTOME_ACTIVATION	-0.58064	0.97785	1	REACTOME_ACTIVATION_OF_NMDA_RECEPTORS_ANE	-0.66304	0.943287	1	REACTOME_ACTIVATION	-0.81739	0.760826	0.844306
REACTOME_RAC1_GTPA	-1.07163	0.31495	1	REACTOME_RAC1_GTPASE_CYCLE	0.899183	0.662084	1	REACTOME_RAC1_GTPAS	-0.81924	0.900223	0.845122
WP_EXERCISEINDUCED	-0.99247	0.461354	1	WP_EXERCISEINDUCED_CIRCADIAN_REGULATION	0.710951	0.862481	1	WP_EXERCISEINDUCED_C	-0.79486	0.785115	0.868816
WP_ALZHEIMERS_DISEA	-0.86644	0.679635	1	WP_ALZHEIMERS_DISEASE	-0.78718	0.853846	1	WP_ALZHEIMERS_DISEAS	-0.79687	0.83946	0.869791
WP_IL1_SIGNALING_PA	0.590219	0.96772	1	WP_IL1_SIGNALING_PATHWAY	0.928748	0.56356	1	WP_IL1_SIGNALING_PATH	0.983262	0.486524	0.872189
REACTOME_EPIGENETIC	-1.18395	0.239603	0.881324	REACTOME_EPIGENETIC_REGULATION_OF_GENE_EXPI	0.836055	0.687314	1	REACTOME_EPIGENETIC	0.984991	0.486141	0.873727
BIOCARTA_INTEGRIN_P	0.453646	0.999335	0.997659	BIOCARTA_INTEGRIN_PATHWAY	-0.68948	0.923845	1	BIOCARTA_INTEGRIN_PAT	-0.77945	0.807801	0.885846
REACTOME_SENESCENC	-0.85404	0.662283	1	REACTOME_SENESCENCE_ASSOCIATED_SECRETORY_PI	0.755204	0.796285	1	REACTOME_SENESCENCE	-0.77754	0.78916	0.886542
WP_SIGNAL_TRANSDUC	0.847515	0.654997	1	WP_SIGNAL_TRANSDUCTION_OF_S1P_RECEPTOR	-0.74859	0.80602	1	WP_SIGNAL_TRANSDUCT	-0.7631	0.783957	0.900188
REACTOME_PI_METABC	0.753828	0.892157	1	REACTOME_PI_METABOLISM	-0.80315	0.83666	1	REACTOME_PI_METABOL	-0.76411	0.900968	0.900933
REACTOME_GLUCCAGON	0.694586	0.871253	1	REACTOME_GLUCCAGON_TYPE_LIGAND_RECEPTORS	0.52288	0.972702	1	REACTOME_GLUCCAGON	-0.73987	0.817387	0.910515
WP_GPCRS_OTHER	-1.88948	0.002629	0.292559	WP_GPCRS_OTHER	-0.83896	0.683311	1	WP_GPCRS_OTHER	-0.74151	0.815938	0.910657
BIOCARTA_ERK_PATHW	0.887486	0.611882	1	BIOCARTA_ERK_PATHWAY							

