

eTable 1: Demographic and clinical profiles of patients by disease group in a multicenter cohort

	MOGAD(n=67)	MS (n=49)	AD (n=36)	p-value ^a
Age, median (range), years	38 (11-74)	35 (21-67)	73(49-83)	<0,0001
female/male (% female)	42/25 (62,7%)	33/16 (67,3%)	13/23 (36,1 %)	0,0089
DMT	14 (20,8%), Rituximab	7 (14,3%), Rituximab	-	-
Relapse within 1 year (%)	36 (65,5%), n =55	33 (67,3%)	-	-
Number of total attacks, Median (range)	2 (1-11)	-	-	-
EDSS, median (range)	2 (0-5,5), n=34	1,5(0-5,5) n=16	-	-
Disease duration median (range), years	5.5 (0.4 – 48.3)	-	-	-

Abbreviations: MOGAD, Myelin Oligodendrocyte Glycoprotein Antibody–Associated Disease; MS, multiple sclerosis; AD, Alzheimer’s Disease; DMT, Disease-Modifying Therapy; EDSS, expanded disability status scale.

^a Statistical significance of differences in age between cohorts was assessed using an ordinary one-way ANOVA test. Statistical significance of differences in the distribution of men and women was assessed by Chi-square test.

eTable 2: Differential protein expression (linear model analysis) in NULISA CSF: MS vs MOGAD

logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
2.558013424	11.40449665	10.79185995	5.32E-17	1.71E-14	28.30301413	PARK7	Significant
-3.347069498	12.99536213	-8.858249476	2.47E-13	3.98E-11	20.01916896	CCL19	Significant
-2.925797702	17.69726124	-8.451334251	1.49E-12	1.60E-10	18.25636603	IL17B	Significant
-3.028417136	15.39181246	-7.919707367	1.56E-11	9.57E-10	15.95574403	SCG2	Significant
-3.615003151	6.19369211	-7.896215151	1.73E-11	9.57E-10	15.8542859	CD40LG	Significant
-3.190885542	9.830200219	-7.889116495	1.78E-11	9.57E-10	15.82363313	CCL26	Significant
-1.859940872	11.48759747	-7.742718431	3.40E-11	1.56E-09	15.19202725	CX3CL1	Significant
-2.908841637	9.728907787	-7.617820019	5.88E-11	2.37E-09	14.65414089	TNFRSF13B	Significant
-2.308589754	14.7595135	-7.51911391	9.07E-11	3.25E-09	14.22979187	CRH	Significant
7.665410198	2.190798534	7.298248811	2.39E-10	7.68E-09	13.28306916	HBA1	Significant
-2.0932796	9.837341419	-7.132175824	4.92E-10	1.44E-08	12.57422041	TIMP3	Significant
-0.960639877	15.83341594	-6.85732325	1.62E-09	4.35E-08	11.40799664	VEGFA	Significant
2.175630847	9.43939832	6.759732832	2.47E-09	6.12E-08	10.99631112	YWHAZ	Significant
1.808951919	9.885513638	6.575673845	5.45E-09	1.25E-07	10.2237765	IL18	Significant
-1.573716822	11.73144868	-6.55931998	5.85E-09	1.26E-07	10.15540109	NPY	Significant
-1.141887597	7.951597691	-6.252417648	2.16E-08	4.34E-07	8.881206994	FURIN	Significant
-1.152441991	15.12774482	-6.211074122	2.57E-08	4.87E-07	8.71095888	HGF	Significant
-2.385129108	10.59546032	-6.023362464	5.66E-08	1.01E-06	7.942625446	CD27	Significant
-1.922109458	21.03230923	-5.907648512	9.16E-08	1.55E-06	7.473030342	GFAP	Significant
1.488416079	5.037332387	5.826860765	1.28E-07	2.06E-06	7.147129563	IL36B	Significant
2.146269427	6.70693335	5.808893847	1.38E-07	2.12E-06	7.074877087	ARSA	Significant
-0.838503021	11.25488265	-5.779298641	1.56E-07	2.28E-06	6.956046235	IL13RA2	Significant
0.719134439	8.890932695	5.711002634	2.07E-07	2.78E-06	6.682713828	KITLG	Significant
-3.203249414	9.392345301	-5.710578131	2.07E-07	2.78E-06	6.681018839	CXCL9	Significant
-5.049321114	4.491451347	-5.693353004	2.22E-07	2.86E-06	6.612282816	CCL25	Significant
-0.857967827	14.54276989	-5.554513448	3.92E-07	4.85E-06	6.06130044	CXCL16	Significant
-1.147624179	16.90650463	-5.513000262	4.64E-07	5.53E-06	5.897643642	CALB2	Significant
-1.311935647	11.69272522	-5.446860194	6.06E-07	6.83E-06	5.637975389	TNFSF15	Significant
2.345394307	9.497134697	5.443523243	6.15E-07	6.83E-06	5.624909998	CSF3	Significant
-4.09535974	7.099891381	-5.39102315	7.60E-07	8.15E-06	5.419811219	CXCL11	Significant
-1.241270582	12.02235766	-5.30606204	1.07E-06	1.11E-05	5.089764507	GZMA	Significant
-3.305958614	6.916074268	-5.268803344	1.24E-06	1.25E-05	4.945772775	CCL22	Significant
-3.326981096	7.168320301	-5.22340343	1.49E-06	1.45E-05	4.770948348	LAG3	Significant
-2.08008264	7.485771832	-5.172421807	1.82E-06	1.72E-05	4.575471281	ICOSLG	Significant
-3.821645988	10.04835303	-5.155459466	1.94E-06	1.79E-05	4.51063367	CXCL13	Significant
-1.29029928	10.37552189	-5.043002679	3.03E-06	2.71E-05	4.083370698	SMOC1	Significant
-0.743167338	16.25724968	-5.035550265	3.12E-06	2.71E-05	4.05521884	TNFSF12	Significant
-2.452919852	8.016886	-4.926126847	4.77E-06	4.04E-05	3.644265782	IFNG	Significant
-0.980095889	10.33212816	-4.89752866	5.33E-06	4.33E-05	3.537616839	IFNB1	Significant
-1.067154392	8.718304636	-4.895058498	5.38E-06	4.33E-05	3.528420017	CCL21	Significant
-0.974913654	15.31525116	-4.831434172	6.87E-06	5.36E-05	3.292365787	IL9	Significant
-1.165123638	15.42784724	-4.827130592	6.99E-06	5.36E-05	3.276457178	SNAP25	Significant
1.882483787	8.435528033	4.764469133	8.88E-06	6.65E-05	3.045672548	PRDX6	Significant
-2.623353269	6.895689255	-4.639640078	1.43E-05	0.000104354	2.590778648	TNFRSF17	Significant
-0.341246882	5.1158305	-4.6158333	1.56E-05	0.000111599	2.504777433	BASP1	Significant
-0.732754685	13.4248029	-4.591716877	1.71E-05	0.000119518	2.417909154	TNFRSF11B	Significant
-1.833340277	9.470353686	-4.507123468	2.34E-05	0.0001604	2.115234206	IL12B	Significant
-0.39702371	14.98969888	-4.457305494	2.82E-05	0.000186025	1.938494943	IGFBP7	Significant
-1.35772325	5.601191129	-4.455861695	2.83E-05	0.000186025	1.933389726	POSTN	Significant
-1.134030091	7.522227431	-4.394275707	3.55E-05	0.000228686	1.716525144	CXCL5	Significant
1.038603631	11.53890247	4.375427267	3.80E-05	0.00024023	1.650508812	ENO2	Significant
-3.703180412	4.912218016	-4.361685767	4.00E-05	0.000247751	1.602485531	IL5RA	Significant
-1.140290592	13.79972261	-4.304629282	4.92E-05	0.000299202	1.40405339	CST3	Significant
-0.96185035	15.89459826	-4.270531516	5.57E-05	0.000332252	1.286220284	NPTX2	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
-0.950411934	24.03962938	-4.256642547	5.86E-05	0.000342985	1.238386912	TAFA5	Significant
-0.52416336	8.222396153	-4.23583237	6.31E-05	0.000363086	1.166895348	LTA	Significant
2.384229664	4.319099589	4.208943947	6.95E-05	0.000392885	1.074841397	SELE	Significant
-0.954657985	9.901535342	-4.18255561	7.64E-05	0.000424361	0.984851961	SDC1	Significant
-0.833429703	9.781596706	-4.159380721	8.30E-05	0.000453133	0.906111394	CD276	Significant
-1.123856015	9.825643448	-4.140481274	8.88E-05	0.000474222	0.842099884	FGF19	Significant
-0.671014732	10.90501358	-4.137225041	8.98E-05	0.000474222	0.831089649	WNT7A	Significant
-0.466287521	13.44280266	-4.130288963	9.21E-05	0.000478207	0.807654974	THBS2	Significant
-0.922985628	12.06816172	-4.112769433	9.80E-05	0.000500775	0.748572711	IL20	Significant
-0.912077086	11.43072009	-4.093163005	0.000105013	0.000528345	0.682641012	IL17RB	Significant
-0.751093703	2.740031716	-4.075318456	0.000111836	0.000554018	0.62280803	IFNL2; IFNL3	Significant
-0.901209595	12.24414218	-4.063912327	0.000116419	0.000567982	0.584650437	AGRP	Significant
-1.068766184	16.02448345	-4.058050017	0.000118844	0.00057116	0.56506549	WNT16	Significant
-1.226803025	16.11186149	-4.025403878	0.000133262	0.000631036	0.456332382	pTau-217	Significant
-1.135348591	17.36794628	-4.017266046	0.00013711	0.000639847	0.429316101	pTau-181	Significant
-0.860422795	16.41946175	-3.99917877	0.000146048	0.00067182	0.369395909	SPP1	Significant
-0.59624259	11.54895682	-3.971998311	0.000160539	0.000728077	0.279681765	IL6ST	Significant
-2.530909887	10.18810032	-3.908058546	0.000200266	0.000895632	0.070218484	GDF15	Significant
0.681916173	12.31043111	3.902882677	0.000203864	0.000899237	0.053360698	VEGFC	Significant
-1.159215688	18.05524346	-3.850324422	0.000244092	0.001062129	-0.116978997	pTau-231	Significant
-2.503653821	6.212110278	-3.758773675	0.000332914	0.001429312	-0.409974378	IL17C	Significant
-0.678663247	13.32208088	-3.711914701	0.000389572	0.001631026	-0.558077492	TNFSF8	Significant
-1.834573467	5.364198926	-3.711564839	0.000390028	0.001631026	-0.559178464	CCL27	Significant
-0.698569867	12.5511646	-3.68200026	0.000430427	0.001776891	-0.651955081	TNFRSF8	Significant
-1.027244968	14.09715409	-3.676780983	0.000437961	0.001785105	-0.668280279	VSNL1	Significant
0.789917203	12.78147631	3.668218853	0.000450592	0.001813633	-0.695026611	PTN	Significant
-1.013133887	10.2282997	-3.642735898	0.000490269	0.001948972	-0.774372836	IL12p70	Significant
-0.93383207	13.26931969	-3.583968367	0.000594811	0.002335722	-0.955875895	FLT1	Significant
-0.95332659	25.73928646	-3.573077764	0.000616376	0.002391243	-0.989282442	CNTN2	Significant
-0.688402331	13.43316197	-3.559238884	0.000644851	0.002471929	-1.031628616	ACHE	Significant
-1.385002515	10.84359171	-3.465817772	0.000872288	0.003304433	-1.314410113	IL10	Significant
1.938856448	6.278118564	3.456865321	0.000897681	0.003361083	-1.341223913	MPO	Significant
-1.199537515	19.68232957	-3.423095019	0.000999892	0.003700751	-1.441916562	A β 1-40	Significant
-1.043975907	20.62719603	-3.390769865	0.001107942	0.004054062	-1.537623435	A β 1-38	Significant
-0.992067345	9.956925926	-3.329856517	0.001342103	0.004855697	-1.716153605	IL17RA	Significant
-1.885725986	6.740799479	-3.320079433	0.001383771	0.004950824	-1.744585736	THPO	Significant
-0.766717535	11.22321494	-3.262524981	0.001654773	0.005855349	-1.910689746	FASLG	Significant
1.904462202	8.564704703	3.239286564	0.001777708	0.006221978	-1.977138191	VEGFD	Significant
-0.587970974	8.099125929	-3.212603281	0.00192941	0.006680322	-2.052994222	TNFSF11	Significant
-1.484779095	18.80190662	-3.181541355	0.00212125	0.00726641	-2.140697777	A β 1-42	Significant
2.326445357	4.66926777	3.175139933	0.002162941	0.007331232	-2.158691555	S100A12	Significant
1.937968062	7.580594473	3.120284337	0.002552926	0.00856294	-2.31174626	LCN2	Significant
-0.596666527	10.60826972	-3.07835703	0.002894198	0.009607544	-2.427342089	ANGPT2	Significant
0.827238276	10.19489179	3.052877447	0.003121859	0.010257536	-2.496997726	C1QA	Significant
-0.355201319	9.136844132	-3.014887426	0.003492375	0.011359039	-2.600014742	TNFSF9	Significant
-1.398559652	8.343901911	-2.998101527	0.003668751	0.011813378	-2.6452107	IL6R	Significant
-0.342945945	13.92241864	-2.961862056	0.004078046	0.013001295	-2.742107278	BMP7	Significant
-0.725168789	13.23051234	-2.919877926	0.004604878	0.014410758	-2.853196497	TREM2	Significant
-0.92175695	10.91833231	-2.918148749	0.004627869	0.014410758	-2.857744836	MICA	Significant
-1.236374461	13.70827674	-2.916162584	0.004654406	0.014410758	-2.862966493	CXCL10	Significant
-0.407397367	17.83424558	-2.89514438	0.004943974	0.015161521	-2.918049812	NPTXR	Significant
0.49534937	8.875088602	2.887415035	0.005054576	0.015330734	-2.938226366	AREG	Significant
-1.771009741	7.463807459	-2.884671866	0.005094374	0.015330734	-2.945376712	TNFSF10	Significant
0.476793981	14.92299498	2.874666602	0.005241992	0.015628903	-2.971410287	PGF	Significant
-0.413848039	10.76670056	-2.809711597	0.006300199	0.018442939	-3.138650613	APOE	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
-0.522084057	16.29408738	-2.809701192	0.006300383	0.018442939	-3.138677156	CD83	Significant
-1.401637861	20.96830985	-2.796963915	0.006529615	0.018941767	-3.17110941	NEFL	Significant
-0.608466721	11.06370413	-2.780395689	0.006839239	0.019662812	-3.213117146	SQSTM1	Significant
-1.3671402	17.35787441	-2.776031674	0.006923001	0.019727491	-3.22414807	MAPT	Significant
-0.555294498	10.44618355	-2.767836601	0.007082841	0.02000592	-3.244824634	IL3RA	Significant
-0.680797491	16.13573003	-2.762400259	0.00719073	0.020134045	-3.258513297	TNFRSF21	Significant
-2.003876209	11.17423208	-2.751130833	0.007419188	0.020594643	-3.286819651	CHIT1	Significant
-0.431983748	16.1240309	-2.718992244	0.008107651	0.022313365	-3.367024566	CXADR	Significant
-0.426033925	11.19826818	-2.714560441	0.008207034	0.022395466	-3.378023908	TGFB3	Significant
1.139168705	6.814773724	2.709268745	0.008327156	0.022532304	-3.391138114	TARDBP	Significant
-0.431647013	15.76794801	-2.697051223	0.008610643	0.023083667	-3.421335923	TNFSF18	Significant
-0.644857737	9.48769641	-2.692698108	0.008713757	0.023083667	-3.432068275	KLRK1	Significant
-0.936727636	9.708851034	-2.691347153	0.008745986	0.023083667	-3.435396071	IFNW1	Significant
-0.707075994	9.711074705	-2.673960359	0.009170574	0.024007518	-3.478101819	IL12RB1	Significant
-0.580601909	8.704870522	-2.667269023	0.009338917	0.024251057	-3.494476257	CCL11	Significant
-0.985306249	10.93739552	-2.65801711	0.009576311	0.024668577	-3.517060792	CSF2	Significant
-0.505454202	10.86952387	-2.63024774	0.01032216	0.026202292	-3.58445676	IL22	Significant
-0.812317483	11.53467891	-2.62980581	0.010334444	0.026202292	-3.585524567	SFRP1	Significant
-0.335103794	10.01162666	-2.621860449	0.010557582	0.026558918	-3.604696954	pTDP43-409	Significant
-0.884417592	10.70941788	-2.614698416	0.010762456	0.026864425	-3.621937752	MIF	Significant
1.386803573	6.461019092	2.578066519	0.011867777	0.02939557	-3.709503938	IKBKG	Significant
0.741478529	10.30680249	2.558912941	0.012485691	0.03069002	-3.754877356	FGF2	Significant
2.063305395	5.283114649	2.539049553	0.013157053	0.032095236	-3.801631924	PTX3	Significant
-0.656079758	8.477502236	-2.522287663	0.013748726	0.033286389	-3.840847379	PDGFRB	Significant
2.072948032	5.117014124	2.453215433	0.0164477	0.039523577	-4.000123897	MMP8	Significant
-1.318335028	7.568839489	-2.437657971	0.017117549	0.040828524	-4.035479403	NCR1	Significant
0.164421807	9.127597452	2.410337846	0.018353119	0.043453708	-4.097101287	PDLIM5	Significant
-0.362626492	7.780768484	-2.399154817	0.018881431	0.044119799	-4.122153589	FGF23	Significant
-1.008805177	0.668743905	-2.398589696	0.018908485	0.044119799	-4.123416927	BDNF	Significant
-0.466979006	17.87064226	-2.375409827	0.020048393	0.046443039	-4.175015534	NPTX1	Significant
3.246898309	10.06873733	2.348053788	0.021472043	0.048862939	-4.235355165	NAMPT	Significant
-0.82536371	7.84852341	-2.346733768	0.021542955	0.048862939	-4.238251503	MMP1	Significant
-0.179364415	9.639711308	-2.346635313	0.021548253	0.048862939	-4.238467473	IL17F	Significant

eTable 3: Mann-Whitney-U-Test results on NPX DEPs values from linear model analysis: MS vs MOGAD