REACTOME_COPII_MED	1.704452	0.005495	0.157944	REACTOME_COPII_MEDIATED_VESICLE_TRANSPORT	0.83454	0.734082	1	REACTOME_COPII_MEDIA	0.894392	0.638881	0.967864
WP_ONECARBON_MET#	1.075653	0.336114	0.947915	WP_ONECARBON_METABOLISM_AND_RELATED_PATH	0.914469	0.5825	1	WP_ONECARBON_METAE	0.869749	0.662529	0.969058
REACTOME_ER_TO_GOL	1.645782	0.001007	0.189551	REACTOME_ER_TO_GOLGI_ANTEROGRADE_TRANSPOR	0.691849	0.966799	1	REACTOME_ER_TO_GOLC	0.889005	0.693548	0.969243
REACTOME_TRANSPORT	1.049065	0.285003	0.973169	REACTOME_TRANSPORT_OF_SMALL_MOLECULES	0.831931	0.878675	1	REACTOME_TRANSPORT_	0.847413	0.869318	0.969659
REACTOME_AQUAPORIN	-0.704	0.871324	1	REACTOME_AQUAPORIN_MEDIATED_TRANSPORT	-0.54249	0.983514	1	REACTOME_AQUAPORIN_	-0.62276	0.948848	0.971118
REACTOME_SYNTHESIS_	1.018962	0.422458	1	REACTOME_SYNTHESIS_OF_PA	-0.65223	0.918659	1	REACTOME_SYNTHESIS_C	-0.62695	0.9453	0.971269
WP_GLUTATHIONE_ANT	-0.60892	0.955405	1	WP_GLUTATHIONE_AND_ONECARBON_METABOLISM	0.802779	0.742339	1	WP_GLUTATHIONE_AND_	-0.61613	0.95887	0.971939
REACTOME_CELLULAR_	-1.49942	0.027968	0.635944	REACTOME_CELLULAR_SENESCENCE	0.860634	0.688413	1	REACTOME_CELLULAR_SE	0.83357	0.735852	0.972397
REACTOME_RESOLUTION	-1.00339	0.447523	1	REACTOME_RESOLUTION_OF_SISTER_CHROMATID_CC	0.818873	0.777716	1	REACTOME_RESOLUTION	0.676691	0.951768	0.974272
REACTOME_ION_TRANS	0.906301	0.594697	1	REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPASES	-0.69066	0.924623	1	REACTOME_ION_TRANSP	0.869884	0.661445	0.974468
REACTOME_PINK1_PRK	-0.73636	0.813889	1	REACTOME_PINK1_PRKN_MEDIATED_MITOPHAGY	0.677344	0.880814	1	REACTOME_PINK1_PRKN	0.872016	0.632958	0.975158
REACTOME_INTERFERON	-0.81505	0.753668	1	REACTOME_INTERFERON_SIGNALING	0.862555	0.668269	1	REACTOME_INTERFERON	0.900713	0.620411	0.976305
WP_SELENIUM_METABO	0.750757	0.832454	1	WP_SELENIUM_METABOLISM_SELENOPROTEINS	0.893085	0.613935	1	WP_SELENIUM_METABOI	0.638211	0.943004	0.977245
WP_IL9_SIGNALING_PA	0.988441	0.465012	1	WP_IL9_SIGNALING_PATHWAY	0.787568	0.749183	1	WP_IL9_SIGNALING_PAT	0.687282	0.869451	0.977718
REACTOME_STIMULI_SE	1.409929	0.060496	0.580665	REACTOME_STIMULI_SENSING_CHANNELS	0.937469	0.551958	1	REACTOME_STIMULI_SEN	0.823269	0.742993	0.977719
REACTOME_CYTOSOLIC	0.907406	0.576857	1	REACTOME_CYTOSOLIC_SENSORS_OF_PATHOGEN_AS	0.716382	0.836901	1	REACTOME_CYTOSOLIC_S	0.907058	0.58888	0.978799