	Significant	P value	Mean rank of MS	Mean rank of MOGAD	Mean rank diff.	Mann-Whitney U	q value
AREG	No	0.034616	18.05	26.14	-8.097	144	0.013985
ARSA	Yes	0.00003	14.59	29.76	-15.17	68	0.000034
C1QA	Yes	0.019214	17.64	26.57	-8.935	135	0.008437
CSF3	Yes	0.000073	14.91	29.43	-14.52	75	0.000067
ENO2	Yes	0.000326	15.5	28.81	-13.31	88	0.000235
FGF2	Yes	0.006876	17	27.24	-10.24	121	0.003655
HBA1	Yes	0.000003	15.16	29.17	-14.01	80.5	0.000005
IKBK	Yes	0.020568	17.68	26.52	-8.842	136	0.008656
IL18	Yes	<0.000001	12.95	31.48	-18.52	32	<0.000001
IL36B	Yes	0.000011	14.27	30.1	-15.82	61	0.000014
KITLG	Yes	0.000105	15.05	29.29	-14.24	78	0.000088
LCN2	Yes	0.009244	17.18	27.05	-9.866	125	0.004668
MMP8	Yes	0.015813	17.55	26.67	-9.121	133	0.00726
MPO	Yes	0.00091	15.95	28.33	-12.38	98	0.000613
NAMPT	Yes	0.00001	14.25	30.12	-15.87	60.5	0.000014
PARK7	Yes	<0.000001	11.86	32.62	-20.76	8	<0.000001
PDLIM5	Yes	0.000167	15.23	29.1	-13.87	82	0.00013
PGF	Yes	0.005867	16.91	27.33	-10.42	119	0.003292
PRDX6	Yes	0.002317	16.41	27.86	-11.45	108	0.001376
PTN	Yes	0.010088	17.23	27	-9.773	126	0.004852
PTX3	No	0.060942	18.5	25.67	-7.167	154	0.022797
S100A12	No	0.040905	18.18	26	-7.818	147	0.01589
SELE	Yes	0.000002	13.77	30.62	-16.85	50	0.000005
TARDBP	No	0.53508	23.18	20.76	2.42	205	0.193011
TIMP3	Yes	0.000009	29.82	13.81	16.01	59	0.000014
VEGFC	Yes	0.001469	16.18	28.1	-11.91	103	0.000927
VEGFD	Yes	0.000034	14.64	29.71	-15.08	69	0.000034
YWHAZ	Yes	<0.000001	13	31.43	-18.43	33	<0.000001

eTable 4: Differential protein expression (linear model analysis) in NULISA CSF: AD vs MOGAD

logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
3.851984167	16.11186149	9.882489084	2.74E-15	8.84E-13	24.4363932	pTau-217	Significant
3.446070021	18.05524346	8.949615948	1.65E-13	2.66E-11	20.41769939	pTau-231	Significant
3.149860108	17.36794628	8.71444759	4.67E-13	4.72E-11	19.39994376	pTau-181	Significant
-2.626124621	11.40449665	-8.662755171	5.87E-13	4.72E-11	19.17613395	PARK7	Significant
2.73326998	9.837341419	7.281562117	2.57E-10	1.65E-08	13.2188274	TIMP3	Significant
-1.142985535	8.890932695	-7.09725215	5.73E-10	3.08E-08	12.43304354	KITLG	Significant
1.201288503	15.83341594	6.704842174	3.13E-09	1.38E-07	10.77371159	VEGFA	Significant
2.951782272	17.69726124	6.666724852	3.69E-09	1.38E-07	10.61368956	IL17B	Significant
3.254928371	15.39181246	6.655521688	3.87E-09	1.38E-07	10.56670036	SCG2	Significant
1.990009418	11.48759747	6.477339896	8.30E-09	2.67E-07	9.822140247	CX3CL1	Significant
2.53200578	14.7595135	6.448100839	9.40E-09	2.75E-07	9.700485171	CRH	Significant
0.91087031	13.44280266	6.308562614	1.70E-08	4.33E-07	9.122100046	THBS2	Significant
3.045556585	12.99536213	6.302271047	1.75E-08	4.33E-07	9.096110038	CCL19	Significant
-2.504030986	9.43939832	-6.083188156	4.40E-08	1.01E-06	8.196212555	YWHAZ	Significant
1.666198872	11.73144868	5.430080823	6.49E-07	1.39E-05	5.583033229	NPY	Significant
1.087572401	10.90501358	5.243031837	1.37E-06	2.76E-05	4.857474666	WNT7A	Significant
0.99759593	11.54895682	5.196225102	1.65E-06	3.13E-05	4.677730455	IL6ST	Significant
1.333572675	15.31525116	5.167420802	1.85E-06	3.32E-05	4.567493646	IL9	Significant
-2.42893599	6.70693335	-5.140111007	2.07E-06	3.37E-05	4.46324462	ARSA	Significant
2.657269986	9.830200219	5.136887475	2.09E-06	3.37E-05	4.450956875	CCL26	Significant
1.256532789	13.43316197	5.079674202	2.62E-06	4.02E-05	4.23348392	ACHE	Significant
0.928643318	11.25488265	5.004568873	3.52E-06	5.15E-05	3.949810361	IL13RA2	Significant
2.062600846	21.03230923	4.956772098	4.24E-06	5.93E-05	3.770377215	GFAP	Significant
1.642228969	25.73928646	4.812621403	7.39E-06	9.44E-05	3.234572188	CNTN2	Significant
1.279615995	16.90650463	4.806347982	7.57E-06	9.44E-05	3.211441243	CALB2	Significant
0.94913943	14.54276989	4.80454497	7.62E-06	9.44E-05	3.204796243	CXCL16	Significant
-1.56494539	5.037332387	-4.790233704	8.05E-06	9.60E-05	3.152098864	IL36B	Significant
1.88751482	11.53467891	4.777882637	8.44E-06	9.70E-05	3.106686454	SFRP1	Significant
1.627260383	9.825643448	4.68753398	1.19E-05	0.000132127	2.77641045	FGF19	Significant
1.812690518	5.601191129	4.651481927	1.36E-05	0.00014637	2.645578123	POSTN	Significant
-1.62299475	9.885513638	-4.612937629	1.58E-05	0.000159709	2.50631878	IL18	Significant
1.647671066	14.09715409	4.611173689	1.59E-05	0.000159709	2.499961125	VSNL1	Significant
-1.252873491	12.78147631	-4.549127551	2.00E-05	0.000195373	2.277201159	PTN	Significant
0.92285057	13.4248029	4.521630918	2.22E-05	0.000210087	2.179028176	TNFRSF11B	Significant
0.844066838	16.25724968	4.471820743	2.67E-05	0.000245132	2.002056472	TNFSF12	Significant
1.04282933	7.951597691	4.464626053	2.74E-05	0.000245132	1.976587755	FURIN	Significant
1.343919521	15.42784724	4.353489737	4.12E-05	0.000358769	1.586229272	SNAP25	Significant
0.489165364	14.98969888	4.293968788	5.12E-05	0.000424218	1.379576093	IGFBP7	Significant
1.225891226	24.03962938	4.292936504	5.14E-05	0.000424218	1.376007187	TAFAs	Significant
1.21525093	11.43072009	4.26423062	5.70E-05	0.000458866	1.276971236	IL17RB	Significant
-2.147088242	8.435528033	-4.248938003	6.02E-05	0.000473063	1.224376628	PRDX6	Significant
2.465012846	6.19369211	4.209947764	6.93E-05	0.000531285	1.090805463	CD40LG	Significant
0.63484335	11.86840721	4.101252492	0.000102053	0.000749244	0.722493305	SLIT2	Significant
3.493021538	6.212110278	4.100344895	0.000102381	0.000749244	0.719443444	IL17C	Significant
1.246450828	15.64484376	4.077857808	0.00011084	0.000766652	0.644015391	SOD1	Significant
1.334049354	10.37552189	4.076785562	0.000111259	0.000766652	0.640425364	SMOC1	Significant
1.629573485	11.57993107	4.075149645	0.000111903	0.000766652	0.634949246	MDH1	Significant
3.346815749	10.18810032	4.040763291	0.000126281	0.000847134	0.520168621	GDF15	Significant
0.946031256	15.12774482	3.986578777	0.000152602	0.001002813	0.340574588	HGF	Significant
1.133070891	12.06816172	3.947696301	0.000174655	0.001124776	0.212671196	IL20	Significant
-2.112111263	6.814773724	-3.927607325	0.000187215	0.001182024	0.146910796	TARDBP	Significant
1.539277326	20.62719603	3.909056412	0.000199579	0.001235853	0.086381582	Aβ1-38	Significant
0.991306088	9.781596706	3.868251483	0.000229585	0.001394837	-0.046090584	CD276	Significant
1.1096082	11.21819778	3.859951765	0.000236196	0.001408426	-0.072922058	GOT1	Significant
1.179137888	11.69272522	3.827767207	0.000263593	0.001543219	-0.176603506	TNFSF15	Significant
0.90523165	16.29408738	3.809137603	0.000280814	0.00161468	-0.236351119	CD83	Significant
1.252747338	7.522227431	3.795538834	0.000294057	0.001661167	-0.279839762	CXCL5	Significant
1.069753321	8.405278487	3.764301417	0.000326774	0.00181416	-0.379336431	pSNCA-129	Significant
-6.573182818	10.06873733	-3.716740953	0.000383337	0.002092112	-0.529744558	NAMPT	Significant
1.02591704	11.06370413	3.665466433	0.000454726	0.002440361	-0.690418832	SQSTM1	Significant
2.29662289	5.364198926	3.63294531	0.000506379	0.002673019	-0.79152167	CCL27	Significant
-2.599754127	6.278118564	-3.62423465	0.000521134	0.002706536	-0.818494567	MPO	Significant
0.678763927	10.76670056	3.603187183	0.000558491	0.002854509	-0.883480972	APOE	Significant
-1.97334611	9.497134697	-3.581085634	0.000600449	0.003021008	-0.951434482	CSF3	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
0.730284268	15.0275495	3.557698153	0.000648097	0.003210574	-1.023019011	AGRN	Significant
0.678141383	12.09464128	3.525096692	0.000720531	0.003515316	-1.122248038	TIMP2	Significant
1.091758343	14.98554361	3.486443221	0.000816348	0.003923342	-1.239048686	CCL2	Significant
2.043847487	8.343901911	3.425792495	0.00099134	0.004694288	-1.42044059	IL6R	Significant
0.859226318	17.87064226	3.417401382	0.001018172	0.004706235	-1.445353948	NPTX1	Significant
1.264258436	13.09947888	3.415884779	0.001023095	0.004706235	-1.449852007	FABP3	Significant
1.516447115	19.68232957	3.383604672	0.00113334	0.005139935	-1.545243767	A α é \leq 40	Significant
-1.656326758	9.268740613	-3.355626015	0.001237862	0.005535994	-1.627384928	RUVBL2	Significant
0.885899521	17.78732899	3.33440773	0.001323111	0.005836189	-1.689342355	S100B	Significant
0.923653241	8.718304636	3.312735913	0.001415864	0.006160923	-1.752322806	CCL21	Significant
0.517995619	10.64084006	3.306367152	0.001444263	0.006184952	-1.770772926	EPO	Significant
1.698787493	7.485771832	3.302931957	0.001459802	0.006184952	-1.780713595	ICOSLG	Significant
0.696260263	13.30639514	3.245793791	0.001742447	0.007286597	-1.944922183	PTH1	Significant
-4.294278063	2.190798534	-3.196838191	0.002024649	0.008337935	-2.083894054	HBA1	Significant
0.549772829	9.015878241	3.188681799	0.002075633	0.008337935	-2.106892037	FLT3LG	Significant
1.732129231	12.01799328	3.187459484	0.002083376	0.008337935	-2.110334657	IL23	Significant
2.594736674	7.168320301	3.185251686	0.002097431	0.008337935	-2.116550315	LAG3	Significant
-1.213518786	8.844458251	-3.119338516	0.002560192	0.010053439	-2.300597509	REST	Significant
1.009496181	10.79821244	3.105014274	0.002672623	0.01036849	-2.340203044	IL7	Significant
-1.317200958	14.84007496	-3.095070113	0.002753363	0.010554557	-2.367615134	HLA-DRA	Significant
0.745192095	15.44441584	3.04805914	0.00316674	0.011996356	-2.496281459	SIRPA	Significant
-0.636895097	14.92299498	-3.002422816	0.003622573	0.013563586	-2.619714074	PGF	Significant
2.344313469	7.463807459	2.985646452	0.00380492	0.014082577	-2.664721595	TNFSF10	Significant
-1.534599606	9.925502878	-2.941654838	0.004324234	0.015822765	-2.781795854	IL1RN	Significant
-1.011200329	10.19489179	-2.917851459	0.004631832	0.016756844	-2.844568565	C1QA	Significant
1.758118615	9.004942707	2.91073962	0.004727581	0.016756844	-2.863244668	MMP12	Significant
-1.266961251	8.801081262	-2.910147866	0.00473563	0.016756844	-2.864797011	IL24	Significant
0.9143107	16.13573003	2.900745917	0.004865219	0.017028268	-2.889427273	TNFRSF21	Significant
7.140000084	8.220027535	2.884746647	0.005093285	0.017634816	-2.93119409	APOE4	Significant
1.546447976	14.06575548	2.880204513	0.005159806	0.017675079	-2.94301784	SNCB	Significant
0.632882939	15.17109414	2.861748955	0.005438408	0.01843334	-2.990906283	BACE1	Significant
0.584147976	15.76794801	2.853846165	0.005561889	0.018655501	-3.011336805	TNFSF18	Significant
-2.157200615	8.092175651	-2.844958771	0.005703833	0.018809033	-3.034258445	IL33	Significant
0.437551652	11.59686557	2.843682468	0.005724488	0.018809033	-3.037545452	CD46	Significant
1.214189857	10.70941788	2.806713342	0.006353482	0.020664861	-3.132239147	MIF	Significant
0.511982443	14.85714639	2.798785737	0.006496366	0.020719407	-3.152414509	IGF1R	Significant
-0.36723082	7.613796647	-2.798644148	0.006498944	0.020719407	-3.152774425	CD70	Significant
0.791859857	12.24414218	2.791991411	0.006621163	0.020902103	-3.169668888	AGRP	Significant
0.687025393	10.60826972	2.7714518	0.007011917	0.02192075	-3.221622458	ANGPT2	Significant
0.706905128	10.33212816	2.761956142	0.00719961	0.022291101	-3.245535481	IFNB1	Significant
-3.861018488	4.58719756	-2.724741304	0.007980366	0.024377237	-3.338607221	IL1RL1	Significant
-1.253332678	9.598741446	-2.722724702	0.008024805	0.024377237	-3.343621064	IL1B	Significant
0.540345621	11.19826818	2.691994674	0.008730525	0.026273168	-3.419646992	TGFB3	Significant
1.923100364	5.830884886	2.687244119	0.008844535	0.026369819	-3.431336426	CCL15	Significant
0.717297027	16.52130541	2.67750251	0.009082582	0.026831113	-3.455253793	TNFRSF18	Significant
1.661667532	17.35787441	2.638169682	0.010104185	0.029409437	-3.551091549	MAPT	Significant
-1.565166255	9.230818957	-2.636929318	0.010138036	0.029409437	-3.554094669	CCL7	Significant
-0.445524796	8.197417835	-2.625683009	0.010449689	0.030042857	-3.581270201	IL32	Significant
0.470360623	17.83424558	2.613546269	0.010795748	0.030763106	-3.61048891	NPTXR	Significant
0.624604389	12.5511646	2.574104806	0.01199327	0.033875728	-3.704661844	TNFRSF8	Significant
1.774747041	6.051360742	2.559297874	0.012472992	0.034924378	-3.739706131	CCL13	Significant
0.507415295	16.1240309	2.497188591	0.014679548	0.040748401	-3.884847047	CXADR	Significant
0.989820422	7.833271851	2.479221187	0.015380275	0.042328619	-3.926271889	SNCA	Significant
0.784932288	7.857932647	2.447820885	0.016677263	0.045509141	-3.998056525	CXCL3	Significant

eTable 5: Mann-Whitney-U-Test results on NPX DEPs values from linear model analysis AD vs MOGAD

	Significant	P value	Mean rank of AD	Mean rank of MOGAD	Mean rank diff.	Mann-Whitney U	q value
ARSA	Yes	0.000008	21.34	40.43	-19.09	117	0.000015
C1QA	No	0.259267	26.57	31.71	-5.143	300	0.154735
CCL7	No	0.86677	28.2	29	-0.8	357	0.455227
CD70	No	0.90652	28.29	28.86	-0.5714	360	0.457793
CSF3	Yes	0.001458	23.23	37.29	-14.06	183	0.001472
HBA1	Yes	0.000002	22.1	39.17	-17.07	143.5	0.000006
HLA-DRA	No	0.591094	27.57	30.05	-2.476	335	0.323378
IL18	No	0.011974	24.29	35.52	-11.24	220	0.010481
IL1B	Yes	0.000038	21.83	39.62	-17.79	134	0.000062
IL1RL1	No	0.228819	26.49	31.86	-5.371	297	0.143067
IL1RN	No	0.03076	24.86	34.57	-9.714	240	0.023757
IL24	No	0.273864	26.63	31.62	-4.99	302	0.156341
IL32	No	0.22512	26.43	31.95	-5.524	295	0.143067
IL33	No	0.013907	24.37	35.38	-11.01	223	0.011413
IL36B	Yes	0.000003	21.03	40.95	-19.92	106	0.000006
KITLG	Yes	0.000348	22.63	38.29	-15.66	162	0.000416
MPO	Yes	0.000239	22.49	38.52	-16.04	157	0.000313
NAMPT	Yes	<0.000001	20.61	41.64	-21.03	91.5	0.000006
PARK7	Yes	0.000003	21.03	40.95	-19.92	106	0.000006
PGF	No	0.053158	31.77	23.05	8.724	253	0.038776
PRDX6	Yes	0.000002	20.94	41.1	-20.15	103	0.000006
PTN	Yes	0.000045	21.89	39.52	-17.64	136	0.000065
REST	No	0.104599	25.74	33.1	-7.352	271	0.072284
RUVBL2	Yes	0.000573	22.83	37.95	-15.12	169	0.000627
TARDBP	Yes	0.006043	23.91	36.14	-12.23	207	0.005667
YWHAZ	Yes	0.000003	21.03	40.95	-19.92	106	0.000006

eTable 6: Differential protein expression (linear model analysis) in Olink CSF: MS vs MOGAD

logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
-5.35697352	1.125929268	-13.89853676	7.37E-17	2.13E-13	27.14737066	GAPDH	Significant
-4.179206304	-2.399382927	-9.341805918	1.39E-11	2.01E-08	16.11124413	CKMT1A_CKMT1B	Significant
-2.494821442	0.284912195	-9.000899397	3.85E-11	3.70E-08	15.16312217	CPVL	Significant
-1.323178795	3.114607317	-8.270471576	3.55E-10	2.56E-07	13.07840907	CNDP1	Significant
-3.146740193	-8.472853659	-6.673363656	5.49E-08	3.17E-05	8.310589711	SORD	Significant
-1.868366769	-6.94384878	-6.452343906	1.12E-07	5.38E-05	7.635228164	SCLY	Significant
1.338772936	-0.558756098	6.224506061	2.33E-07	9.30E-05	6.937180264	BCAT1	Significant
-0.963009865	-1.743636585	-6.162095183	2.85E-07	9.30E-05	6.745758513	MITD1	Significant
-0.79309799	-1.05842439	-6.156615492	2.90E-07	9.30E-05	6.72894889	FURIN	Significant
1.820044083	0.536853659	6.080264561	3.72E-07	0.000107156	6.494699942	IL1A	Significant
-0.889484069	-3.296941463	-6.00109906	4.80E-07	0.000125796	6.25177799	ENTPD5	Significant
-2.495078544	-0.196946341	-5.945909453	5.73E-07	0.000137813	6.082432261	TIMP3	Significant
-2.1588703292	2.055765854	-5.896585551	6.72E-07	0.000149178	5.931099693	PARK7	Significant
1.910539679	-0.690592683	5.852818203	7.75E-07	0.00015955	5.796838015	C3	Significant
-1.885219777	-2.720480488	-5.743506142	1.10E-06	0.000200705	5.461658809	NUDT16	Significant
-2.131197947	-1.326295122	-5.740351108	1.11E-06	0.000200705	5.451988746	CRIP2	Significant
-1.390495439	-2.023009756	-5.661148039	1.44E-06	0.00024388	5.209331309	ACP5	Significant
2.900946762	-5.2493	5.630898634	1.58E-06	0.000253925	5.116710913	FBP1	Significant
-1.407448488	-2.479997561	-5.478027646	2.59E-06	0.000393571	4.649243118	OXCT1	Significant
-1.967668842	-2.29385122	-5.369102394	3.68E-06	0.000496082	4.316934387	NIT1	Significant
-1.866575815	-0.68645122	-5.340133673	4.04E-06	0.000496082	4.228688329	CD8A	Significant
-1.229178575	2.330131707	-5.334714801	4.11E-06	0.000496082	4.212187751	LGMN	Significant
-1.872088857	-1.721429268	-5.314113839	4.39E-06	0.000496082	4.149477229	PTGR1	Significant
-2.032678066	-1.535214634	-5.312921407	4.41E-06	0.000496082	4.145848373	GLA	Significant
1.049915397	3.461097561	5.308382384	4.47E-06	0.000496082	4.132036027	COL4A1	Significant
-0.997939257	-3.0383	-5.308318371	4.47E-06	0.000496082	4.131841248	ACY1	Significant
-1.831385673	1.026697561	-5.295685395	4.66E-06	0.000496648	4.093407241	DUT	Significant
1.59920341	-3.868321951	5.284848678	4.82E-06	0.000496648	4.060448031	ARG1	Significant
-1.135016727	-3.910492683	-5.15080841	7.40E-06	0.000736388	3.653596549	WARS1	Significant
1.972765006	-5.439404878	4.931341836	1.49E-05	0.001431892	2.991366348	SERPINA12	Significant
-1.110836145	4.953402439	-4.891830685	1.69E-05	0.001570658	2.872751923	DTD1	Significant
-0.940783554	1.265487805	-4.662103814	3.48E-05	0.003069232	2.187514107	NUDT5	Significant
1.457088869	0.469985366	4.659588561	3.51E-05	0.003069232	2.180057229	AHCY	Significant
-2.064013219	1.379802439	-4.630261021	3.85E-05	0.003265897	2.09319042	PRCP	Significant
-0.723961973	6.92094878	-4.547143395	4.99E-05	0.004098844	1.847823807	GOT1	Significant
-1.363493015	-0.949573171	-4.53931266	5.12E-05	0.004098844	1.824772263	CRYZL1	Significant
-1.079790574	-1.411373171	-4.474923075	6.25E-05	0.004873361	1.635671917	PBXIP1	Significant
-0.432241465	7.329558537	-4.436699743	7.04E-05	0.005310402	1.523804458	FBLN2	Significant
-1.560897695	1.347414634	-4.430294757	7.18E-05	0.005310402	1.505088226	F2R	Significant
-1.544792441	-1.45554878	-4.354847984	9.07E-05	0.006538512	1.285272811	GRHPR	Significant
-1.11666234	3.752521951	-4.332460813	9.72E-05	0.006834978	1.220284631	GAD1	Significant
1.032251383	-4.68575122	4.300354135	0.000107263	0.00736539	1.127277632	WFDC12	Significant
1.42556479	-2.073341463	4.263717748	0.000120038	0.007875571	1.021438046	PGD	Significant
-0.819631113	-0.306404878	-4.263402571	0.000120154	0.007875571	1.020528887	HEPH	Significant
-2.209306748	-3.841473171	-4.226101554	0.000134701	0.008632837	0.913097407	GSTT2B	Significant
0.87740466	-0.071780488	4.213235243	0.000140107	0.008784115	0.876118717	SEMA4C	Significant
1.08518325	-1.180180488	4.187120353	0.00015174	0.009311028	0.80118782	ANXA2	Significant
0.949541405	0.9987	4.160257862	0.000164689	0.009840914	0.724289664	AGT	Significant
2.684608084	-2.374704878	4.155287712	0.0001672	0.009840914	0.710081872	IL36G	Significant
1.649908951	-4.534758537	4.147461714	0.00017123	0.009876557	0.687723095	BDNF	Significant
-1.555942335	-4.801385366	-4.103768053	0.000195534	0.011057237	0.563182867	GBP1	Significant
-1.366675426	-5.107802439	-3.936971252	0.000323176	0.017652133	0.092557597	DMP1	Significant
-0.772770436	1.23554878	-3.935709507	0.000324398	0.017652133	0.089027928	MOCS2	Significant
0.91605038	-1.039260976	3.919845359	0.000340151	0.018166591	0.044689363	IDI2	Significant
-2.79388347	-2.192973171	-3.868143876	0.000396814	0.020807508	-0.099280897	CACNB3	Significant
0.52229072	3.807804878	3.849683381	0.000419184	0.021587962	-0.150486697	ADAM22	Significant
2.81338499	-2.984404878	3.818631147	0.000459594	0.023253856	-0.236376766	CA3	Significant
1.698344479	-4.525007317	3.799556335	0.000486261	0.024178909	-0.288984271	APEX1	Significant
-1.159653805	1.878373171	-3.780110365	0.000514985	0.025173177	-0.342493655	NT5C	Significant
-0.919212354	-3.816914634	-3.74929988	0.000563884	0.027011128	-0.427019367	NAAA	Significant
-2.46925646	-2.461307317	-3.744844288	0.000571317	0.027011128	-0.439216667	CD79B	Significant
-2.042126928	3.639385366	-3.731568687	0.000594029	0.027631911	-0.475519315	DPP7	Significant
-0.295354426	6.033302439	-3.725128462	0.000605358	0.027711943	-0.49310887	SOD3	Significant
-1.656129611	-4.687621951	-3.715321405	0.000623012	0.028074472	-0.519866786	FCRL5	Significant
-0.770711676	3.339873171	-3.692620743	0.000665803	0.029541152	-0.581677405	DDAH1	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
-1.866724915	0.995443902	-3.655312356	0.000742355	0.032438658	-0.682873047	CD27	Significant
-1.59022613	2.041	-3.632981933	0.00079216	0.034098347	-0.743206676	FABP5	Significant
1.271806022	-2.995302439	3.620111199	0.000822312	0.034875709	-0.777900254	ENO3	Significant
-1.122772543	-4.183034146	-3.576537324	0.00093281	0.038988744	-0.89490712	SLAMF7	Significant
-1.067772875	-4.274702439	-3.537376404	0.001044183	0.043020356	-0.999462594	CCN1	Significant
2.222914426	-4.00244878	3.517635901	0.00110506	0.04457235	-1.051947517	AHSP	Significant
-1.973760376	-2.491117073	-3.50957456	0.001130886	0.04457235	-1.073337585	ABRAXAS2	Significant
-0.693892633	2.137692683	-3.505411565	0.001144449	0.04457235	-1.084373918	PRELP	Significant
-0.595304192	-0.539997561	-3.499797716	0.001162986	0.04457235	-1.099245925	NT5E	Significant
1.082887012	-2.361734146	3.499197136	0.001164986	0.04457235	-1.100836236	LBR	Significant
-1.264532067	-2.281478049	-3.496329045	0.001174583	0.04457235	-1.108428891	TNFRSF17	Significant

eTable 7: Mann-Whitney-U-Test results on NPX DEPs values from linear model analysis Olink CSF: MS vs MOGAD

	Discovery?	P value	Mean rank of MS	Mean rank of MOGAD	Mean rank diff.	Mann-Whitney U	q value
ADAM22	Yes	0.00016	16.43	30.85	-14.42	54	0.000012
AGT	Yes	0.000958	16.93	29.77	-12.84	68	0.000057
AHCY	Yes	0.000005	15.68	32.46	-16.78	33	<0.000001
AHSP	Yes	0.002585	17.25	29.08	-11.83	77	0.000124
ANXA2	Yes	0.000359	16.64	30.38	-13.74	60	0.000026
APEX1	Yes	0.00135	17.04	29.54	-12.5	71	0.000076
ARG1	Yes	0.000004	15.64	32.54	-16.9	32	<0.000001
BCAT1	Yes	0.000001	15.43	33	-17.57	26	<0.000001
BDNF	Yes	0.000408	16.68	30.31	-13.63	61	0.000027
C3	Yes	0.000011	15.82	32.15	-16.33	37	0.000001
CA3	Yes	0.002093	17.18	29.23	-12.05	75	0.000111
COL4A1	Yes	0.000002	15.5	32.85	-17.35	28	<0.000001
ENO3	Yes	0.022709	18.11	27.23	-9.124	101	0.001043
FBP1	Yes	<0.000001	15.11	33.69	-18.59	17	<0.000001
IDI2	Yes	0.000756	16.86	29.92	-13.07	66	0.000048
IL1A	Yes	<0.000001	15.29	33.31	-18.02	22	<0.000001
IL36G	Yes	<0.000001	15.36	33.15	-17.8	24	<0.000001
LBR	Yes	0.002327	17.21	29.15	-11.94	76	0.000118
PGD	Yes	0.00003	16.04	31.69	-15.66	43	0.000003
SEMA4C	Yes	0.000042	16.11	31.54	-15.43	45	0.000004
SERPINA12	Yes	0.000004	15.61	32.62	-17.01	31	<0.000001
WFDC12	Yes	0.000008	15.75	32.31	-16.56	35	<0.000001

eTable 8 : Differential protein expression (linear model analysis) in Olink Serum: MS vs MOGAD

logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
1.059042651	-0.011901235	4.999215344	3.27E-06	0.008928804	4.275498862	MPRIIP	Significant
0.974566994	1.441420988	4.768550611	8.08E-06	0.008928804	3.460645168	CTSC	Significant
1.297171079	0.824618519	4.640699673	1.32E-05	0.008928804	3.017745074	ENO1	Significant
0.987446952	-1.420896296	4.529384888	2.02E-05	0.008928804	2.637532064	CILP	Significant
1.530262035	-1.152041975	4.465879368	2.56E-05	0.008928804	2.422959328	GPD1	Significant
1.036491009	0.800725926	4.458007244	2.63E-05	0.008928804	2.396482092	TAB2	Significant
1.158024256	-0.025030864	4.439682846	2.82E-05	0.008928804	2.334954111	MME	Significant
0.827780691	0.048193827	4.362808569	3.75E-05	0.008928804	2.078447513	PCSK9	Significant
1.251737045	1.492932099	4.321404235	4.37E-05	0.008928804	1.941391836	SIRT2	Significant
1.154983728	1.33364321	4.310057908	4.56E-05	0.008928804	1.903969766	OGA	Significant
0.593016911	0.52535679	4.298844164	4.75E-05	0.008928804	1.867043012	CEACAM6	Significant
2.490306791	0.964480247	4.295566818	4.81E-05	0.008928804	1.85626167	CASP8	Significant
1.256094547	1.99544321	4.284113673	5.02E-05	0.008928804	1.818623693	IRAK4	Significant
0.64388048	0.32771358	4.273630677	5.21E-05	0.008928804	1.784227098	IL18R1	Significant
0.897501005	0.774197531	4.248088158	5.72E-05	0.008928804	1.700631643	DTNB	Significant
1.215296553	2.558607407	4.238406363	5.93E-05	0.008928804	1.669024881	CST7	Significant
2.02651974	1.397223457	4.22843151	6.15E-05	0.008928804	1.63650752	SNCA	Significant
0.681103756	0.549971605	4.215934889	6.43E-05	0.008928804	1.595835639	FST	Significant
1.465071348	1.09614321	4.203734894	6.72E-05	0.008928804	1.55620055	NAPRT	Significant
2.852359932	-3.44872716	4.203552467	6.73E-05	0.008928804	1.555608421	LTA4H	Significant
0.983554213	0.511514815	4.198070513	6.86E-05	0.008928804	1.537822284	BECN1	Significant
1.602175733	0.638420988	4.192052318	7.01E-05	0.008928804	1.518312818	SH3BP1	Significant
1.018475043	0.423641975	4.180100971	7.32E-05	0.008928804	1.479620908	HHEX	Significant
1.441604071	0.854185185	4.158738432	7.91E-05	0.008928804	1.410631563	RNASEH2A	Significant
1.630396923	1.081545679	4.156166285	7.98E-05	0.008928804	1.40233977	STAT5B	Significant
1.040001841	0.139520988	4.145802122	8.29E-05	0.008928804	1.368961412	DPY30	Significant
1.286159795	1.302018519	4.145228342	8.30E-05	0.008928804	1.367115044	TNIP1	Significant
0.905096144	0.802820988	4.09584667	9.91E-05	0.009753289	1.208811296	HIP1R	Significant
1.093634197	1.459275309	4.094589452	9.96E-05	0.009753289	1.204796626	RILPL2	Significant
1.458946642	0.732281481	4.083384869	0.000103634	0.009753289	1.16905156	PGD	Significant
1.441547639	1.03961358	4.081986542	0.000104152	0.009753289	1.164594951	LBR	Significant
0.822437645	0.266775309	4.068392459	0.000109319	0.009917296	1.121319794	GUK1	Significant
0.935794054	1.146909877	4.048018094	0.000117528	0.010338904	1.056632748	TXN	Significant
0.653072149	0.30587037	4.019534293	0.000130002	0.01051114	0.966547758	TP53I3	Significant
1.131608095	0.160820988	4.014435848	0.000132365	0.01051114	0.95046621	TMED4	Significant
0.469418603	0.478153086	4.006507264	0.000136122	0.01051114	0.925483979	EZR	Significant
1.446906398	1.617753086	4.004006407	0.000137328	0.01051114	0.917610627	MAP2K1	Significant
0.803968769	0.439134568	4.00346685	0.00013759	0.01051114	0.915912378	PDCD5	Significant
1.667020788	1.667981481	3.987809251	0.000145391	0.010606707	0.8666948	PPP2R5A	Significant
1.708165668	0.370908642	3.974949289	0.000152114	0.010606707	0.826364846	PTGES2	Significant
1.29444322	2.581193827	3.974933921	0.000152123	0.010606707	0.826316702	FGD3	Significant
1.164044141	1.297717284	3.972449111	0.000153456	0.010606707	0.818533905	APBB1IP	Significant
0.914113471	1.01384321	3.958014284	0.000161424	0.010897979	0.773384632	GPI	Significant
1.410782667	0.784209877	3.942373164	0.000170505	0.010991599	0.724583597	S100P	Significant
1.117185174	1.00402963	3.939228269	0.000172389	0.010991599	0.714786657	TAX1BP1	Significant
1.016351485	1.34852963	3.933135043	0.000176096	0.010991599	0.695819718	CASP3	Significant
0.623283315	0.179841975	3.928669833	0.000178861	0.010991599	0.681932699	RBFOX3	Significant
1.275994592	0.822724691	3.924088131	0.000181742	0.010991599	0.667694167	CLTA	Significant
1.224417851	1.659577778	3.917440919	0.000186	0.010998969	0.647056111	PRKAR2A	Significant
0.921011194	0.964487654	3.905769123	0.000193709	0.010998969	0.610873735	WASHC3	Significant
1.119769127	2.494337037	3.901810826	0.000196392	0.010998969	0.598619278	DCTN1	Significant
1.2603326	1.340651852	3.896014827	0.000200385	0.010998969	0.580690329	CEP43	Significant
0.929735587	0.892397531	3.885185515	0.000208055	0.010998969	0.547239019	COX6B1	Significant
1.149053341	2.062851852	3.88096469	0.000211119	0.010998969	0.534217798	NFKB1	Significant
0.719455838	0.688580247	3.878752107	0.000212743	0.010998969	0.527395749	HSPA1A	Significant
1.028741158	0.364817284	3.878325985	0.000213057	0.010998969	0.526082186	SMAD2	Significant
1.42233332	1.656355556	3.874411663	0.000215963	0.010998969	0.514020394	TPD52L2	Significant
1.545100503	2.563496296	3.866926565	0.000221626	0.011092765	0.490978013	BCL2L15	Significant
0.765859575	1.145519753	3.854947175	0.000230985	0.011365268	0.454162112	IMPACT	Significant
0.831766683	1.101603704	3.843888143	0.00023996	0.011610077	0.420242528	ARHGAP45	Significant
1.3235674	2.534261728	3.828222516	0.000253245	0.011748453	0.372305735	MYCBP2	Significant
0.644209468	1.294203704	3.827210565	0.000254127	0.011748453	0.36921369	PLA2G4A	Significant
0.625204178	0.128688889	3.826256857	0.000254961	0.011748453	0.366300107	PALM2	Significant
1.152217052	3.171566667	3.810907457	0.000268746	0.012190164	0.319474948	HBEGF	Significant
1.232810872	1.767437037	3.796780793	0.00028206	0.01242575	0.276492195	PAG1	Significant
1.785401165	1.604209877	3.796323782	0.000282501	0.01242575	0.275103465	SDCCAG8	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
1.145307631	0.23732716	3.784864494	0.000293777	0.012728878	0.2403189	MAD1L1	Significant
0.741979485	1.475890123	3.773217887	0.000305677	0.013049712	0.205038893	CHMP1A	Significant
1.365314033	1.403888889	3.766537227	0.000312709	0.01315644	0.184835165	ATP6V1G1	Significant
1.226684503	3.276880247	3.759373608	0.000320421	0.013278489	0.163197977	CERT1	Significant
1.36282329	4.920781481	3.748469305	0.000332508	0.013278489	0.130316321	S100A12	Significant
0.540374692	0.786703704	3.748073716	0.000332955	0.013278489	0.129124659	VPS53	Significant
1.823815165	0.907317284	3.740798287	0.000341271	0.013278489	0.107223704	KIF22	Significant
0.773216288	-0.314339506	3.729060307	0.000355106	0.013278489	0.0719508	GGT1	Significant
1.058598259	1.34495679	3.724445536	0.00036069	0.013278489	0.058104152	PTPN6	Significant
1.34493609	1.415051852	3.721923494	0.000363777	0.013278489	0.050541729	DNAJB14	Significant
0.878995619	1.500620988	3.721856886	0.000363859	0.013278489	0.050342053	BAG4	Significant
1.259634315	1.759806173	3.721461384	0.000364345	0.013278489	0.049156462	PLCB2	Significant
0.78694246	0.468437037	3.718747896	0.0003677	0.013278489	0.041024614	HEXIM1	Significant
0.601810057	1.158865432	3.710354034	0.000378264	0.013278489	0.015895543	GUSB	Significant
0.801169102	0.495119753	3.710064946	0.000378633	0.013278489	0.015030786	DDAH1	Significant
0.88699056	0.809593827	3.709775273	0.000379003	0.013278489	0.014164324	RPA2	Significant
1.238877524	1.61242963	3.709271924	0.000379647	0.013278489	0.012658832	SAMD9L	Significant
1.13004003	1.569098765	3.689914145	0.00040521	0.013979347	-0.045132243	ASRGL1	Significant
1.476228633	0.519340741	3.684341984	0.000412867	0.013979347	-0.061728687	PRDX6	Significant
0.612186636	0.92507037	3.683029012	0.000414691	0.013979347	-0.065636785	NUDT5	Significant
0.655166395	-0.567166667	3.679986813	0.000418947	0.013979347	-0.07468827	NUDC	Significant
1.100263607	1.76447037	3.671738254	0.000430697	0.014208098	-0.099204158	LRRFIP1	Significant
0.965989469	0.22812716	3.663369041	0.000442938	0.014318476	-0.12403955	SDHB	Significant
1.308551193	0.780795062	3.657741367	0.000451355	0.014318476	-0.140717317	GCC1	Significant
1.291182754	0.983607407	3.652375496	0.000459521	0.014318476	-0.156602577	TDP1	Significant
1.008834729	1.44041358	3.650906996	0.000461781	0.014318476	-0.160947127	DENR	Significant
0.83457203	-0.747607407	3.649318486	0.000464236	0.014318476	-0.165645351	F9	Significant
0.660193136	0.548649383	3.645942057	0.000469498	0.014318476	-0.175626833	LETM1	Significant
0.597042545	0.484755556	3.645196541	0.000470667	0.014318476	-0.177829877	NCK2	Significant
0.867530483	-0.238255556	3.638404283	0.000481449	0.014318476	-0.197886878	NFYA	Significant
1.921884348	-0.30308642	3.638368109	0.000481507	0.014318476	-0.197993628	ABHD14B	Significant
0.46077079	0.23552716	3.637211612	0.000483366	0.014318476	-0.201406041	SIL1	Significant
0.779712349	1.44742963	3.633790926	0.000488905	0.014336266	-0.211494829	HSBP1	Significant
1.140606745	2.369622222	3.623803214	0.000505424	0.014383534	-0.24091397	STX8	Significant
0.883163751	0.090079012	3.622566477	0.000507507	0.014383534	-0.244552867	HMOX2	Significant
1.08303343	0.052651852	3.620424354	0.000511132	0.014383534	-0.250853651	LDLRAP1	Significant
1.843610596	1.228683951	3.619431927	0.00051282	0.014383534	-0.253771862	EIF4G1	Significant
0.448719754	0.212896296	3.617985302	0.00051529	0.014383534	-0.258024627	CRELD1	Significant
1.379344249	1.141090123	3.609044942	0.000530808	0.014433568	-0.284280824	PPME1	Significant
1.037469997	1.153620988	3.608682373	0.000531447	0.014433568	-0.285344657	BRAP	Significant
0.903518777	0.401144444	3.604616904	0.000538657	0.014433568	-0.297268225	SSNA1	Significant
0.904617298	-0.207692593	3.604557094	0.000538764	0.014433568	-0.29744357	HBZ	Significant
1.123884887	2.212024691	3.6027815	0.000541942	0.014433568	-0.302648155	USP25	Significant
1.060270335	0.249955556	3.598727861	0.000549266	0.014495638	-0.314523327	NPM1	Significant
1.133235809	1.600619753	3.592645366	0.000560432	0.014657071	-0.332324352	FADD	Significant
1.279296244	0.915081481	3.586702197	0.00057155	0.01470701	-0.349697073	BAIAP2	Significant
0.781399358	0.391416049	3.58442043	0.000575874	0.01470701	-0.356361598	CEBPA	Significant
1.228788707	0.759907407	3.582290533	0.000579938	0.01470701	-0.362579834	SH3GLB2	Significant
1.239116453	1.131233333	3.580899752	0.000582606	0.01470701	-0.36663881	HSPB1	Significant
1.235768985	1.071323457	3.564511511	0.000614939	0.015327653	-0.414383494	DDX58	Significant
0.986303829	1.337175309	3.563124137	0.000617752	0.015327653	-0.418418264	NAGK	Significant
0.89629758	1.555691358	3.555978214	0.00063244	0.01552648	-0.439182387	DFFA	Significant
1.574016724	0.081825926	3.554048537	0.000636463	0.01552648	-0.444784423	MINK1	Significant
0.53196533	0.545211111	3.551311945	0.000642209	0.015536105	-0.452725297	PPP3R1	Significant
0.323487589	-0.038124691	3.546145388	0.000653192	0.015671207	-0.467705412	NOMO1	Significant
0.649809241	0.487065432	3.541034032	0.000664232	0.015805464	-0.482510174	TALDO1	Significant
1.254187814	1.035948148	3.537605366	0.000671737	0.015854087	-0.492432574	AHCY	Significant
0.472970905	0.56965679	3.534720824	0.000678113	0.015860248	-0.500774988	PDIA4	Significant
0.934129263	1.169864198	3.532560709	0.000682925	0.015860248	-0.507019094	IL1RN	Significant
1.223970939	2.726598765	3.519972141	0.000711618	0.016395445	-0.543353717	CEBPB	Significant
0.893726684	0.988316049	3.514263638	0.000725002	0.016572279	-0.559799646	LHPP	Significant
0.352532618	0.303411111	3.503237255	0.00075153	0.016982808	-0.59151188	IL1R2	Significant
1.413541878	1.267249383	3.498457496	0.000763313	0.016982808	-0.60523636	FEN1	Significant
2.057242825	1.079471605	3.497369068	0.000766021	0.016982808	-0.608359761	GBP2	Significant
1.384192619	0.16672963	3.497232305	0.000766362	0.016982808	-0.608752173	SCRN1	Significant
-1.105715331	-0.353919753	-3.489546939	0.000785747	0.017139946	-0.63078589	CCL21	Significant
2.018980248	1.517030864	3.482943451	0.000802773	0.017139946	-0.649689976	IQGAP2	Significant
1.004343034	1.672066667	3.480527759	0.000809088	0.017139946	-0.656599022	METAP2	Significant
0.985300002	1.060796296	3.478414446	0.000814651	0.017139946	-0.662640404	SCRIB	Significant
0.828195624	0.969209877	3.476092193	0.000820806	0.017139946	-0.669276034	DXO	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
1.000358575	1.732314815	3.475594195	0.000822132	0.017139946	-0.670698601	APRT	Significant
1.271076662	1.072307407	3.47440352	0.000825309	0.017139946	-0.674099251	SNRPB2	Significant
0.932733899	1.436246914	3.468899754	0.000840148	0.017139946	-0.689807441	PCBP2	Significant
0.742751649	0.553581481	3.466020134	0.000848013	0.017139946	-0.698018925	PLIN3	Significant
1.077135632	1.491281481	3.465146393	0.000850413	0.017139946	-0.700509498	VTA1	Significant
0.719692429	1.65794321	3.462932423	0.000856522	0.017139946	-0.706818311	ANXA5	Significant
1.722666856	-2.441707407	3.462836415	0.000856788	0.017139946	-0.707091824	ITGAL	Significant
1.20262453	2.184725926	3.461279327	0.000861111	0.017139946	-0.711526985	EIF4G3	Significant
1.311332075	1.685895062	3.460636567	0.000862902	0.017139946	-0.713357378	DNAJC9	Significant
0.851271306	1.243861728	3.458980081	0.000867533	0.017139946	-0.718073436	GMPR2	Significant
1.085225234	1.611341975	3.45739269	0.000871992	0.017139946	-0.722591242	LMNB1	Significant
0.970845015	0.624140741	3.45674278	0.000873824	0.017139946	-0.724440489	TXLNA	Significant
0.962370102	1.708283951	3.453549579	0.000882879	0.017201324	-0.733522724	HCLS1	Significant
1.159822242	0.97657284	3.446631916	0.000902799	0.017272961	-0.753177322	NUB1	Significant
1.069110959	0.354279012	3.446519219	0.000903127	0.017272961	-0.753497281	ANXA3	Significant
1.061718852	1.690541975	3.44582119	0.000905161	0.017272961	-0.755478897	PPP1R9B	Significant
0.966549844	1.503048148	3.444045338	0.000910356	0.017272961	-0.760519	DNAJC6	Significant
1.381251298	2.036277778	3.438987238	0.000925306	0.017396963	-0.774864196	CALCOCO2	Significant
0.376873759	0.448607407	3.437790579	0.000928877	0.017396963	-0.778255776	IGF2R	Significant
1.435397869	-3.531980247	3.429622226	0.0009536	0.017745513	-0.801383612	HAGH	Significant
1.573446422	2.015702469	3.421101229	0.000980051	0.018056316	-0.825467151	KAZN	Significant
1.19299071	2.070553086	3.420246708	0.000982741	0.018056316	-0.827879934	IPCEF1	Significant
1.33563709	0.51157284	3.409381077	0.001017565	0.018430915	-0.858521163	FMNL1	Significant
0.651903501	0.318611111	3.407265457	0.001024479	0.018430915	-0.864478939	NT5C1A	Significant
0.914171648	0.85677037	3.405912322	0.001028925	0.018430915	-0.86828807	TARBP2	Significant
1.725004845	1.323240741	3.405375722	0.001030693	0.018430915	-0.869798314	ZBTB16	Significant
1.274993193	0.858483951	3.399414731	0.001050526	0.018430915	-0.886563611	YARS1	Significant
0.961932015	0.391761728	3.399227894	0.001051154	0.018430915	-0.887088742	BRD3	Significant
1.336954865	1.390893827	3.399008579	0.00105189	0.018430915	-0.887705129	AK1	Significant
1.086057422	1.535993827	3.398405112	0.001053921	0.018430915	-0.889401032	DAPK2	Significant
1.004713484	-0.614750617	3.39416657	0.001068285	0.018529787	-0.901306231	DNPEP	Significant
1.002803834	2.338709877	3.391829248	0.001076285	0.018529787	-0.907866626	NADK	Significant
1.004142076	0.201198765	3.39110345	0.00107878	0.018529787	-0.909903122	GET3	Significant
0.899408287	1.386161728	3.389270757	0.001085106	0.018529787	-0.915043993	VASP	Significant
1.511879566	1.257249383	3.383032261	0.001106903	0.01875705	-0.932528229	DARS1	Significant
0.695040271	1.408620988	3.380015758	0.001117589	0.01875705	-0.940973892	STAMBP	Significant
2.049704576	1.6741	3.379956833	0.001117799	0.01875705	-0.941138815	FKBP1B	Significant
0.400011508	0.633630864	3.375688597	0.001133088	0.018904342	-0.95307947	FURIN	Significant
1.029908409	2.27301358	3.366505584	0.001166654	0.019353119	-0.97873181	CASP10	Significant
0.730001499	0.339818519	3.363835568	0.001176587	0.019407006	-0.986180706	S100A11	Significant
1.142923852	1.786635802	3.360059785	0.001190771	0.019440732	-0.996707057	ARHGAP25	Significant
1.145311197	2.192350617	3.359727791	0.001192026	0.019440732	-0.997632192	IKBKKG	Significant
1.069832858	1.44841358	3.346123524	0.001244526	0.020183576	-1.035483681	MSRA	Significant
1.184047982	0.629054321	3.342390809	0.001259307	0.020232721	-1.045849421	CDK1	Significant
1.280120835	2.187923457	3.340887066	0.001265308	0.020232721	-1.050022888	ATOX1	Significant
0.770638988	1.56178642	3.340098627	0.001268465	0.020232721	-1.052210553	MYH9	Significant
1.907420946	2.92337284	3.333825439	0.001293851	0.020524857	-1.069602991	ARF6	Significant
0.684472516	1.271222222	3.33102482	0.001305337	0.020594535	-1.077359879	SEC31A	Significant
0.87142454	0.129382716	3.323621537	0.001336165	0.020873035	-1.097841456	PDE5A	Significant
0.508590624	-0.034792593	3.319178501	0.001354993	0.020873035	-1.110117074	APCS	Significant
-1.16286104	-0.659006173	-3.318746669	0.001356836	0.020873035	-1.111309526	FCER2	Significant
1.021238537	1.647925926	3.318715082	0.001356971	0.020873035	-1.111396747	ACTN4	Significant
0.613115934	1.330487654	3.31825439	0.00135894	0.020873035	-1.112668756	CNPY4	Significant
0.886726536	-2.279623457	3.315142074	0.001372314	0.020928618	-1.121258678	APOL1	Significant
0.805454854	0.468288889	3.31406342	0.001376978	0.020928618	-1.124234335	ZHX2	Significant
1.359271988	0.760348148	3.311904029	0.001386359	0.020961458	-1.130189231	CLIP2	Significant
0.475099644	0.71282716	3.306852074	0.001408542	0.021138981	-1.144109568	PPCDC	Significant
0.950155909	0.821582716	3.305921579	0.001412664	0.021138981	-1.146671756	CAMSAP1	Significant
0.521109713	0.218198765	3.30015381	0.001438467	0.021414723	-1.162541743	PRSS8	Significant
1.052180179	1.759262963	3.297912913	0.001448612	0.021455712	-1.168701973	GSTP1	Significant
0.414632829	-0.666549383	3.295464988	0.00145977	0.021511226	-1.175427751	HEPH	Significant
1.265175518	1.945193827	3.290895618	0.001480814	0.021551571	-1.187972295	NSFL1C	Significant
0.920136804	0.773614815	3.290129316	0.001484371	0.021551571	-1.190074794	DNPH1	Significant
1.397704985	1.044695062	3.290041428	0.001484779	0.021551571	-1.190315908	TNFAIP8	Significant
0.852113592	0.652311111	3.288091283	0.00149387	0.021575643	-1.195664741	EBAG9	Significant
1.415211219	2.199146914	3.281782305	0.001523638	0.02189664	-1.21295266	MYDGF	Significant
0.579536712	-0.20725679	3.279149388	0.001536225	0.021968774	-1.220160043	EDIL3	Significant
0.810706417	0.920053086	3.273926466	0.001561483	0.022220515	-1.234444496	DYNC1H1	Significant
0.721030819	0.991293827	3.26995106	0.001580968	0.022388055	-1.245305594	PDIA3	Significant
0.637307219	0.221251852	3.264955303	0.001605779	0.022494408	-1.258940302	CHCHD10	Significant

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0.651341943	0.253995062	3.264238219	0.00160937	0.022494408	-1.260896125	LMNB2	Significant
0.582148568	0.797319753	3.263611823	0.001612513	0.022494408	-1.262604332	FGFBP3	Significant
0.914924429	0.349075309	3.260544466	0.001627987	0.022494408	-1.270965585	CAPG	Significant
1.227732265	1.114119753	3.260018831	0.001630652	0.022494408	-1.27239781	APEX1	Significant
0.571302087	0.757624691	3.258529676	0.001638226	0.022494408	-1.276454445	PPP1R2	Significant
0.835217381	0.980432099	3.257649365	0.001642719	0.022494408	-1.27885186	IL16	Significant
0.588347998	0.811854321	3.251929648	0.001672194	0.022790515	-1.294416898	ZBTB17	Significant
0.756689801	0.257298765	3.248656217	0.001689285	0.022915862	-1.303315596	ANXA1	Significant
0.925012283	2.072893827	3.243255197	0.001717842	0.022947548	-1.317983286	NFE2	Significant
0.65221224	1.02487284	3.242810266	0.001720215	0.022947548	-1.319190775	SWAP70	Significant
0.36761836	0.342619753	3.24231442	0.001722863	0.022947548	-1.320536295	CHCHD6	Significant
0.743225607	1.486530864	3.239465296	0.00173815	0.022947548	-1.328264618	TRAF2	Significant
0.968679862	0.771317284	3.238944895	0.001740956	0.022947548	-1.329675664	COMMD1	Significant
0.771515374	0.753569136	3.238083633	0.00174561	0.022947548	-1.332010567	AKT2	Significant
0.851144138	1.93617037	3.237835191	0.001746954	0.022947548	-1.332684011	ZFYVE19	Significant
1.075785562	0.837577778	3.233206976	0.001772178	0.023174025	-1.345222451	AARSD1	Significant
0.990280499	2.132808642	3.219866175	0.001846808	0.023987223	-1.381288462	CCAR2	Significant
1.022203322	0.864538272	3.21865492	0.001853727	0.023987223	-1.384557418	SART1	Significant
0.933605969	0.875120988	3.217707858	0.001859154	0.023987223	-1.387112716	FXN	Significant
0.64783812	0.465295062	3.212865237	0.001887138	0.024240542	-1.400169835	RCOR1	Significant
1.138006791	0.756006173	3.209700847	0.001905637	0.024370322	-1.40869389	CASP1	Significant
1.151707226	2.220080247	3.204473477	0.001936567	0.024449488	-1.42276111	PIK3AP1	Significant
1.380107804	0.735730864	3.203834864	0.001940377	0.024449488	-1.424478468	FHIT	Significant
1.287418746	0.033882716	3.203434942	0.001942767	0.024449488	-1.425553805	NAMPT	Significant
0.760643473	1.00072716	3.202975596	0.001945516	0.024449488	-1.426788799	SEPTIN8	Significant
0.454624215	0.348377778	3.199488722	0.001966498	0.024568553	-1.436159199	MRC1	Significant
0.510098488	1.289566667	3.198593912	0.001971916	0.024568553	-1.438562602	GIPC2	Significant
0.630721299	0.999440741	3.187152807	0.002042439	0.025298498	-1.469247561	NFATC3	Significant
1.139527814	1.222675309	3.18567412	0.002051724	0.025298498	-1.473207273	RAB44	Significant
1.088534309	1.046828395	3.184500477	0.002059121	0.025298498	-1.476349125	PSMG4	Significant
1.805062887	-0.113024691	3.183290984	0.002066771	0.025298498	-1.479586024	IL6	Significant
1.203911408	1.290383951	3.181862973	0.002075836	0.025298498	-1.483406521	TADA3	Significant
0.638684516	0.619937037	3.179124736	0.002093324	0.025298498	-1.490728737	STK11	Significant
1.034435966	1.145498765	3.1784205	0.002097844	0.025298498	-1.49261113	HNRNPUL1	Significant
1.037318312	0.993977778	3.178050818	0.00210022	0.025298498	-1.493599146	EIF4E	Significant
1.102002139	0.738197531	3.174566402	0.002122741	0.025416666	-1.502907326	VIM	Significant
0.534920185	1.611766667	3.173828268	0.00212754	0.025416666	-1.504878158	PTK7	Significant
0.82402282	0.333698765	3.17195072	0.002139795	0.025458296	-1.509889667	MECR	Significant
1.385767372	1.762654321	3.167658276	0.002168059	0.025497137	-1.521338442	CA2	Significant
0.918765071	0.582544444	3.167079625	0.002171895	0.025497137	-1.52288091	CDC26	Significant
0.733761723	-0.052859259	3.166862976	0.002173334	0.025497137	-1.523458361	PGA4	Significant
1.083202183	1.298469136	3.166132116	0.002178192	0.025497137	-1.525406149	NFU1	Significant
0.46281975	0.152287654	3.162385899	0.002203251	0.025686903	-1.535384417	HARS1	Significant
0.360386329	-1.596892593	3.160581306	0.00221542	0.025725455	-1.540188185	TFRC	Significant
0.670787867	0.551306173	3.155990598	0.002246657	0.025962061	-1.552398418	VSIG4	Significant
0.761238802	0.13512716	3.154966301	0.002253682	0.025962061	-1.555120957	CALB2	Significant
1.041726875	1.334704938	3.153595989	0.002263113	0.025967657	-1.558762132	COMT	Significant
0.448623332	0.632774074	3.150504208	0.002284527	0.026110166	-1.566973114	LGALS3	Significant
0.671039027	0.560867901	3.148713892	0.002297013	0.02614992	-1.571724911	STIP1	Significant
1.017822624	1.475793827	3.145582176	0.002319008	0.026286678	-1.58003202	EIF2S2	Significant
0.593243974	0.649164198	3.144431867	0.002327136	0.026286678	-1.583081707	LRPAP1	Significant
0.917220253	1.253723457	3.140051044	0.002358335	0.026304306	-1.594688251	UBE2B	Significant
0.300711369	0.402208642	3.139270355	0.002363936	0.026304306	-1.596755302	SERPINA3	Significant
0.484204412	2.47342716	3.137416396	0.002377285	0.026304306	-1.601662494	CCN2	Significant
0.317154241	4.044683951	3.136647323	0.002382844	0.026304306	-1.603697476	SPARC	Significant
1.180400506	3.103376543	3.135925526	0.002388072	0.026304306	-1.605607019	FKBP5	Significant
0.926898223	1.486197531	3.135867075	0.002388496	0.026304306	-1.605761639	ATG16L1	Significant
0.96571471	-0.1476	3.135367021	0.002392124	0.026304306	-1.607084333	ELOA	Significant
1.376629143	1.37484321	3.130368048	0.002428683	0.026362016	-1.62029821	EHD3	Significant
1.817828625	1.164434568	3.130090956	0.002430725	0.026362016	-1.621030178	SAG	Significant
1.152273693	1.689612346	3.129973377	0.002431592	0.026362016	-1.62134076	DTYMK	Significant
0.827970174	0.972604938	3.129688044	0.002433696	0.026362016	-1.622094424	TNFAIP8L2	Significant
1.503868471	2.363701235	3.1262047	0.002459528	0.026534107	-1.631290876	EEF1D	Significant
1.36914776	1.49151358	3.123987285	0.002476104	0.026534107	-1.63714101	WASF3	Significant
0.668680359	0.821095062	3.123867314	0.002477004	0.026534107	-1.637457433	L3HYPDH	Significant
0.614799671	0.711398765	3.121585922	0.002494173	0.026619799	-1.64347284	TIA1	Significant
1.229807715	2.668158025	3.120072242	0.002505626	0.026644076	-1.647462131	DNAJA2	Significant
0.591072863	1.281087654	3.117918614	0.002522005	0.026644444	-1.653135424	BAG6	Significant
1.601715208	3.585754321	3.117167102	0.002527744	0.026644444	-1.655114418	MTSS1	Significant
0.754292962	2.300187654	3.116454741	0.002533196	0.026644444	-1.656989973	LAT2	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
1.291388564	2.328665432	3.113476649	0.002556104	0.026715247	-1.664827327	IST1	Significant
1.010178574	1.601737037	3.112507971	0.002563596	0.026715247	-1.66737532	ZNRD2	Significant
0.724432578	0.912240741	3.111999853	0.002567535	0.026715247	-1.668711621	GLOD4	Significant
0.957578919	1.457214815	3.108510772	0.002594732	0.02690181	-1.677883004	RALY	Significant
1.149399513	1.092879012	3.106801018	0.002608157	0.026944768	-1.682374352	RWDD1	Significant
0.666960335	0.357539506	3.104829747	0.002623716	0.027009386	-1.68755031	HBQ1	Significant
1.307411709	2.36212963	3.102901909	0.002639015	0.027061972	-1.69260977	PSTPIP2	Significant
1.12746672	0.560504938	3.101735088	0.002648316	0.027061972	-1.695670817	SMNDC1	Significant
1.450753133	1.521958025	3.100304012	0.002659764	0.027061972	-1.699423898	TBCA	Significant
0.812213611	0.840881481	3.09951291	0.002666112	0.027061972	-1.701498035	MARS1	Significant
1.153203931	0.967385185	3.097931974	0.002678841	0.027096431	-1.705641756	CEP20	Significant
0.410001992	0.86021358	3.089066515	0.002751275	0.027671379	-1.728848276	LAMP1	Significant
1.599884407	-2.30728642	3.088647151	0.002754746	0.027671379	-1.729944739	CES3	Significant
0.320678702	0.592058025	3.084965051	0.002785399	0.027882801	-1.739566958	REL	Significant
1.172845427	0.96148642	3.07765599	0.002847186	0.028403375	-1.758640911	FABP5	Significant
0.423388555	-0.824923457	3.072590757	0.002890751	0.028739212	-1.771838679	ITGB2	Significant
1.049394731	1.291059259	3.070821909	0.00290611	0.028793298	-1.776443538	UFD1	Significant
1.243270171	4.971437037	3.062106589	0.002982898	0.029453579	-1.79910208	EREG	Significant
0.623003255	0.707893827	3.059962344	0.003002077	0.029542472	-1.804669115	CWC15	Significant
0.537929576	0.46747037	3.053582255	0.003059823	0.029899809	-1.821215554	SGSH	Significant
1.358496874	0.992374074	3.052985961	0.003065273	0.029899809	-1.822760636	C2CD2L	Significant
1.252889032	2.484380247	3.051918013	0.003075055	0.029899809	-1.825527254	STAM	Significant
0.831153746	0.696795062	3.051424279	0.003079588	0.029899809	-1.826806061	RILP	Significant
0.774431242	-2.879130864	3.049752132	0.003094984	0.029904152	-1.831135846	LARP1	Significant
1.081383838	1.707737037	3.04914007	0.003100637	0.029904152	-1.83272023	DOK1	Significant
0.583089903	0.862340741	3.047482582	0.003115995	0.029952759	-1.837009558	STK4	Significant
0.850287308	1.951839506	3.045743336	0.003132186	0.03000903	-1.841508505	ADD1	Significant
0.890448994	1.425902469	3.032792818	0.003255225	0.031085259	-1.87494477	ASPSCR1	Significant
0.885624416	1.096330864	3.029634636	0.003285903	0.031154708	-1.883081808	IGBP1	Significant
0.479119615	0.254432099	3.029075852	0.003291359	0.031154708	-1.884520821	GPKOW	Significant
0.616166544	0.957207407	3.02873472	0.003294694	0.031154708	-1.885399221	CAT	Significant
0.406186785	0.204438272	3.024276193	0.003338568	0.031298439	-1.896872614	TFPI	Significant
1.497962431	1.938403704	3.02406958	0.003340614	0.031298439	-1.897403983	VPS4B	Significant
0.330626346	1.302644444	3.022869552	0.003352522	0.031298439	-1.900489658	PSAP	Significant
0.807375154	1.902240741	3.022819549	0.003353019	0.031298439	-1.900618213	VWF	Significant
0.866545535	0.894181481	3.019554509	0.003385622	0.031376653	-1.909008759	RFC4	Significant
0.893167321	1.593438272	3.014542971	0.003436237	0.031376653	-1.921873642	ICA1	Significant
1.024269998	1.381019753	3.014446436	0.003437219	0.031376653	-1.92212129	GGCT	Significant
0.542205795	-0.605065432	3.014410161	0.003437588	0.031376653	-1.922214346	LEO1	Significant
1.113027939	-0.770077778	3.014103402	0.00344071	0.031376653	-1.92300124	KCNC4	Significant
1.06557357	1.773511111	3.01398844	0.003441881	0.031376653	-1.923296122	PXN	Significant
0.747362258	1.093114815	3.013840859	0.003443384	0.031376653	-1.923674662	CHEK2	Significant
0.68925547	0.852595062	3.011123688	0.003471173	0.031376653	-1.930641495	UROD	Significant
1.053568857	1.390203704	3.010855568	0.003473926	0.031376653	-1.931328688	BAP18	Significant
0.43170426	0.002707407	3.010803577	0.00347446	0.031376653	-1.931461936	SPINK1	Significant
0.965960818	1.602687654	3.010236598	0.00348029	0.031376653	-1.932914927	ACYP1	Significant
0.525974829	0.365834568	3.008275276	0.003500527	0.031422513	-1.937939532	IL2RG	Significant
0.787600254	0.958269136	3.007647689	0.003507025	0.031422513	-1.939546769	DBI	Significant
0.547650843	0.368430864	3.003898805	0.003546076	0.03149036	-1.949142093	GADD45GIP1	Significant
0.470318355	0.970406173	3.003830812	0.003546788	0.03149036	-1.949316035	GNPDA1	Significant
0.649365676	0.924367901	3.002988302	0.003555622	0.03149036	-1.951471119	XIAP	Significant
0.887323765	0.814893827	3.002762962	0.003557988	0.03149036	-1.952047442	ELAC1	Significant
0.685197932	-0.136266667	3.000724524	0.003579457	0.031584083	-1.957259354	ANXA2	Significant
0.347142694	-0.021579012	2.999167332	0.003595938	0.031633361	-1.961238933	NGRN	Significant
1.26050345	2.200630864	2.993449851	0.003657058	0.031817772	-1.975836644	CIAPIN1	Significant
0.855209774	4.652359259	2.992668387	0.003665486	0.031817772	-1.977830152	MMP8	Significant
0.92354428	1.006728395	2.992533059	0.003666947	0.031817772	-1.97817533	NAA80	Significant
1.133919433	1.162433333	2.992122376	0.003671385	0.031817772	-1.979222777	GIGYF2	Significant
0.574875558	0.106180247	2.992092987	0.003671703	0.031817772	-1.979297729	C7orf50	Significant
0.827421319	1.663418519	2.987602236	0.003720562	0.032105518	-1.990743907	BACH1	Significant
0.573253495	0.433028395	2.985736114	0.003741042	0.032105518	-1.995496355	MAPK9	Significant
0.775435091	0.619559259	2.985097886	0.00374807	0.032105518	-1.997121192	BLVRB	Significant
0.783106266	0.769303704	2.98500028	0.003749146	0.032105518	-1.997369657	HGS	Significant
0.723924847	0.985969136	2.979821817	0.00380664	0.032501988	-2.010542802	ST13	Significant
1.167458807	1.882830864	2.978669766	0.003819541	0.032516505	-2.013470972	PPP1R12A	Significant
0.983918182	2.007646914	2.976199637	0.003847339	0.032657386	-2.019746288	TWF2	Significant
0.760971903	0.221893827	2.966791889	0.003954934	0.033332026	-2.043608815	ING1	Significant
1.021986791	1.382450617	2.96674367	0.003955493	0.033332026	-2.043730967	ATP6V1F	Significant
0.769894673	0.933771605	2.966118947	0.003962736	0.033332026	-2.045313427	HNRNPK	Significant
1.094637822	0.893985185	2.964911336	0.003976773	0.033332026	-2.048371626	USO1	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
0.997889212	0.722233333	2.96388821	0.003988701	0.033332026	-2.050961857	CES1	Significant
1.282653434	2.045491358	2.963288381	0.00399571	0.033332026	-2.052480107	SERPINB1	Significant
0.795025756	1.346048148	2.960109589	0.004033042	0.03354705	-2.060521999	NACC1	Significant
0.704879772	0.115859259	2.958200574	0.004055616	0.03363844	-2.065348251	TLR2	Significant
1.246979109	2.454076543	2.956449007	0.004076432	0.033674589	-2.06977428	TRIM5	Significant
0.610027784	0.423924691	2.955883389	0.004083174	0.033674589	-2.071203097	SRPX	Significant
0.494057912	1.077616049	2.954728872	0.00409697	0.033692642	-2.074118864	FKBP4	Significant
1.05343517	0.809630864	2.95074193	0.004144941	0.033980005	-2.084181067	ELOB	Significant
0.729153892	1.50122716	2.949884682	0.004155323	0.033980005	-2.086343173	ATXN3	Significant
0.932986266	0.337512346	2.947335443	0.004186338	0.034137473	-2.092769783	OFD1	Significant
0.990445761	1.194145679	2.945146547	0.00421314	0.034259795	-2.098284455	PHACTR2	Significant
0.730825944	1.261198765	2.940141836	0.004275018	0.034553895	-2.110881019	TNFAIP2	Significant
0.275612575	1.360581481	2.939814046	0.0042791	0.034553895	-2.111705454	TIMP1	Significant
0.951299516	2.031412346	2.937567106	0.004307177	0.034553895	-2.117354836	ARG1	Significant
0.998442074	1.838	2.937521384	0.00430775	0.034553895	-2.117469757	DNAJB2	Significant
0.53964648	0.261281481	2.937435892	0.004308822	0.034553895	-2.117684636	ENO2	Significant
0.620648496	1.042404938	2.934452279	0.004346381	0.03465365	-2.125180625	TRAF3	Significant
0.545419035	-0.016795062	2.933462349	0.004358909	0.03465365	-2.127666373	GCHFR	Significant
0.759573417	0.835759259	2.932654874	0.004369153	0.03465365	-2.129693479	FOXO1	Significant
0.35376177	0.963908642	2.931013714	0.004390042	0.03465365	-2.133812116	ASGR2	Significant
1.192768135	2.695907407	2.930065943	0.004402148	0.03465365	-2.136189798	TRIM25	Significant
0.901840249	0.605534568	2.930015912	0.004402787	0.03465365	-2.136315294	HS1BP3	Significant
0.85292932	0.222512346	2.929856913	0.004404821	0.03465365	-2.13671411	TGM2	Significant
1.376349039	1.618908642	2.923321809	0.00448918	0.035221863	-2.153091181	CC2D1A	Significant
1.824515045	0.341332099	2.918301546	0.004554994	0.035641906	-2.165652246	KRT8	Significant
0.614466112	2.128060494	2.913834713	0.0046143	0.036008904	-2.176814119	GLB1	Significant
1.472545957	0.672246914	2.912520617	0.004631882	0.036036222	-2.180095228	MAPK13	Significant
1.009402707	1.266108642	2.911609862	0.004644104	0.036036222	-2.18236856	PDZD2	Significant
0.248280562	0.27227284	2.910050735	0.004665096	0.036036222	-2.186258975	HYOU1	Significant
1.180256944	0.85912963	2.909066515	0.004678392	0.036036222	-2.188713993	SLC9A3R1	Significant
1.318433369	2.16418642	2.907667666	0.00469735	0.036036222	-2.192202114	RALB	Significant
1.236600392	2.000371605	2.907377805	0.004701287	0.036036222	-2.192924734	NAA10	Significant
0.54705447	0.016359259	2.907127141	0.004704695	0.036036222	-2.193549591	ENTPD2	Significant
1.580054776	-2.469317284	2.904445783	0.004741285	0.036220919	-2.200230993	SCN3A	Significant
0.457003582	0.108875309	2.902286336	0.004770943	0.036351832	-2.205608316	TRIAP1	Significant
0.86106806	1.338118519	2.898988436	0.004816568	0.036564182	-2.213814375	NUMB	Significant
1.219360654	1.469917284	2.898250416	0.004826833	0.036564182	-2.215649745	EVI5	Significant
0.78066446	1.439574074	2.897549615	0.004836599	0.036564182	-2.217392211	ABL1	Significant
1.17611837	0.215809877	2.89304401	0.004899822	0.036945934	-2.228586852	YOD1	Significant
0.652400445	0.495823457	2.889669222	0.004947676	0.037210113	-2.236962724	YJU2	Significant
0.352339374	1.231153086	2.88515634	0.00501234	0.037475556	-2.24815099	TNFSF13	Significant
0.723184195	0.768849383	2.884309514	0.005024561	0.037475556	-2.250248867	UBAC1	Significant
0.914048249	1.435432099	2.883075025	0.005042425	0.037475556	-2.253306232	CNP	Significant
0.754863366	1.618928395	2.883001099	0.005043496	0.037475556	-2.253489287	TMED8	Significant
1.43998316	1.951854321	2.882723851	0.005047517	0.037475556	-2.254175766	NT5C3A	Significant
0.373854244	0.417351852	2.876972291	0.005131598	0.037954504	-2.268404988	FAS	Significant
0.660832415	0.4331375	2.932097611	0.006178261	0.04171972	-2.26874642	ST6GAL1	Significant
0.804054019	-2.61807037	2.875763462	0.005149432	0.037954504	-2.2713927	SUGP1	Significant
0.92464539	1.26331358	2.875640586	0.005151249	0.037954504	-2.271696343	DNAJA4	Significant
0.902451323	1.686354321	2.873660951	0.005180588	0.038074045	-2.276586819	TANK	Significant
0.501696608	0.330348148	2.871836911	0.005207758	0.038177075	-2.281090518	OCLN	Significant
1.454460725	1.917667901	2.868178021	0.005262654	0.038482332	-2.290117685	SLMAP	Significant
0.771488585	1.161706173	2.866852197	0.005282678	0.038531691	-2.293386461	SRP14	Significant
1.382121392	0.960890123	2.864957019	0.005311421	0.038644248	-2.298056847	PADI4	Significant
1.067006521	1.880037037	2.863433993	0.005334624	0.038716036	-2.301808321	DNMBP	Significant
0.814167	2.456259259	2.861221996	0.00536849	0.038864656	-2.307253989	PSMG3	Significant
0.728952847	1.938477778	2.85831924	0.005413232	0.039016349	-2.314395088	GLRX	Significant
0.358858678	0.298753086	2.85811943	0.005416324	0.039016349	-2.314886428	RNASE4	Significant
-0.502725703	-0.128537037	-2.854021917	0.005480098	0.039378032	-2.32495626	CD5L	Significant
-1.084211542	1.4601	-2.848448137	0.005567958	0.039886064	-2.338635404	GHRL	Significant
0.655416996	0.368174074	2.847798702	0.005578278	0.039886064	-2.340227844	SEPTIN9	Significant
0.878133689	0.110616049	2.844316856	0.005633912	0.040178607	-2.348760466	APOB	Significant
0.636821727	-0.406523457	2.843510254	0.005646873	0.040178607	-2.350735925	CHGA	Significant
1.172369296	1.87792963	2.83591091	0.005770332	0.04095666	-2.369325384	PIBF1	Significant
0.840249273	1.80768642	2.834959042	0.00578597	0.040967487	-2.371651006	BOLA2 BOLA2B	Significant
0.726387853	0.057018519	2.831425113	0.005844367	0.04114317	-2.38027965	CENPF	Significant
0.298758896	0.266882716	2.830827092	0.005854303	0.04114317	-2.38173895	YWHAQ	Significant
0.715832093	0.743522222	2.829466002	0.005876974	0.04114317	-2.385059378	CDC37	Significant
0.901461231	0.686960494	2.829303355	0.005879688	0.04114317	-2.385456075	MORC3	Significant
0.613756645	0.976564198	2.829186153	0.005881645	0.04114317	-2.38574192	S100A4	Significant