REACTOME_SIGNALING	1.215813	0.227293	0.785162	REACTOME_SIGNALING_BY_ROBO_RECEPTORS	0.861533	0.645449	1	REACTOME_SIGNALING_E	0.694485	0.854187	0.979498
REACTOME_ANTIVIRAL	-0.58489	0.96	1	REACTOME_ANTIVIRAL_MECHANISM_BY_IFN_STIMUL	0.812853	0.718562	1	REACTOME_ANTIVIRAL_N	0.698727	0.863307	0.983957
REACTOME_COPI_MEDI	1.469403	0.023969	0.480327	REACTOME_COPI_MEDIATED_ANTEROGRADE_TRANSF	-0.81356	0.863077	1	REACTOME_COPI_MEDIA	0.811659	0.802108	0.984898
REACTOME_SYNTHESIS	0.582894	0.967884	1	REACTOME_SYNTHESIS_OF_ACTIVE_UBIQUITIN_ROLES	0.557625	0.970114	1	REACTOME_SYNTHESIS_C	0.808881	0.738462	0.985054
REACTOME_GOLGI_TO_	1.1919	0.156766	0.806713	REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT	0.72053	0.932429	1	REACTOME_GOLGI_TO_E	0.801376	0.839722	0.988925
WP_TRYPTOPHAN_MET	1.458146	0.066595	0.474887	WP_TRYPTOPHAN_METABOLISM	-0.46552	0.994694	1	WP_TRYPTOPHAN_METAI	0.597962	0.957227	0.989448
REACTOME_DOWNREGU	0.717505	0.822957	1	REACTOME_DOWNREGULATION_OF_SMAD2_3_SMAD	0.894068	0.602968	1	REACTOME_DOWNREGUI	-0.5415	0.973286	0.990385
BIOCARTA_PTEN_PATHW	0.622268	0.92369	1	BIOCARTA_PTEN_PATHWAY	0.587093	0.939997	1	BIOCARTA_PTEN_PATHW	-0.54946	0.968774	0.990907
REACTOME_ENDOSOM#	-1.30297	0.134104	0.824212	REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUI	0.647166	0.919247	1	REACTOME_ENDOSOMAL	-0.50405	0.993648	0.993963
REACTOME_REGULATIO	-1.0683	0.36259	1	REACTOME_REGULATION_OF_PTEN_GENE_TRANSCRIF	-0.75114	0.847062	1	REACTOME_REGULATION	0.711686	0.879405	0.996873
WP_GPCRS_NONODOR#	-1.86001	3.49E-04	0.215451	WP_GPCRS_NONODORANT	0.843061	0.726362	1	WP_GPCRS_NONODORA#	0.706964	0.921464	0.997616
REACTOME_SYNTHESIS	1.326578	0.144666	0.680284	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SA	0.869389	0.637364	1	REACTOME_SYNTHESIS_C	0.741838	0.808047	1
BIOCARTA_HER2_PATHW	1.292741	0.166415	0.740504	BIOCARTA_HER2_PATHWAY	0.715297	0.834839	1	BIOCARTA_HER2_PATHW	0.759411	0.788547	1
REACTOME_GLYCEROPH	1.294218	0.0873	0.74712	REACTOME_GLYCEROPHOSPHOLIPID_BIOSYNTHESIS	0.837987	0.755058	1	REACTOME_GLYCEROPHC	0.726448	0.922798	1
REACTOME_MITOTIC_PI	-0.78471	0.889772	1	REACTOME_MITOTIC_PROMETAPHASE	0.909981	0.636092	1	REACTOME_MITOTIC_PR	0.716807	0.948887	1
REACTOME_RHOBTB1_C	-0.9683	0.496678	1	REACTOME_RHOBTB1_GTPASE_CYCLE	-0.80111	0.751704	1	REACTOME_RHOBTB1_G1	0.774298	0.772559	1
WP_ONECARBON_MET#	-0.87882	0.632428	1	WP_ONECARBON_METABOLISM	0.893307	0.604425	1	WP_ONECARBON_METAE	0.775845	0.777939	1