Continued on the next page

logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
-0.534499534	0.613546914	-2.826232368	0.005931159	0.041339702	-2.392942768	CD79B	Significant
0.892532047	1.815795062	2.825812895	0.005938221	0.041339702	-2.393964881	MYO9B	Significant
0.431410322	0.470209877	2.823971866	0.005969309	0.041456707	-2.398449392	ADAMTSL2	Significant
0.38006959	0.716285185	2.821481426	0.0060116	0.041640158	-2.404512026	CCT5	Significant
0.899662813	1.469376543	2.8207302	0.006024411	0.041640158	-2.406339931	PSMD9	Significant
0.790132361	2.963506173	2.819262308	0.006049516	0.041714359	-2.409910513	PTRHD1	Significant
0.46900924	0.695961728	2.81795978	0.006071873	0.04171972	-2.413077595	CRELD2	Significant
1.102139272	0.932158025	2.817223788	0.006084539	0.04171972	-2.414866625	SEMA4C	Significant
0.502456727	1.347617284	2.814466558	0.006132206	0.04171972	-2.421565468	SUMF2	Significant
0.497723159	1.878491358	2.813631314	0.006146713	0.04171972	-2.423593691	DAG1	Significant
1.147424598	0.388759259	2.813179619	0.006154572	0.04171972	-2.42469034	AHSP	Significant
1.208333713	1.814077778	2.812444103	0.006167388	0.04171972	-2.426475756	AP3B1	Significant
0.256148624	1.087318519	2.811932889	0.00617631	0.04171972	-2.427716473	ADGRF5	Significant
0.734567742	0.858992593	2.811742574	0.006179635	0.04171972	-2.42817832	CYB5R2	Significant
1.317731644	2.175408642	2.806615527	0.006269818	0.042230349	-2.440610856	PKD2	Significant
0.670792584	1.277037037	2.803737541	0.006320967	0.04230467	-2.447581595	TBL1X	Significant
0.83129795	1.235606173	2.803666414	0.006322236	0.04230467	-2.447753799	SOD1	Significant
0.4754446	0.362912346	2.803535648	0.00632457	0.04230467	-2.448070379	PRDX2	Significant
0.988178942	0.14297037	2.802112429	0.006350019	0.042377253	-2.451515197	GATD3	Significant
1.433484742	2.996880247	2.799822561	0.006391162	0.042528091	-2.457054708	TBCB	Significant
1.412053219	2.808391358	2.799225993	0.006401921	0.042528091	-2.458497285	CALCOCO1	Significant
0.975494789	1.13915679	2.79762606	0.006430857	0.042622778	-2.462364893	TJAP1	Significant
1.148336522	2.979096296	2.795872098	0.006462716	0.042664124	-2.46660278	SCAMP3	Significant
-0.868711487	-0.622776543	-2.795439395	0.006470598	0.042664124	-2.467647938	FCRL1	Significant
0.680774286	0.832661728	2.794858964	0.006481185	0.042664124	-2.469049711	SMPDL3B	Significant
0.805163426	0.812177778	2.792763696	0.006519533	0.04274584	-2.474107932	SMOC1	Significant
1.171788407	-0.093477778	2.792527281	0.006523873	0.04274584	-2.474678473	AP2B1	Significant
1.233069992	1.574659259	2.791771118	0.006537772	0.04274584	-2.476503055	BAX	Significant
1.108877593	2.162464198	2.789182662	0.006585556	0.042961506	-2.482745827	NMNAT1	Significant
0.661786303	1.084135802	2.783819126	0.00668559	0.043460811	-2.495666468	EIF5	Significant
0.332509682	0.846350617	2.781960473	0.006720578	0.043460811	-2.500139199	CA4	Significant
1.413396808	1.494164198	2.781848169	0.006722697	0.043460811	-2.500409374	SEPTIN7	Significant
0.771858483	1.519360494	2.781599912	0.006727385	0.043460811	-2.501006584	RNF5	Significant
0.303378156	0.37995679	2.780393591	0.006750204	0.043460811	-2.503907911	CST3	Significant
1.690583876	-0.267469136	2.780302996	0.006751921	0.043460811	-2.50412576	SLC34A3	Significant
1.210894115	2.125232099	2.7775216	0.006804817	0.04370439	-2.510811223	CACYBP	Significant
0.903787959	-1.27381358	2.776059338	0.006832778	0.043787099	-2.514323782	INPP1	Significant
0.842679087	0.849902469	2.771073037	0.006928918	0.044193008	-2.526290235	FKBPL	Significant
0.671377732	-0.357188889	2.769462963	0.006960225	0.044193008	-2.530150451	ACE2	Significant
0.910568668	2.135897531	2.769426953	0.006960927	0.044193008	-2.530236765	IRAK1	Significant
0.88209201	-0.309558025	2.768907175	0.006971062	0.044193008	-2.531482549	TDO2	Significant
0.353874928	0.244488889	2.768359833	0.006981749	0.044193008	-2.53279419	SUSD2	Significant
0.854420156	0.898096296	2.768067775	0.006987458	0.044193008	-2.533493988	YY1	Significant
0.358797917	0.086780247	2.766080809	0.007026411	0.04434276	-2.538253333	CN2	Significant
0.362915701	0.879948148	2.765190899	0.007043921	0.044356837	-2.540384017	CREG1	Significant
0.829257296	2.857644444	2.762058792	0.007105867	0.044650067	-2.547878663	AMPD3	Significant
0.678501092	-0.456690123	2.757533461	0.007196248	0.045085313	-2.558694827	CHI3L1	Significant
0.592154583	0.232776543	2.75660115	0.007214998	0.045085313	-2.560921379	TYMP	Significant
0.352049827	2.910612346	2.756267164	0.007221726	0.045085313	-2.561718857	SERPINE1	Significant
1.055359159	0.033775309	2.750340591	0.00734207	0.045738261	-2.575856938	UBQLN3	Significant
1.257336099	2.134971605	2.746586517	0.007419245	0.046120061	-2.584799551	STX4	Significant
0.875425542	1.13858642	2.745456873	0.007442612	0.046166461	-2.587488531	BNIP2	Significant
1.392387888	1.664628395	2.743631879	0.007480506	0.046302576	-2.591830791	DCTN2	Significant
0.596603033	0.974075309	2.740513755	0.007545657	0.046494502	-2.599244359	TSPYL1	Significant
0.332953211	0.124925926	2.740301511	0.00755011	0.046494502	-2.599748734	IGFBPL1	Significant
1.022073328	1.490660494	2.739107343	0.007575212	0.046494502	-2.602585947	RAB11FIP3	Significant
0.750943163	1.309476543	2.739090023	0.007575577	0.046494502	-2.602627089	NAP1L4	Significant
0.41427455	-0.171704938	2.732516116	0.007715138	0.047251153	-2.618227741	BCAT1	Significant
1.088428484	0.540260494	2.731432592	0.007738365	0.047251884	-2.62079612	SF3B4	Significant
0.355801045	0.698079012	2.73099277	0.007747811	0.047251884	-2.621838432	LAMB1	Significant
0.683610036	1.865703704	2.727429566	0.00782473	0.047620945	-2.630277616	RNF41	Significant
1.016810575	0.473037037	2.724814547	0.007881623	0.047775098	-2.636465339	ANKMY2	Significant
0.361382242	0.72794321	2.724752663	0.007882973	0.047775098	-2.636611711	TPP1	Significant
0.369280202	3.265832099	2.723640876	0.00790728	0.047822568	-2.639240924	APP	Significant
-0.561631896	-0.759139506	-2.722074554	0.007941639	0.047930515	-2.642943549	TNFRSF13B	Significant
1.131576215	2.652928395	2.72123833	0.007960038	0.04794189	-2.64491958	SLC4A1	Significant
0.873560684	1.067207407	2.720093673	0.007985287	0.047994385	-2.647623642	FIS1	Significant
0.327869199	0.33181358	2.716319988	0.008069045	0.048130056	-2.656531726	RNASE6	Significant
0.970606709	2.612365432	2.71605331	0.008074994	0.048130056	-2.657160856	TOP2B	Significant
0.272599565	0.172051852	2.715837456	0.008079813	0.048130056	-2.657670046	BSG	Significant

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logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
0.363069341	1.142404938	2.71531075	0.008091581	0.048130056	-2.658912388	PTX3	Significant
0.292093265	0.655739506	2.71502858	0.008097892	0.048130056	-2.659577786	TNFRSF1A	Significant
1.121586982	-0.283128395	2.714606673	0.008107336	0.048130056	-2.660572784	ACAA1	Significant
0.719619851	0.744618519	2.713666744	0.008128413	0.048156702	-2.662788829	STX5	Significant
0.98549314	2.236064198	2.711609904	0.00817471	0.048263298	-2.667635981	PRDX5	Significant
0.538933293	0.946832099	2.711031375	0.008187776	0.048263298	-2.668998799	FCAR	Significant
1.036457726	1.027903704	2.710655178	0.008196282	0.048263298	-2.669884863	AK2	Significant
1.301599327	3.684638272	2.70813815	0.008253401	0.048501262	-2.675810662	MAP3K5	Significant
1.151171383	3.03781358	2.704709894	0.008331783	0.04886296	-2.683874458	CRKL	Significant
0.775443699	1.550666667	2.703499855	0.00835961	0.048927314	-2.686718651	TARS1	Significant
1.03684308	-0.052695062	2.701588988	0.008403726	0.048959048	-2.691208004	TREH	Significant
1.037739069	1.668855556	2.701518864	0.008405349	0.048959048	-2.691372702	IRAG2	Significant
0.501735136	0.798225926	2.701075095	0.008415627	0.048959048	-2.692414887	SIGLEC8	Significant
0.814484405	0.840662963	2.698246863	0.008481397	0.04922078	-2.699053635	CETN3	Significant
0.741727717	1.157444444	2.697684656	0.008494527	0.04922078	-2.700372629	ARHGEF10	Significant
0.482771142	0.680064198	2.696649422	0.008518752	0.049262821	-2.702800798	ATP5PO	Significant
0.341309712	0.145167901	2.695571087	0.008544052	0.049310902	-2.705329243	TCTN3	Significant
0.306531423	0.754135802	2.690734109	0.008658384	0.049785783	-2.716660569	GALNT10	Significant
0.917136096	1.380388889	2.690639514	0.008660634	0.049785783	-2.716882006	LACTB2	Significant
0.691085486	0.434748148	2.689770069	0.008681337	0.049806169	-2.718916967	PLEKHO1	Significant
0.479225124	0.21915679	2.688680813	0.008707338	0.049856809	-2.721465638	SMPD1	Significant

eTable 9: Mann-Whitney-U-Test results on NPX DEPs values from linear model analysis Olink Serum: MS vs MOGAD

	Discovery?	P value	Mean rank of MS	Mean rank of MOGAD	Mean rank diff.	Mann-Whitney U	q value
AHCY	Yes	0.000732	23.69	45.26	-21.57	243	0.000082
AHSP	Yes	0.002614	25.44	44.83	-19.39	271	0.00023
ANXA2	Yes	0.000698	23.63	45.28	-21.65	242	0.000082
APEX1	Yes	0.001546	24.69	45.02	-20.33	259	0.000156
ARG1	Yes	0.001071	24.19	45.14	-20.95	251	0.000114
AKT2	Yes	0.001767	24.88	44.97	-20.09	262	0.00017
BCAT1	Yes	0.013771	28.13	44.17	-16.04	314	0.001159
CASP8	Yes	0.000012	19.19	46.37	-27.18	171	0.000003
CILP	Yes	0.000004	18.25	46.6	-28.35	156	0.000002
CTSC	Yes	<0.000001	15.75	47.22	-31.47	116	<0.000001
ENO1	Yes	<0.000001	16.25	47.09	-30.84	124	<0.000001
FABP5	Yes	0.000057	20.75	45.98	-25.23	196	0.000008
FCER2	Yes	0.002201	56.81	37.11	19.7	267	0.000202
FST	Yes	0.000024	19.88	46.2	-26.33	182	0.000004
IL18R1	Yes	0.000019	19.63	46.26	-26.64	178	0.000003
LBR	Yes	0.000012	19.19	46.37	-27.18	171	0.000003
LTA4H	Yes	0.000001	17.25	46.85	-29.6	140	<0.000001
MME	Yes	0.000009	18.94	46.43	-27.49	167	0.000003
MPRIIP	Yes	0.00001	19	46.42	-27.42	168	0.000003
NUDT5	Yes	0.000048	20.56	46.03	-25.47	193	0.000008
OGA	Yes	0.000016	19.5	46.29	-26.79	176	0.000003
PCSK9	Yes	0.000007	18.75	46.48	-27.73	164	0.000003
PGD	Yes	0.000146	21.75	45.74	-23.99	212	0.000018
SEMA4C	Yes	0.036486	30	43.71	-13.71	344	0.002948
TAB2	Yes	0.000065	20.88	45.95	-25.08	198	0.000009

eTable 10: Antibody Panel A used for CyTOF measurements

Target	Isotope	Clone	Company	Dilution
Surface				
HLADR	¹⁴¹ Pr	L243	BioLegend	1:100
CD31	¹⁴² Nd	WM59	BioLegend	1:100
CD69	¹⁴⁴ Nd	FN50	Fluidigm	1:100
CD4	¹⁴⁵ Nd	RPA-T4	Fluidigm	1:100
CD11c	¹⁴⁶ Nd	3.9	Fluidigm	1:200
CD56	¹⁴⁷ Sm	NCAM16.2	BD	1:400
CD16	¹⁴⁸ Nd	3G8	Fluidigm	1:50
CD25	¹⁴⁹ Sm	2A3	Fluidigm	1:50
KLRG1	¹⁵⁰ Nd	14C2A07	BioLegend	1:100
ICOS	¹⁵¹ Eu	C398.4A	Fluidigm	1:50
TCRgd	¹⁵² Sm	11F2	Fluidigm	1:100
TCRVa7.2	¹⁵³ Eu	3C10	Fluidigm	1:100
CD3	¹⁵⁴ Sm	UCHT1	Fluidigm	1:200
CXCR3	¹⁵⁶ Gd	G025H7	Fluidigm	1:400
CCR4	¹⁵⁸ Gd	L291H4	Fluidigm	1:200
TIGIT	¹⁵⁹ Tb	MBSA43	Fluidigm	1:50
CD39	¹⁶⁰ Gd	A1	StandardBioTools	1:100
CD8	¹⁶² Dy	RPA-T8	Fluidigm	1:50
CD57	¹⁶³ Dy	HCD57	Fluidigm	1:100
CD28	¹⁶⁴ Dy	L293	BDBioscience	1:50
CD45RO	¹⁶⁵ Ho	UCHL1	Fluidigm	1:100
CCR7	¹⁶⁷ Er	G043H7	Fluidigm	1:100
CCR9	¹⁶⁸ Er	L053E8	Fluidigm	1:100
CD161	¹⁷⁰ Er	HP-3G10	BioLegend	1:50
CCR5	¹⁷¹ Yb	NP6G4	Fluidigm	1:100
CCR6	¹⁷² Yb	G034E3	BioLegend	1:100
CD95	¹⁷³ Yb	DX2	BioLegend	1:50
PD1	¹⁷⁴ Yb	EH12.2H7	Fluidigm	1:50
CCR10	¹⁷⁵ Lu	6588-5	BioLegend	1:200
CD127	¹⁷⁶ Yb	A019D5	DVS Sciences	1:200
CD47	²⁰⁹ Bi	CC2C6	Fluidigm	1:200
Intracellular				
cPARP	¹⁴³ Nd	F21-852	Fluidigm	1:200
Granzyme K	¹⁵⁵ Gd	GM26E7	BioLegend	1:100
CTLA4	¹⁶¹ Dy	14D3	Fluidigm	1:100
IL2	¹⁶⁶ Er	MQ117H12	Fluidigm	1:100
IL17A	¹⁶⁹ Tm	BL168	Fluidigm	1:100
GranzymeB	¹⁹⁸ Pt	GB11	StandardBioTools	1:100

eTable 11: Antibody Panel B used for CyTOF measurements

Target	Isotope tag	Clone	Company	Dilution
Surface				
HLADR	¹⁴¹ Pr	L243	BioLegend	1:100
CD19	¹⁴² Nd	HIB19	Fluidigm	1:100
CD38	¹⁴⁴ Nd	HIT2	Fluidigm	1:100
CD18	¹⁴⁵ Nd	TS1/18	BioLegend	1:100
IgD	¹⁴⁶ Nd	IA6-2	Fluidigm	1:100
CD123	¹⁴⁷ Sm	6H6	BioLegend	1:100
IgA	¹⁴⁸ Nd	polyclonal	Fluidigm	1:200
CD25	¹⁴⁹ Sm	2A3	Fluidigm	1:50
CD62L	¹⁵¹ Eu	DREG-56	BioLegend	1:100
CD21	¹⁵² Sm	BL13	Fluidigm	1:100
CD3	¹⁵⁴ Sm	UCHT1	Fluidigm	1:200
CD11c	¹⁵⁵ Gd	Bu15	BioLegend	1:100
CXCR3	¹⁵⁶ Gd	G025H7	Fluidigm	1:200
CCR4	¹⁵⁸ Gd	L291H4	Fluidigm	1:200
CD1c	¹⁵⁹ Tb	L161	BioLegend	1:100
CD14	¹⁶⁰ Gd	RM052	Fluidigm	1:100
EMR1	¹⁶¹ Dy	A10	Biorad	1:100
CD69	¹⁶² Dy	FN50	StandardBioTools	1:100
CD33	¹⁶³ Dy	WM53	StandardBioTools	1:100
CD95	¹⁶⁴ Dy	DX2	Fluidigm	1:50
CD16	¹⁶⁵ Ho	3G8	Fluidigm	1:50
CD141	¹⁶⁶ Er	M80	Fluidigm	1:50
CD27	¹⁶⁷ Er	O323	Fluidigm	1:50
CD71	¹⁶⁸ Er	OKT-9	Fluidigm	1:100
CD24	¹⁶⁹ Tm	ML5	Fluidigm	1:50
CD20	¹⁷¹ Yb	2H7	Fluidigm	1:100
IgM	¹⁷² Yb	MHM-88	Fluidigm	1:100
CXCR4	¹⁷³ Yb	12G5	Fluidigm	1:200
C3	¹⁷⁴ Yb	4C6A8	NovusBio	1:100
CD32	¹⁷⁶ Yb	FUN-2	BioLegend	1:100
CD11b	²⁰⁹ Bi	ICRF44	Fluidigm	1:200
Intracellular				
cPARP	¹⁴³ Nd	F21-852	Fluidigm	1:200
MIP1b	¹⁵⁰ Nd	D211351	Fluidigm	1:100
IL6	¹⁵³ Eu	MQ2-13A5	BioLegend	1:100
TNF	¹⁷⁵ Lu	MAb11	DVS Sciences	1:50
Tbet	¹⁷⁰ Er	4B10	BioLegend	1:50

eTable 12: Antibody Panel C used for CyTOF measurements

Target	Isotope tag	Clone	Company	Dilution
Surface				
HLADR	¹⁴¹ Pr	L243	BioLegend	1:100
CD116	¹⁴² Nd	4H1	BioLegend	1:100
CD38	¹⁴⁴ Nd	HIT2	Fluidigm	1:100
CD18	¹⁴⁵ Nd	TS1/18	BioLegend	1:100
CD64	¹⁴⁶ Nd	10.1	Fluidigm	1:100
CD123	¹⁴⁷ Sm	6H6	BioLegend	1:100
CD14	¹⁴⁸ Nd	RMO52	Fluidigm	1:100
TFGbR	¹⁴⁹ Sm	W17055E	BioLegend	1:100
CD86	¹⁵⁰ Nd	IT2.2	Fluidigm	1:100
CD15	¹⁵¹ Eu	W6D3	BioLegend	1:100
CD21	¹⁵² Sm	BL13	Fluidigm	1:100
CD62L	¹⁵³ Eu	DREG-56	Fluidigm	1:100
CD172a	¹⁵⁴ Sm	15-414	BioLegend	1:100
CD11c	¹⁵⁵ Gd	Bu15	BioLegend	1:100
CD61	¹⁵⁶ Gd	VI-PL2	BioLegend	1:100
Clec7a	¹⁵⁸ Gd	IgG polyclonal	LSBio	1:100
CD80	¹⁵⁹ Tb	QA18A16	BioLegend	1:100
CD163	¹⁶⁰ Gd	GHI/61	BioLegend	1:100
EMR1	¹⁶¹ Dy	A10	Biorad	1:100
CD69	¹⁶² Dy	FN50	StandardBioTools	1:100
CD33	¹⁶³ Dy	WM53	StandardBioTools	1:100
Siglec8	¹⁶⁴ Dy	7C9	StandardBioTools	1:100
CD16	¹⁶⁵ Ho	3G8	Fluidigm	1:50
CD34	¹⁶⁶ Er	581	Fluidigm	1:100
CD36	¹⁶⁷ Er	5-271	BioLegend	1:100
CD206	¹⁶⁸ Er	15-2	BioLegend	1:100
CD24	¹⁶⁹ Tm	ML5	Fluidigm	1:50
CD54	¹⁷⁰ Er	HA58	StandardBioTools	1:100
TLR8	¹⁷¹ Yb	S16018A	BioLegend	1:100
CXCR4	¹⁷³ Yb	12G5	Fluidigm	1:200
CCR3	¹⁷⁵ Lu	5E8	StandardBioTools	1:100
CD11b	²⁰⁹ Bi	ICRF44	Fluidigm	1:200
Intracellular				
cPARP	¹⁴³ Nd	F21-852	Fluidigm	1:200
Ki67	¹⁷² Yb	B56	StandardBioTools	1:100
BAFF	¹⁷⁴ Yb	1D6	BioLegend	1:100

eTable 13: Differentially abundant clusters in the peripheral blood between MS and MOGAD

Group	SampleID	Frequency (%)					
		T1	B1	B3	M1	M2	N1
MS	MS 1	66,5	0,24	0	44,44	33,72	35,42
	MS 2	64,7	5,91	2,73	63,32	23,73	27,98
	MS 3	45,1	9,71	2,1	59,83	11,19	37,47
	MS 4	68,4	2,84	0,66	64,07	13,84	19,76
	MS 5	69,8	0,83	2,9	69,33	16,53	24,66
	MS 6	57,6	1,11	2,03	69,15	7,58	31,12
	MS 7	55,1	0,61	0,34	61,5	14	24,86
	MS 8	55,6	0,19	0,52	65,11	16,63	25,87
	MS 9	57,8	2,91	1,62	70,22	11,98	22,11
	MS 10	69,7	8,65	15,68	64,37	17,08	39,21
	MS 11	78,8	2,48	0,66	63,44	18,69	33,64
	MS 12	55,2	6,11	4,58	65,79	8,13	30,35
	MS 13	59,6	1,26	0,56	55,05	26,01	32,86
	MS 14	62,8	0,19	0,95	54,25	13,07	20,13
	MS 15	72,1	0,55	0,37	75,76	9,33	56,17
	MS 16	69,8	0,17	1,02	75,29	10,59	24,48
MOGAD	MOGAD 1	54,2	3,71	1,14	55,17	17,87	27,41
	MOGAD 2	40,9	0	0	40,53	29,18	38,84
	MOGAD 3	53,3	ND	ND	50,35	29,72	38,56
	MOGAD 4	50,6	ND	ND	68,54	10,56	28,9
	MOGAD 5	54,5	0	0	51,65	25,61	13,04
	MOGAD 6	71	0,93	2,02	59,69	22,21	21,56
	MOGAD 7	52,4	2,78	0	60,98	31,15	29,3
	MOGAD 8	67,4	0,7	0,56	67,28	19,58	26,79
	MOGAD 9	55,9	ND	ND	43,53	19,12	21,58
	MOGAD 10	43,6	0	2,1	65,83	26,33	23
	MOGAD 11	53,5	8,2	2,05	62,23	21,63	13,65
	MOGAD 12	73,9	ND	ND	66,11	23,45	20,06
	MOGAD 13	54,3	1,3	0,33	62,19	20,22	21,33
	MOGAD 14	47,1	ND	ND	67,25	22,38	15,7
	MOGAD 15	50,6	ND	ND	53,4	22,31	17,41
	MOGAD 16	62,5	0	0	53,52	21,06	21,95
	MOGAD 17	74,5	0	0	72,23	13,38	30,8
	MOGAD 18	42,4	0,05	0,05	53,43	28,9	21,16
	MOGAD 19	70,5	0,46	0,6	52,99	32,15	43,69
	MOGAD 20	68,1	0,89	0,89	51,46	29,39	25,85
	MOGAD 21	46,1	0	0	45,69	37,75	16,14
	MOGAD 22	60,2	0,2	0	66,12	9,43	15,82