# GSEA cluster

\* NbClust results. Method=ward.D2, distance=euclidean

		NES		
cluster	ID	SYP MNK1	SYP MNK2	SYP DKO
1	REACTOME_CELLULAR_RESPONSE_TO_HEAT_STRESS	-0.7214	-1.57444	1.05994
1	REACTOME_DETOXIFICATION_OF_REACTIVE_OXYGEN_SPECIES	1.807249	-0.90013	0.750724
1	REACTOME_GENE_SILENCING_BY_RNA	-0.78141	-1.70913	1.365919
1	REACTOME_GLUCOSE_METABOLISM	0.742212	-2.03181	0.721595
1	REACTOME_GLYCOLYSIS	0.679522	-1.95653	0.956136
1	REACTOME_MITOTIC_PROPHASE	0.72832	-1.84208	1.204012
1	REACTOME_MRNA_SPLICING	-1.55241	-1.835	1.350378
1	REACTOME_MRNA_SPLICING_MINOR_PATHWAY	-0.88051	-2.03613	0.700826
1	REACTOME_NUCLEAR_ENVELOPE_BREAKDOWN	-0.51275	-2.18728	1.407661
1	REACTOME_NUCLEAR_PORE_COMPLEX_NPC_DISASSEMBLY	-0.69559	-2.16179	1.636719
1	REACTOME_PEPTIDE_HORMONE_METABOLISM	1.779025	-0.7954	1.197426
1	REACTOME_POST_TRANSLATIONAL_MODIFICATION_SYNTHESIS_C	1.770477	-0.57346	1.217399
1	REACTOME_POSTMITOTIC_NUCLEAR_PORE_COMPLEX_NPC_REFC	-0.59096	-1.99266	1.048955
1	REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRI	-1.28226	-1.91038	1.692861
1	REACTOME_PROTEIN_LOCALIZATION	1.947594	-0.67912	1.017344
1	REACTOME_REGULATION_OF_HSF1_MEDIATED_HEAT_SHOCK_RE	-0.62035	-1.82768	1.201697
1	REACTOME_SNRNP_ASSEMBLY	0.991794	-1.92618	1.352834
1	REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS	1.688962	-1.03272	1.636504
1	REACTOME_SUMOYLATION_OF_CHROMATIN_ORGANIZATION_PR	-0.94157	-1.72061	1.847096
1	REACTOME_SUMOYLATION_OF_DNA_REPLICATION_PROTEINS	-1.18072	-2.01883	1.379512
1	REACTOME_SUMOYLATION_OF_RNA_BINDING_PROTEINS	-0.99988	-2.0389	1.71632
1	REACTOME_SUMOYLATION_OF_SUMOYLATION_PROTEINS	-1.20708	-2.03173	1.487596
1	REACTOME_SUMOYLATION_OF_UBIQUITINYLATION_PROTEINS	-1.24275	-1.92209	1.414128
1	REACTOME_TRANSCRIPTIONAL_REGULATION_BY_SMALL_RNAS	-0.55007	-2.15233	1.430609
1	REACTOME_TRANSPORT_OF_MATURE_MRNAS_DERIVED_FROM_	0.777301	-2.21124	1.833126
1	REACTOME_TRANSPORT_OF_MATURE_TRANSCRIPT_TO_CYTOPLA	-0.88811	-2.3427	1.651372
1	REACTOME_TRANSPORT_OF_THE_SLBP_DEPENDANT_MATURE_N	-0.78723	-2.2161	1.46113
1	WP_GPCRS_NONODORANT	-1.86001	0.843061	0.706964
1	WP_SPHINGOLIPID_METABOLISM_INTEGRATED_PATHWAY	1.617602	-1.09135	1.682079
1	WP_SPHINGOLIPID_METABOLISM_OVERVIEW	1.61796	-1.0911	1.684823
2	REACTOME_CHAPERONIN_MEDIATED_PROTEIN_FOLDING	0.782386	-1.5436	-1.82633
2	REACTOME_COMPLEX_I_BIOGENESIS	-1.26704	-2.02219	-2.03005
2	REACTOME_FATTY_ACID_METABOLISM	1.658859	-1.00017	-1.14545
2	REACTOME_GLUTATHIONE_CONJUGATION	1.255178	-1.74353	-1.55866
2	REACTOME_NEUREXINS_AND_NEUROLIGINS	0.519758	-1.79752	-2.25592
2	REACTOME_POTASSIUM_CHANNELS	-1.03822	-1.62591	-1.19951
2	REACTOME_RAB_GERANYLGERANYLATION	-0.91277	-2.03501	-1.48063
2	REACTOME_RAB_REGULATION_OF_TRAFFICKING	-0.72139	-1.65534	-1.44862
2	REACTOME_REGULATION_OF_INSULIN_SECRETION	-0.65621	-1.66055	-1.65025
2	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT	-0.93888	-1.89568	-1.84939
2	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHES	-0.84537	-1.73265	-1.79349
2	REACTOME_RHOBTB2_GTPASE_CYCLE	0.557364	-1.70872	-1.2933
2	REACTOME_SIGNAL_AMPLIFICATION	1.161491	-1.53827	-1.81031
2	REACTOME_TBC_RABGAPS	0.971685	-1.64493	-1.45702
2	REACTOME_THE_CITRIC_ACID_TCA_CYCLE_AND_RESPIRATORY_EI	0.921426	-1.58813	-1.94134
2	REACTOME_TRAFFICKING_OF_AMPA_RECEPTORS	1.165314	-1.67256	-1.48981
2	REACTOME_TRAFFICKING_OF_GLUR2_CONTAINING_AMPA_RECEI	1.685841	-1.63804	-1.62217