eTable 14: Mann- Whitney-U-Test results of CyTOF cluster abundances: MS vs MOGAD

	Significant	P value	Mean rank of MS	Mean rank of MOGAD	Mean rank diff.	Mann-Whitney U
Tcells_C1	Yes	0.038835	23.88	16.32	7.557	106
Tcells_C2	No	0.73691	18.75	20.05	-1.295	164
Tcells_C3	No	0.714968	18.69	20.09	-1.403	163
Tcells_C4	No	0.455493	21.13	18.32	2.807	150
Tcells_C5	No	0.356003	17.5	20.95	-3.455	144
Tcells_C6	No	>0.999999	19.5	19.5	0	176
Tcells_C7	No	0.941806	19.69	19.36	0.3239	173
Tcells_C8	No	0.82662	20	19.14	0.8636	168
Tcells_C9	No	0.803935	20.06	19.09	0.9716	167
Tcells_C10	No	0.128965	16.25	21.86	-5.614	124
Tcells_C11	No	0.079502	15.78	22.2	-6.423	116.5
Tcells_C12	No	0.941806	19.69	19.36	0.3239	173
NK cells_C1	No	0.922003	18.78	19.17	-0.3854	164.5
NK cells_C2	No	0.660463	18.06	19.71	-1.652	153
NK cells_C3	No	0.688584	18.16	19.64	-1.487	154.5
NK cells_C4	No	0.744705	18.31	19.52	-1.211	157
NK cells_C5	No	0.773601	19.63	18.52	1.101	158
NK cells_C6	No	0.382305	17.19	20.38	-3.193	139
NK cells_C7	No	0.307431	17.31	20.29	-2.973	141
NK cells_C8	No	0.921219	19.22	18.83	0.3854	164.5
NK cells_C9	No	0.467581	17.5	20.14	-2.643	144
NK cells_C10	No	0.432028	17.38	20.24	-2.863	142
NK cells_C11	No	0.679463	19.84	18.36	1.487	154.5
NK cells_C12	No	0.269031	16.97	20.55	-3.579	135.5
Bcells_C1	Yes	0.033722	20	13	7	72
Bcells_C2	No	0.12817	19.06	13.94	5.125	87
Bcells_C3	Yes	0.014881	20.47	12.53	7.938	64.5
Bcells_C4	No	0.471765	17.72	15.28	2.438	108.5
Bcells_C5	No	0.866924	16.81	16.19	0.625	123
Bcells_C6	No	0.723857	17.13	15.88	1.25	118
Bcells_C7	No	0.661947	17.25	15.75	1.5	116
Bcells_C8	No	0.589581	15.56	17.44	-1.875	113
Bcells_C9	No	0.89631	16.25	16.75	-0.5	124
Bcells_C10	No	0.239987	14.53	18.47	-3.938	96.5
Bcells_C11	No	0.808722	16.94	16.06	0.875	121
Bcells_C12	No	0.461535	15.25	17.75	-2.5	108
Myeloidcells_C1	Yes	0.045034	23.75	16.41	7.341	108
Myeloidcells_C2	Yes	0.002252	13.19	24.09	-10.9	75
Myeloidcells_C3	No	0.468889	17.94	20.64	-2.699	151
Myeloidcells_C4	No	0.222757	22.13	17.59	4.534	134
Myeloidcells_C5	No	0.33707	21.56	18	3.563	143
Myeloidcells_C6	No	0.608974	18.38	20.32	-1.943	158
Myeloidcells_C7	No	0.895454	19.19	19.73	-0.5398	171
Myeloidcells_C8	No	0.180752	22.38	17.41	4.966	130
Myeloidcells_C9	No	0.965064	19.38	19.59	-0.2159	174
Myeloidcells_C10	No	0.941806	19.31	19.64	-0.3239	173
Myeloidcells_C11	No	0.135448	22.69	17.18	5.506	125
Myeloidcells_C12	No	0.326066	21.63	17.95	3.67	142
Neutrophilis_C1	Yes	0.02854	24.13	16.14	7.989	102
Neutrophilis_C2	No	0.629629	20.56	18.73	1.835	159
Neutrophilis_C3	No	0.803935	18.94	19.91	-0.9716	167
Neutrophilis_C4	No	0.297776	17.25	21.14	-3.886	140
Neutrophilis_C5	No	0.58862	18.31	20.36	-2.051	157
Neutrophilis_C6	No	0.82662	20	19.14	0.8636	168
Neutrophilis_C7	No	0.284249	17.19	21.18	-3.994	139
Neutrophilis_C8	No	0.608974	18.38	20.32	-1.943	158
Neutrophilis_C9	No	0.420748	21.25	18.23	3.023	148
Neutrophilis_C10	No	0.455493	17.88	20.68	-2.807	150
Neutrophilis_C11	No	0.529476	18.13	20.5	-2.375	154
Neutrophilis_C12	No	0.420632	17.75	20.77	-3.023	148

eTable 15: Demographic and clinical information of patients with MOGAD

Sample ID	Disease Duration ¹	EDSS at Baseline ²	DMT		Total attack count ³	Clinical phenotype (1=yes, 0=no)			
						Optic neuritis	Myelitis	Brainstem	Cerebral syndrome
MOGAD 1	12,8	2	no		9	1	0	0	0
MOGAD 2	7,2	2	no		5	1	0	0	0
MOGAD 3	4,2	2,5	yes	Rituximab	1	1	1	0	0
MOGAD 4	0,4	4	yes	Rituximab	1	1	0	0	0
MOGAD 5	10,2	2	yes	Rituximab	4	1	0	0	0
MOGAD 6	8,9	2	no		1	0	1	0	1
MOGAD 7	9,0	3	no		1	0	1	0	0
MOGAD 8	20,5	0	no		7	1	0	0	0
MOGAD 9	5,0	2	yes	Rituximab	1	0	1	0	0
MOGAD 10	8,2	3,5	no		3	0	1	1	0
MOGAD 11	13,4	4,5	no		10	1	0	0	0
MOGAD 12	5,4	3	yes	Rituximab	1	0	1	0	0
MOGAD 13	3,1	1,5	no		2	0	1	0	0
MOGAD 14	5,8	6	yes	Rituximab	1	1	0	0	0
MOGAD 15	12,4	4,5	yes	Rituximab	7	1	0	0	0
MOGAD 16	2,5	2	yes	Rituximab	1	1	0	0	0
MOGAD 17	48,3	5,5	yes	Rituximab	7	0	1	0	0
MOGAD 18	2,5	3	no		1	1	1	0	0
MOGAD 19	18,5	1,5	no		8	0	1	0	0
MOGAD 20	26,6	4	no		5	1	0	0	0
MOGAD 21	2,2	3,5	no		1	1	0	0	0
MOGAD 22	7,3	1	no		3	0	1	0	0
MOGAD 23	2,4	3,5	no		1	0	0	1	0
MOGAD 24	22,3	2	yes	Rituximab	11	0	0	1	0
MOGAD 25	17,0	2	no		3	0	0	0	0
MOGAD 26	1,1	1	no		1	0	1	1	0
MOGAD 27	5,5	2	yes	Rituximab	2	0	1	0	0
MOGAD 28	1,4	3,5	yes	Rituximab	1	0	1	0	0
MOGAD 29	0,5	1	yes	Rituximab	2	0	0	0	0
MOGAD 30	2,0	3	no		5	1	0	0	0
MOGAD 31	1,2	1	no		1	1	0	0	0
MOGAD 32	1,1	5,5	no		1	0	1	0	0
MOGAD 33	1,9	0	no		1	1	0	0	0
MOGAD 34	1,4	0	yes	Rituximab	1	0	1	1	0

¹**Diseases duration** was defined as the interval from the earliest documented disease attack to the time of sample collection, based on clinical records.

²**EDSS score** was recorded at the patient's first study visit.

³**Total attack count** was defined as the cumulative number of clinical relapse events from the earliest documented disease attack to the time of sampling. This included both medically documented relapses and, where applicable, patient-reported relapse events.

eTable 16: Differential protein expression (linear model analysis) in Olink Serum samples: relapsing MOGAD vs monophasic MOGAD

logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
0.390632915	0.360167647	3.584633	0.001057	0.99912587	-3.605386	CRELD1	p-value < 0.05
-0.93308589	-0.36857941	-3.116713	0.003733	0.99912587	-3.822635	YOD1	p-value < 0.05
0.521793728	1.384097059	2.993099	0.005148	0.99912587	-3.879295	MATN3	p-value < 0.05
1.680840739	0.050539286	3.135743	0.004045	0.99912587	-3.915484	ABARAPL	p-value < 0.05
-0.81036219	2.096252941	-2.904059	0.006467	0.99912587	-3.919773	AP1G2	p-value < 0.05
0.997435947	1.278241176	2.804233	0.00832	0.99912587	-3.964751	IL10	p-value < 0.05
-0.5776183	-0.52131176	-2.748705	0.009555	0.99912587	-3.989558	EXTL1	p-value < 0.05
0.560992058	1.131211765	2.703447	0.010686	0.99912587	-4.009653	TNFSF8	p-value < 0.05
0.65703815	0.625252941	2.692814	0.010969	0.99912587	-4.014357	CRTAM	p-value < 0.05
0.689820544	0.779817647	2.691599	0.011001	0.99912587	-4.014894	CD2	p-value < 0.05
-0.57232634	0.013529412	-2.683278	0.011228	0.99912587	-4.018571	DAPP1	p-value < 0.05
1.274527385	-5.85195357	2.851485	0.008146	0.99912587	-4.024348	PSG1	p-value < 0.05
-0.48592231	2.133652941	-2.635234	0.012626	0.99912587	-4.039713	KLK13	p-value < 0.05
-1.02434805	2.86055	-2.634824	0.012639	0.99912587	-4.039893	PMVK	p-value < 0.05
-0.74717084	0.283167647	-2.611403	0.013378	0.99912587	-4.050147	COPB2	p-value < 0.05
0.889148525	-0.27173824	2.606318	0.013544	0.99912587	-4.052368	AOC1	p-value < 0.05
-0.84150295	2.986788235	-2.605754	0.013562	0.99912587	-4.052615	MAP2K6	p-value < 0.05
-0.62873197	3.148229412	-2.60227	0.013677	0.99912587	-4.054136	VAMP8	p-value < 0.05
-0.41330587	0.619332353	-2.597095	0.013849	0.99912587	-4.056394	TIA1	p-value < 0.05
0.82605622	0.810714706	2.59157	0.014035	0.99912587	-4.058802	KIR2DL3	p-value < 0.05
-0.38716389	1.475297059	-2.585973	0.014225	0.99912587	-4.06124	SUSD1	p-value < 0.05
-1.13852073	0.873002941	-2.584378	0.01428	0.99912587	-4.061934	SLK	p-value < 0.05
-0.64588375	2.176305882	-2.569818	0.014789	0.99912587	-4.068264	DNAJA2	p-value < 0.05
0.78819402	1.084435294	2.536717	0.016009	0.99912587	-4.0826	KIR2DL2	p-value < 0.05
0.448247945	1.392035294	2.528983	0.016307	0.99912587	-4.085938	HMOX1	p-value < 0.05
-0.39977472	2.052370588	-2.52824	0.016336	0.99912587	-4.086259	STX8	p-value < 0.05
0.367189176	0.72045	2.527085	0.016381	0.99912587	-4.086757	LILRA2	p-value < 0.05
-0.75804287	2.415576471	-2.501427	0.017411	0.99912587	-4.097797	PPP1R14	p-value < 0.05
1.976727546	-2.13687353	2.491731	0.017815	0.99912587	-4.101957	CASP4	p-value < 0.05
-0.34571002	0.702908824	-2.48784	0.01798	0.99912587	-4.103624	DSG4	p-value < 0.05
2.356252371	0.312170588	2.467189	0.018877	0.99912587	-4.112453	GH2	p-value < 0.05
-0.98343076	-0.91108235	-2.456397	0.019363	0.99912587	-4.117054	IL13	p-value < 0.05
-0.58453471	0.848155882	-2.446951	0.019797	0.99912587	-4.121074	AB11FIP	p-value < 0.05
-0.83242662	3.780755882	-2.440639	0.020092	0.99912587	-4.123756	VAV3	p-value < 0.05
0.413979496	0.561826471	2.435119	0.020353	0.99912587	-4.126099	LRIG1	p-value < 0.05
0.459545627	0.576320588	2.430927	0.020553	0.99912587	-4.127876	SGSH	p-value < 0.05
0.270924237	0.282773529	2.415871	0.021288	0.99912587	-4.134249	IL10RB	p-value < 0.05
-0.32882232	0.011211765	-2.402699	0.02195	0.99912587	-4.13981	KIT	p-value < 0.05
-0.6870353	2.303911765	-2.400174	0.022079	0.99912587	-4.140874	MAVS	p-value < 0.05

-0.77610905	2.904917647	-2.394365	0.022379	0.99912587	-4.14332	SULT1A1	p-value < 0.05
0.307916495	0.880458824	2.386258	0.022803	0.99912587	-4.14673	ASGR2	p-value < 0.05
-0.58008146	1.028997059	-2.385958	0.022819	0.99912587	-4.146856	CASP2	p-value < 0.05
-0.61517604	1.277111765	-2.379809	0.023146	0.99912587	-4.149438	NSFL1C	p-value < 0.05
-0.55298841	1.006129412	-2.377948	0.023246	0.99912587	-4.150219	CDKL5	p-value < 0.05
0.701881115	1.725391176	2.371128	0.023615	0.99912587	-4.153078	CCL8	p-value < 0.05
-0.68649644	-2.80272941	-2.368303	0.023769	0.99912587	-4.154261	ARAF	p-value < 0.05
-0.42775498	0.848402941	-2.361514	0.024144	0.99912587	-4.157102	GGCT	p-value < 0.05
0.460618566	0.375741176	2.349919	0.024796	0.99912587	-4.161944	FCGR3B	p-value < 0.05
1.191728663	1.069020588	2.334392	0.025695	0.99912587	-4.168409	FH	p-value < 0.05
0.451960622	0.587985294	2.328593	0.026038	0.99912587	-4.170818	GBP4	p-value < 0.05
-0.59414769	2.309567647	-2.31987	0.026562	0.99912587	-4.174437	CMIP	p-value < 0.05
-1.24452041	2.853276471	-2.306766	0.027367	0.99912587	-4.17986	OLFM4	p-value < 0.05
0.406747864	0.414838235	2.306511	0.027382	0.99912587	-4.179965	FGFBP2	p-value < 0.05
-0.59360448	2.586817647	-2.301411	0.027702	0.99912587	-4.182072	SCAMP3	p-value < 0.05
-0.63475787	3.330488235	-2.291985	0.028301	0.99912587	-4.185958	CEP170	p-value < 0.05
-0.41112034	2.305679412	-2.291342	0.028342	0.99912587	-4.186223	THTPA	p-value < 0.05
1.275914543	-0.37112941	2.28667	0.028644	0.99912587	-4.188146	DOCK9	p-value < 0.05
-0.60726938	3.196073529	-2.271587	0.029637	0.99912587	-4.19434	SNAP29	p-value < 0.05
-0.51364519	0.642873529	-2.268753	0.029827	0.99912587	-4.195502	CACNB3	p-value < 0.05
1.307599531	0.028232353	2.266801	0.029959	0.99912587	-4.196302	GBP2	p-value < 0.05
-0.62915867	4.241702941	-2.265314	0.03006	0.99912587	-4.196911	RAB27B	p-value < 0.05
0.422210562	0.161691176	2.245388	0.031437	0.99912587	-4.205049	ICAM4	p-value < 0.05
-0.78918747	0.450764706	-2.24384	0.031546	0.99912587	-4.20568	SNCA	p-value < 0.05
-1.09979062	-0.48474412	-2.242775	0.031622	0.99912587	-4.206114	DUSP3	p-value < 0.05
0.744738308	0.627411765	2.240604	0.031776	0.99912587	-4.206998	KDM3A	p-value < 0.05
-0.31599439	2.666338235	-2.23206	0.032389	0.99912587	-4.210472	SIAE	p-value < 0.05
-0.53133173	0.533426471	-2.230671	0.03249	0.99912587	-4.211036	TYRP1	p-value < 0.05
-0.54106255	1.6021	-2.227268	0.032738	0.99912587	-4.212417	CIAPIN1	p-value < 0.05
0.85837254	0.489926471	2.225443	0.032872	0.99912587	-4.213158	03A_DEF	p-value < 0.05
-0.70073414	2.469741176	-2.222299	0.033103	0.99912587	-4.214432	PRKG1	p-value < 0.05
-0.45295877	1.961541176	-2.219414	0.033317	0.99912587	-4.215601	GLB1	p-value < 0.05
-0.69522702	3.196923529	-2.217473	0.033461	0.99912587	-4.216387	SMTN	p-value < 0.05
-0.60250554	1.525494118	-2.205512	0.034364	0.99912587	-4.221221	TACC3	p-value < 0.05
0.444788766	0.439788235	2.20141	0.034679	0.99912587	-4.222876	CD28	p-value < 0.05
0.426667335	1.065264706	2.19545	0.03514	0.99912587	-4.225277	IL32	p-value < 0.05
-0.37607027	1.276291176	-2.191611	0.03544	0.99912587	-4.226822	DNAJB2	p-value < 0.05
-0.54994185	1.605508824	-2.189526	0.035604	0.99912587	-4.22766	SLC27A4	p-value < 0.05
-0.60625937	1.739258824	-2.18949	0.035607	0.99912587	-4.227674	IST1	p-value < 0.05
-0.61643755	-0.19616176	-2.185522	0.035921	0.99912587	-4.229269	MICALL2	p-value < 0.05
-0.53827274	0.139308824	-2.180896	0.03629	0.99912587	-4.231125	PI3	p-value < 0.05
-0.61998695	1.873579412	-2.174248	0.036827	0.99912587	-4.233789	ESYT2	p-value < 0.05

-0.40192275	1.126335294	-2.156703	0.038277	0.99912587	-4.240799	DNAJC6	p-value < 0.05
0.36913821	0.665594118	2.15308	0.038582	0.99912587	-4.242242	RNASE10	p-value < 0.05
-0.64044727	2.387288235	-2.145846	0.039199	0.99912587	-4.24512	TBCB	p-value < 0.05
0.385146569	0.192823529	2.143985	0.039359	0.99912587	-4.24586	ASAH2	p-value < 0.05
0.250326768	0.457238235	2.131379	0.040459	0.99912587	-4.250859	PON1	p-value < 0.05
0.738343075	0.406638235	2.121887	0.041304	0.99912587	-4.254613	LIF	p-value < 0.05
-0.53692704	1.628005882	-2.120975	0.041387	0.99912587	-4.254973	EEF1D	p-value < 0.05
-0.43918478	1.470464706	-2.119368	0.041532	0.99912587	-4.255608	PLSCR3	p-value < 0.05
-0.73913442	0.091585294	-2.116216	0.041817	0.99912587	-4.256851	EIF2AK3	p-value < 0.05
-0.89108777	1.384344118	-2.11393	0.042026	0.99912587	-4.257752	RHGEF1	p-value < 0.05
-0.59120015	1.788905882	-2.110941	0.042299	0.99912587	-4.25893	SPART	p-value < 0.05
0.286619785	0.647455882	2.109311	0.042449	0.99912587	-4.259571	THBD	p-value < 0.05
0.296552452	0.096176471	2.100803	0.043239	0.99912587	-4.262916	HLA-E	p-value < 0.05
-0.48275166	0.912982353	-2.098025	0.0435	0.99912587	-4.264006	CC2D1A	p-value < 0.05
-0.76442237	2.859258824	-2.09753	0.043547	0.99912587	-4.2642	GIPC3	p-value < 0.05
1.093297881	-1.49433824	2.097455	0.043554	0.99912587	-4.26423	BSND	p-value < 0.05
0.188100979	0.198561765	2.095395	0.043749	0.99912587	-4.265038	C1S	p-value < 0.05
0.548061386	0.596526471	2.091404	0.044128	0.99912587	-4.266602	ATP1B1	p-value < 0.05
-0.55989888	2.008008824	-2.089421	0.044317	0.99912587	-4.267378	TBC1D23	p-value < 0.05
0.178255673	0.371917647	2.087863	0.044466	0.99912587	-4.267988	C1RL	p-value < 0.05
-0.52945491	1.322267647	-2.081198	0.04511	0.99912587	-4.270593	MAPKAPK	p-value < 0.05
-0.59687147	3.042967647	-2.075624	0.045655	0.99912587	-4.272768	DBNL	p-value < 0.05
-0.40053205	1.173938235	-2.068267	0.046383	0.99912587	-4.275633	DIABLO	p-value < 0.05
0.394066019	0.10855	2.067611	0.046448	0.99912587	-4.275888	C9	p-value < 0.05
-0.48736549	1.871108824	-2.06355	0.046855	0.99912587	-4.277467	CRADD	p-value < 0.05
-0.57756562	2.615988235	-2.060238	0.047189	0.99912587	-4.278753	SRC	p-value < 0.05
0.15156398	0.351655882	2.058943	0.04732	0.99912587	-4.279256	C1R	p-value < 0.05
-0.2471983	0.352817647	-2.056003	0.047619	0.99912587	-4.280396	DNAJB8	p-value < 0.05
-0.39485932	0.250073529	-2.055117	0.047709	0.99912587	-4.280739	C2CD2L	p-value < 0.05
0.388097214	0.607264706	2.054899	0.047731	0.99912587	-4.280824	TLR4	p-value < 0.05
0.339076616	0.237044118	2.050772	0.048154	0.99912587	-4.282422	CD300LG	p-value < 0.05
-0.47507901	1.883591176	-2.050153	0.048218	0.99912587	-4.282662	STAM	p-value < 0.05
0.400990936	-1.00798529	2.048352	0.048404	0.99912587	-4.283359	LBP	p-value < 0.05
-0.31609623	0.0536	-2.040747	0.049196	0.99912587	-4.286297	CD1C	p-value < 0.05
-0.6119938	1.947802941	-2.037993	0.049486	0.99912587	-4.287359	CRYGD	p-value < 0.05
-0.65754971	0.018929412	-2.037729	0.049514	0.99912587	-4.287461	ANKMY2	p-value < 0.05
-0.51779173	1.84965	-2.036639	0.049629	0.99912587	-4.287882	APPL2	p-value < 0.05
0.529866158	-2.51850882	2.036605	0.049633	0.99912587	-4.287895	FGL1	p-value < 0.05
-2.5005194	5.877516667	-2.664514	0.039903	0.99912587	-4.558564	NUBP1	p-value < 0.05
-1.9362908	-1.17341667	-2.58263	0.044342	0.99912587	-4.559963	TSC1	p-value < 0.05

eTable 17 is provided in a separated CSV file.