2	REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	-0.90878	-1.70201	-1.31662
2	WP_ELECTRON_TRANSPORT_CHAIN	0.834097	-1.94647	-2.06865
2	WP_G_PROTEIN_SIGNALING_PATHWAYS	0.998573	-1.56746	-2.13382
2	WP_METAPATHWAY_BIOTRANSFORMATION	1.873613	-1.34878	-1.0075
2	WP_OXIDATIVE_PHOSPHORYLATION	-1.04895	-1.79167	-1.73451
2	WP_TCA_CYCLE	0.983286	-1.99699	-2.23446
3	REACTOME_ACTIVATION_OF_THE_MRNA_UPON_BINDING_OF_TH	2.220735	1.536282	2.117987
3	REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION	1.825187	0.784616	1.054548
3	REACTOME_CARGO_CONCENTRATION_IN_THE_ER	1.74242	1.022906	1.435002
3	REACTOME_CITRIC_ACID_CYCLE_TCA_CYCLE	1.825698	1.359805	-1.23579
3	REACTOME_COMPLEMENT_CASCADE	1.159981	1.949624	1.264958
3	REACTOME_COPII_MEDIATED_VESICLE_TRANSPORT	1.704452	0.83454	0.894392
3	REACTOME_ER_TO_GOLGI_ANTEROGRADE_TRANSPORT	1.645782	0.691849	0.889005
3	REACTOME_EUKARYOTIC_TRANSLATION_INITIATION	2.592438	1.661947	2.485513
3	REACTOME_FORMATION_OF_A_POOL_OF_FREE_40S_SUBUNITS	2.717268	1.624374	2.660923
3	REACTOME_MAJOR_PATHWAY_OF_RRNA_PROCESSING_IN_THE_	1.760818	1.1176	2.142849
3	REACTOME_METABOLISM_OF_LIPIDS	1.67045	0.885565	1.048384
3	REACTOME_NONSENSE_MEDIATED_DECAY_NMD	2.432419	1.195268	2.327559
3	REACTOME_NONSENSE_MEDIATED_DECAY_NMD_INDEPENDENT_	2.607835	1.464736	2.493042
3	REACTOME_PEROXISOMAL_LIPID_METABOLISM	1.867626	1.026402	1.274199
3	REACTOME_PEROXISOMAL_PROTEIN_IMPORT	1.918114	0.622917	1.009653
3	REACTOME_SPHINGOLIPID_METABOLISM	1.789229	0.823081	1.579735
3	REACTOME_TRANSLATION	2.198588	1.134119	1.811309
3	REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQUENT_MC	1.721794	0.855966	0.923158
3	WP_CHOLESTEROL_METABOLISM_WITH_BLOCH_AND_KANDUTSC	1.705891	0.980172	1.652451
3	WP_CYTOPLASMIC_RIBOSOMAL_PROTEINS	2.706107	1.413896	2.519593
3	WP_OXIDATIVE_STRESS_RESPONSE	1.663716	0.988468	1.128535
3	WP_PPAR_SIGNALING_PATHWAY	1.687301	1.143962	0.986777

**GSEA cellular component ribosomes**

\* GSEA mouse MSigDB canonical pathways: m5.go.cc.v2022.1.Mm.symbols

GOCC mouse MitoGO canonical pathways: <https://go.drugbank.com/pathways>

cellular component		MNK1KO CX		MNK2 CX		MNKDKO CX		MNK1KO SYP		MNK2 SYP		MNKDKO SYP		
NAME	SIZE	NES	FDR q-val	NES	FDR q-val	NES	FDR q-val	NES	FDR q-val	NES	FDR q-val	NES	FDR q-val	
GOCC_RIBOSOME	193	1.52142	0.304023	1.130573	0.72783	1.634043	0.425109	2.155775	4.12E-04	0.911822		1	1.823913	0.012035
GOCC_RIBOSOMAL_SUBUNIT	171	1.528584	0.304863	1.193163	0.633838	1.732	0.520912	2.283716	3.43E-05	0.881306		1	1.889939	0.005655
GOCC_SMALL_RIBOSOMAL_SUBUNIT	71	1.417562	0.351503	0.930775	0.944072	1.531242	0.418086	2.228482	5.83E-05	0.679602		1	1.4866	0.119646
GOCC_LARGE_RIBOSOMAL_SUBUNIT	104	1.409506	0.329721	1.231165	0.60338	1.584168	0.426088	1.976255	0.006237	1.081417	0.812605	1.862165	0.007765	
GOCC_CYTOSOLIC_RIBOSOME	87	1.864964	0.047406	1.297749	0.584419	1.718933	0.382586	2.657334	0	1.218762	0.579024	2.446244	0	
GOCC_CYTOSOLIC_SMALL_RIBOSOMAL	38	1.657538	0.188184	0.850063	0.996257	1.617309	0.39772	2.376504	0	0.89848		1	1.895957	0.005527
GOCC_CYTOSOLIC_LARGE_RIBOSOMAL	48	1.732056	0.135769	1.558418	0.320795	1.489458	0.412936	2.366335	0	1.397891	0.309473	2.422273	0	