eTable 18: Multiple unpaired t tests results of CyTOF cluster abundances: relapsing MOGAD vs MOGAD monophasic

	Significance	P value	Mean of relapsing MOGAD	Mean of monophasic MOGAD	Difference	SE of difference	t ratio	df
T1	No	0.214826	58.94	53.48	5.459	4.258	1.282	19.52
T2	No	0.07171	1.988	2.991	-1.003	0.4965	2.02	9.733
T3	No	0.079565	2.757	0.8471	1.91	1.013	1.886	14.45
T4	Yes	0.039734	1.311	0.6073	0.7034	0.3184	2.209	18.89
T5	No	0.85925	5.79	5.405	0.3851	2.144	0.1797	19.7
T6	No	0.982445	3.091	3.058	0.03308	1.483	0.02231	18.36
T7	No	0.513214	5.377	6.151	-0.7747	1.164	0.6657	19.94
T8	No	0.574578	0.8447	1.026	-0.181	0.315	0.5747	14.09
T9	No	0.767118	2.321	2.105	0.2155	0.7173	0.3005	18.68
T10	Yes	0.035639	17.12	23.79	-6.677	2.914	2.291	16.23
T11	No	0.160827	0.2101	0.1518	0.05826	0.04	1.457	19.89
T12	No	0.39239	0.2506	0.3788	-0.1282	0.1437	0.8916	10.59

eTable 19: Differentially abundant clusters between MOGAD relapse and MOGAD monophasic peripheral blood samples

Group	SampleID	Frequency (%)		
		T2	T4	T10
MOGAD relapsing	MOGAD 1	1,99	0,78	22,27
	MOGAD 2	1,52	3,23	14,95
	MOGAD 5	2,13	0,3	34,87
	MOGAD 8	2,99	1,89	11,03
	MOGAD 10	2,6	0,6	9,38
	MOGAD 11	2,36	2,51	15,37
	MOGAD 12	2,41	0,12	19,59
	MOGAD 13	1,14	1,28	15,55
	MOGAD 15	1,53	2,34	17,09
	MOGAD 17	1,3	1,18	16,4
	MOGAD 19	1,73	1,68	13,79
	MOGAD 20	2,45	0,15	13,5
	MOGAD 22	1,68	0,98	18,74
MOGAD monophasic	MOGAD 3	2,84	0,27	23,36
	MOGAD 4	3,91	0,12	34,58
	MOGAD 6	1,97	0,18	16,55
	MOGAD 7	3,59	0,31	26,48
	MOGAD 9	5,98	0,96	17,55
	MOGAD 14	1,74	0,43	28,55
	MOGAD 16	3,36	0,42	17,96
	MOGAD 18	1,54	1,26	32,16
	MOGAD 21	2	1,51	16,96

eTable 20 is provided in a separated CSV file.

eTable 21: Differential protein expression (linear model analysis) in Olink Serum samples : non ON vs ON

logFC	AveExpr	t	P.Value	adj.P.Val	B	Assay	Significance
-1.3177141	-0.6948794	-4.4506889	8.92E-05	0.25346045	-2.8417066	SCGB3A2	p-value < 0.05
1.08792751	0.39110882	3.65663783	0.00086542	0.91885534	-3.3074678	FGF6	p-value < 0.05
-0.7194285	-0.0264147	-3.3668524	0.00191671	0.91885534	-3.4792883	THSD1	p-value < 0.05
-0.4906588	0.93322647	-3.2914525	0.00234802	0.91885534	-3.5238106	LGALS4	p-value < 0.05
-0.4812884	0.19049118	-3.0935771	0.00396509	0.91885534	-3.6398974	HS3ST3B1	p-value < 0.05
-0.595185	2.24286176	-3.0361044	0.00460524	0.91885534	-3.6733425	LAT2	p-value < 0.05
-0.834141	0.80349412	-3.0285237	0.00469664	0.91885534	-3.677743	PAFAH2	p-value < 0.05
0.56632461	0.58567059	3.01175627	0.00490493	0.91885534	-3.6874665	HPGDS	p-value < 0.05
-0.9122169	-0.3361794	-2.9543368	0.00568624	0.91885534	-3.720659	CEACAM5	p-value < 0.05
-0.4912663	1.17070882	-2.9162993	0.00626688	0.91885534	-3.7425514	ACTN4	p-value < 0.05
-0.4561763	1.11605	-2.860211	0.00722552	0.91885534	-3.774681	COL5A1	p-value < 0.05
-0.55136	0.57742647	-2.8462844	0.00748401	0.91885534	-3.7826291	KLRD1	p-value < 0.05
1.80143001	-3.2316765	2.79112164	0.00859539	0.91885534	-3.8139874	RLN1	p-value < 0.05
1.77500305	-7.3946412	2.76394008	0.00919804	0.91885534	-3.8293634	RLN2	p-value < 0.05
1.33790929	-2.47195	2.74898001	0.00954631	0.91885534	-3.8378035	GFOD2	p-value < 0.05
0.50689121	0.17458824	2.73455582	0.0098937	0.91885534	-3.8459259	CLEC4M	p-value < 0.05
0.44980452	0.25172353	2.73119982	0.0099762	0.91885534	-3.8478135	CD209	p-value < 0.05
-1.0361639	-0.9110824	-2.7157146	0.01036521	0.91885534	-3.8565123	IL13	p-value < 0.05
-0.6303419	-4.5202588	-2.7098248	0.01051683	0.91885534	-3.8598161	OPHN1	p-value < 0.05
-1.635003	3.86835357	-2.9021067	0.00720148	0.91885534	-3.8772385	MTHFSD	p-value < 0.05
-1.4434573	-0.0883971	-2.6741285	0.01148076	0.91885534	-3.8797817	GSTT2B	p-value < 0.05
-0.5374219	0.87514118	-2.6736036	0.01149553	0.91885534	-3.8800745	TRAF3	p-value < 0.05
-1.1234035	2.51861765	-2.6645093	0.01175419	0.91885534	-3.8851446	PFKFB2	p-value < 0.05
-0.7849087	1.46281765	-2.6213434	0.01305706	0.91885534	-3.9091168	ZBP1	p-value < 0.05
-1.339404	2.85327647	-2.6108428	0.01339357	0.91885534	-3.9149245	OLFM4	p-value < 0.05
0.28696487	0.31248824	2.56249221	0.0150488	0.91885534	-3.9415414	LYVE1	p-value < 0.05
1.24493868	1.23023824	2.55044526	0.01548954	0.91885534	-3.9481404	MN1	p-value < 0.05
-0.6226788	2.43604706	-2.541136	0.01583822	0.91885534	-3.9532306	PRTN3	p-value < 0.05
-0.5689524	0.24465882	-2.5396563	0.0158943	0.91885534	-3.9540389	IMMT	p-value < 0.05
0.72701263	-0.3839529	2.53434456	0.01609713	0.91885534	-3.9569389	OMP	p-value < 0.05
-0.545096	1.16074118	-2.5234929	0.0165189	0.91885534	-3.9628552	FUS	p-value < 0.05
-0.5397944	1.6235	-2.5172065	0.01676784	0.91885534	-3.9662774	IRAK4	p-value < 0.05
-0.4442916	1.59277353	-2.5136269	0.01691113	0.91885534	-3.9682244	CXCL8	p-value < 0.05
2.49888158	-2.3784324	2.51292999	0.01693916	0.91885534	-3.9686033	PNLIPRP2	p-value < 0.05
-0.3989773	0.71671471	-2.5088411	0.01710446	0.91885534	-3.9708255	XIAP	p-value < 0.05
-0.2681396	0.14283824	-2.500946	0.01742782	0.91885534	-3.9751116	OCLN	p-value < 0.05
-1.2846407	0.20016176	-2.4752683	0.0185186	0.91885534	-3.9890093	NMRK2	p-value < 0.05
-0.4801995	0.90111176	-2.4560247	0.0193766	0.91885534	-3.9993813	DDC	p-value < 0.05

-0.512191	-0.2542382	-2.4289957	0.02064305	0.91885534	-4.0138853	REG3A	p-value < 0.05
-0.3895544	3.98451176	-2.4288834	0.02064847	0.91885534	-4.0139454	GAPDH	p-value < 0.05
-0.7178855	1.48539412	-2.4131644	0.02141941	0.91885534	-4.0223449	HCLS1	p-value < 0.05
-0.4953504	1.18356765	-2.4036211	0.02190015	0.91885534	-4.0274315	SAMD9L	p-value < 0.05
-0.9109647	-1.5118353	-2.3990168	0.02213557	0.91885534	-4.0298821	PPY	p-value < 0.05
-0.360538	0.65564412	-2.3948349	0.02235139	0.91885534	-4.0321059	VSNL1	p-value < 0.05
-0.6882278	3.28694412	-2.3938785	0.02240102	0.91885534	-4.0326142	AZU1	p-value < 0.05
-0.3807893	0.59002059	-2.3571878	0.02438203	0.91885534	-4.0520387	CA14	p-value < 0.05
-0.4758429	0.14211765	-2.3560543	0.02444569	0.91885534	-4.0526364	S100A11	p-value < 0.05
0.44461051	-0.4012529	2.35289609	0.02462383	0.91885534	-4.054301	MYOC	p-value < 0.05
-0.3394522	1.06104412	-2.3065684	0.0273755	0.91885534	-4.0785867	VASP	p-value < 0.05
-0.3479575	0.02653529	-2.2812716	0.02899235	0.91885534	-4.0917413	IL20	p-value < 0.05
-0.2136796	0.32623529	-2.2710835	0.02966743	0.91885534	-4.0970175	BLOC1S3	p-value < 0.05
-0.5071848	-0.4065471	-2.2703173	0.02971876	0.91885534	-4.0974137	CCL16	p-value < 0.05
-0.3047145	1.28303824	-2.2480951	0.03124282	0.91885534	-4.1088758	BCR	p-value < 0.05
-0.5265111	0.83307353	-2.2243605	0.03294764	0.91885534	-4.1210501	COX6B1	p-value < 0.05
0.44138786	0.46393529	2.21731195	0.03346971	0.91885534	-4.1246518	PLXDC1	p-value < 0.05
-0.4385562	0.44907941	-2.2086608	0.03412058	0.91885534	-4.1290637	CXADR	p-value < 0.05
-0.3265093	0.23443235	-2.2064	0.03429253	0.91885534	-4.1302151	OTUD7B	p-value < 0.05
-0.6163679	1.06195294	-2.2059928	0.03432358	0.91885534	-4.1304224	S100A14	p-value < 0.05
-1.2073135	0.54721176	-2.205812	0.03433738	0.91885534	-4.1305144	DTX2	p-value < 0.05
-0.7370806	1.00402647	-2.2057038	0.03434564	0.91885534	-4.1305695	NAA80	p-value < 0.05
0.36838384	2.36105	2.20550866	0.03436053	0.91885534	-4.1306689	CCN2	p-value < 0.05
-0.7753229	0.89120882	-2.2046702	0.03442461	0.91885534	-4.1310956	MYH7B	p-value < 0.05
-0.4045647	0.67085588	-2.2007221	0.03472778	0.91885534	-4.1331039	IL2RB	p-value < 0.05
-1.2028305	-0.4147412	-2.1976088	0.03496852	0.91885534	-4.134686	CLNS1A	p-value < 0.05
-0.5260753	0.04045588	-2.1964957	0.03505495	0.91885534	-4.1352514	S100P	p-value < 0.05
-0.2456458	0.07427059	-2.18664	0.0358286	0.91885534	-4.1402503	TNFRSF10A	p-value < 0.05
-0.3987664	1.35055882	-2.1763501	0.03665254	0.91885534	-4.1454558	BAG4	p-value < 0.05
-0.2672013	0.48738235	-2.1732343	0.03690534	0.91885534	-4.1470294	ANPEP	p-value < 0.05
-0.3385901	2.05237059	-2.1614275	0.0378774	0.91885534	-4.1529802	STX8	p-value < 0.05
-0.7716003	0.74104706	-2.1593608	0.03804986	0.91885534	-4.1540199	IZUMO1	p-value < 0.05
-0.675073	2.06440588	-2.1587272	0.03810288	0.91885534	-4.1543386	NADK	p-value < 0.05
-0.6120401	0.66157647	-2.1442928	0.03932857	0.91885534	-4.1615831	CXCL9	p-value < 0.05
-0.936198	2.1928	-2.1429529	0.0394441	0.91885534	-4.1622541	TBC1D5	p-value < 0.05
-0.4288316	1.89867647	-2.1299391	0.04058196	0.91885534	-4.1687591	TRIM5	p-value < 0.05
-0.555401	0.55350588	-2.1189487	0.04156544	0.91885534	-4.1742345	AZI2	p-value < 0.05
-0.5658549	0.28112647	-2.1187174	0.04158637	0.91885534	-4.1743496	PPP1R12B	p-value < 0.05
-0.3296875	0.97052647	-2.1133082	0.04207834	0.91885534	-4.1770382	CLSTN2	p-value < 0.05
-0.4055599	0.6114	-2.1071928	0.04264072	0.91885534	-4.1800728	TBCA	p-value < 0.05
-0.4114276	-0.706	-2.1039032	0.04294598	0.91885534	-4.1817031	GABARAP	p-value < 0.05

-0.3629282	0.96565	-2.1028611	0.04304308	0.91885534	-4.1822192	ADAMTS4	p-value < 0.05
0.34971474	0.66559412	2.09836442	0.04346431	0.91885534	-4.1844446	RNASE10	p-value < 0.05
-0.6601211	0.65816471	-2.092174	0.04405015	0.91885534	-4.1875035	NFKBIE	p-value < 0.05
-0.342988	0.03082647	-2.0863705	0.0446057	0.91885534	-4.1903663	ADGRD1	p-value < 0.05
0.93237677	-1.7696912	2.07903667	0.04531655	0.91885534	-4.1939772	TCL1A	p-value < 0.05
-0.2682834	-0.0888441	-2.0767111	0.04554404	0.91885534	-4.1951206	ANXA1	p-value < 0.05
0.47052105	8.25053529	2.07443741	0.04576743	0.91885534	-4.1962378	RASGRF1	p-value < 0.05
-0.3330184	0.44458824	-2.0728056	0.04592834	0.91885534	-4.1970391	RWDD1	p-value < 0.05
0.67530865	-0.2422529	2.06969699	0.04623627	0.91885534	-4.1985645	NRTN	p-value < 0.05
-0.6323525	2.74326471	-2.0688767	0.04631782	0.91885534	-4.1989668	CERT1	p-value < 0.05
-0.2924719	0.30473235	-2.0687978	0.04632568	0.91885534	-4.1990055	SIGLEC7	p-value < 0.05
-0.4034957	0.30422353	-2.0686144	0.04634392	0.91885534	-4.1990954	IL22RA1	p-value < 0.05
-0.6760755	1.88395294	-2.0639954	0.04680576	0.91885534	-4.2013588	EIF2AK2	p-value < 0.05
-0.3284977	-0.1302265	-2.0632062	0.04688507	0.91885534	-4.2017452	SPINK2	p-value < 0.05
-0.8615249	0.44668529	-2.0624676	0.0469594	0.91885534	-4.2021068	KRT8	p-value < 0.05
-1.5788471	-0.0117324	-2.0601802	0.04719027	0.91885534	-4.2032259	ERCC1	p-value < 0.05
-0.2553355	0.20302059	-2.056296	0.04758459	0.91885534	-4.2051247	AMFR	p-value < 0.05
-0.5518087	1.12604412	-2.056016	0.04761312	0.91885534	-4.2052615	UFD1	p-value < 0.05
0.30119574	1.03588824	2.04146182	0.04911727	0.91885534	-4.2123561	ISM1	p-value < 0.05
-0.746181	-0.1546294	-2.0409198	0.04917408	0.91885534	-4.2126197	ZNF75D	p-value < 0.05
0.42125696	0.14433824	2.0388102	0.04939575	0.91885534	-4.2136453	MXRA8	p-value < 0.05
-0.6238332	-0.0859176	-2.0371179	0.04957421	0.91885534	-4.2144676	KLB	p-value < 0.05

eTable 22 is provided in a separated CSV file.

eTable 23: Mann-Whitney U Test results of CyTOF cluster abundances: non-ON vs ON

	Significance	P value	Mean rank of non-ON	Mean rank of ON	Mean rank diff.	Mann-Whitney U
T1	Yes	0.043376	14.89	9.154	5.735	28
T2	No	0.694769	10.78	12	-1.222	52
T3	No	0.431036	12.89	10.54	2.35	46
T4	No	0.64697	10.67	12.08	-1.41	51
T5	No	0.431036	12.89	10.54	2.35	46
T6	Yes	0.001934	6.556	14.92	-8.368	14
T7	No	0.292051	9.667	12.77	-3.103	42
T8	Yes	0.000772	6.222	15.15	-8.932	11
T9	No	0.164127	9.111	13.15	-4.043	37
T10	No	0.323734	9.778	12.69	-2.915	43
T11	No	0.555587	10.44	12.23	-1.786	49
T12	No	0.323734	9.778	12.69	-2.915	43

eTable 24: Differentially abundant clusters between MOGAD patients with and without ON

Group	SampleID	Frequency (%)		
		T1	T6	T8
ON	MOGAD 1	54,25	13,04	1,35
	MOGAD 2	40,93	5,69	2,14
	MOGAD 3	53,28	9,79	1,63
	MOGAD 4	50,56	0,5	0,5
	MOGAD 5	54,45	0,56	0,78
	MOGAD 8	67,43	1,27	1,31
	MOGAD 11	53,49	4,44	0,69
	MOGAD 14	47,12	5,76	0,98
	MOGAD 15	50,57	5,73	0,63
	MOGAD 16	62,55	5,74	1,63
	MOGAD 18	42,45	1,26	0,62
	MOGAD 20	68,06	4,01	1,17
	MOGAD 21	46,09	2,18	2,66
non ON	MOGAD 6	71,02	0,25	0,46
	MOGAD 7	52,42	1,09	0,16
	MOGAD 9	55,87	0,96	0,59
	MOGAD 10	43,65	0,72	0,13
	MOGAD 12	73,93	0,98	0,12
	MOGAD 13	54,29	2,01	1,45
	MOGAD 17	74,49	0,25	0,25
	MOGAD 19	70,54	0,33	0,41
	MOGAD 22	60,18	1,16	0,55

eTable 25 is provided in a separated CSV file.