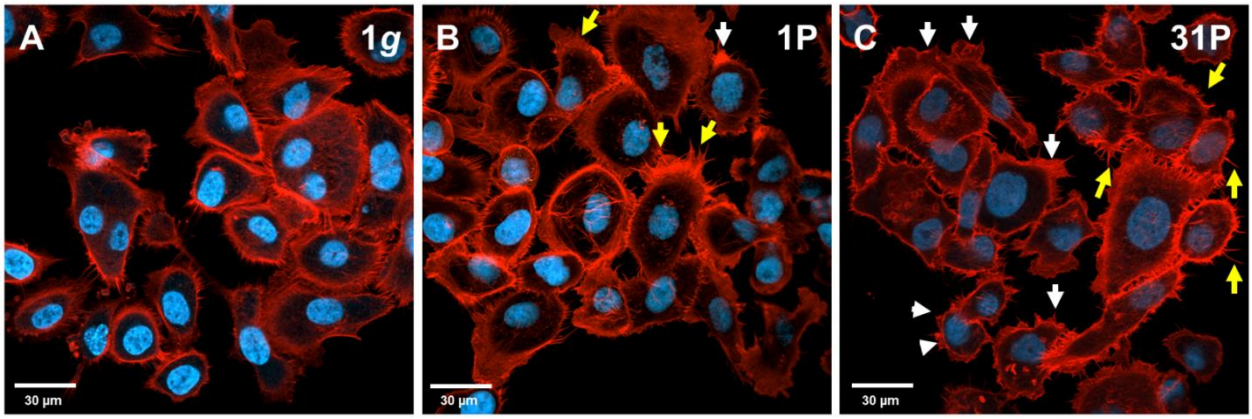
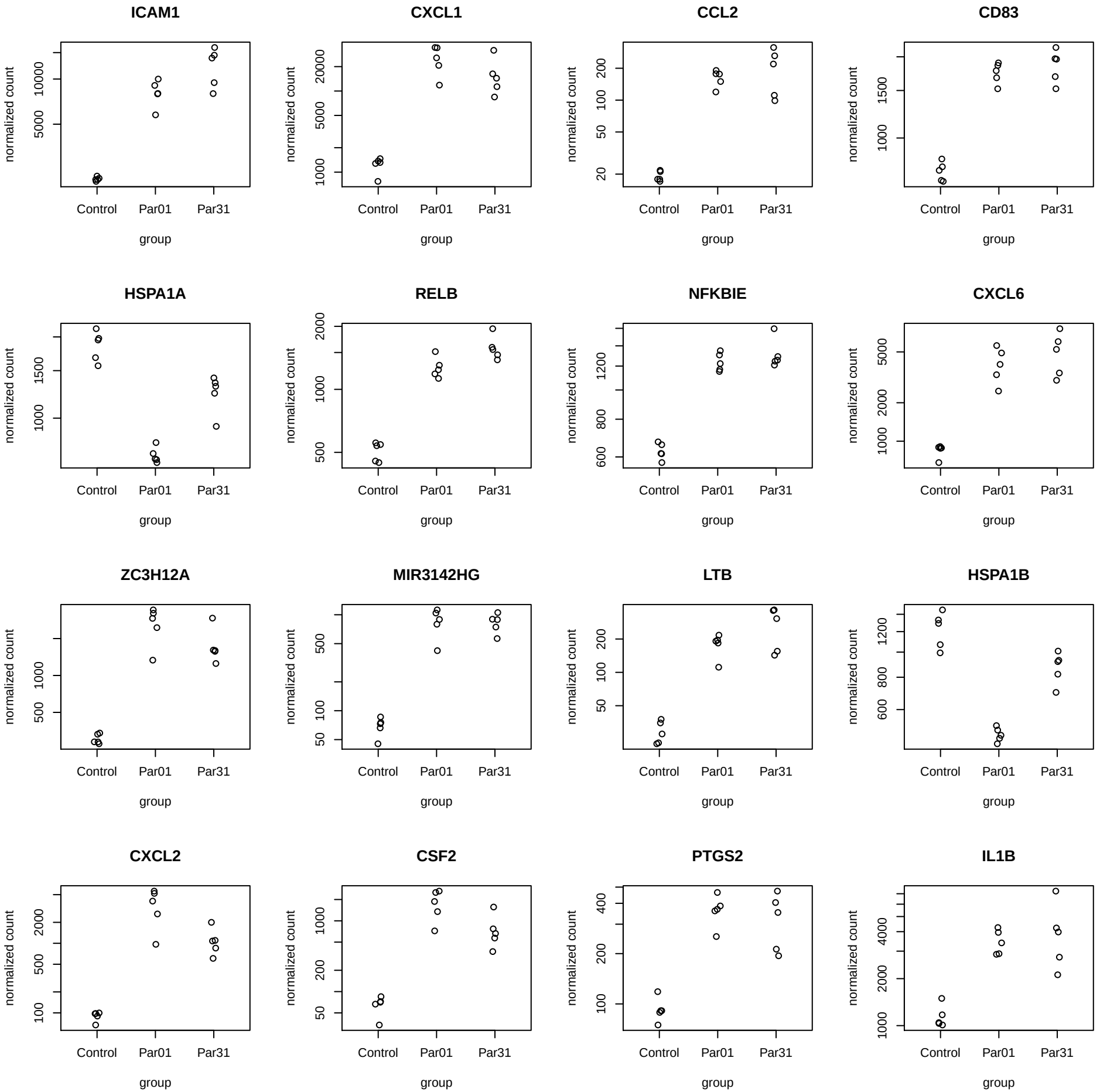
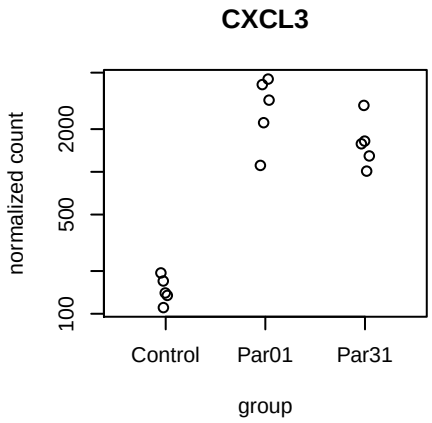
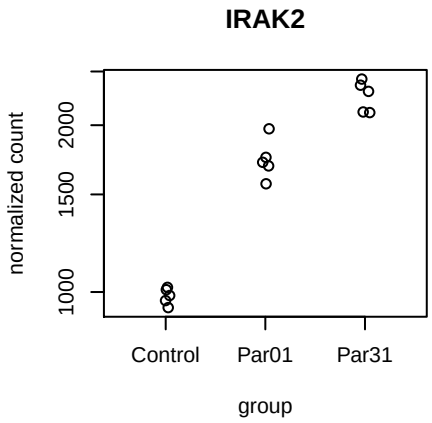
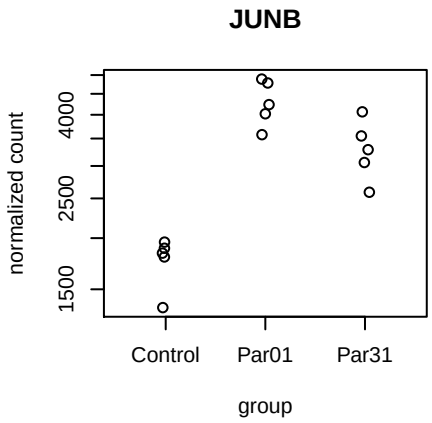


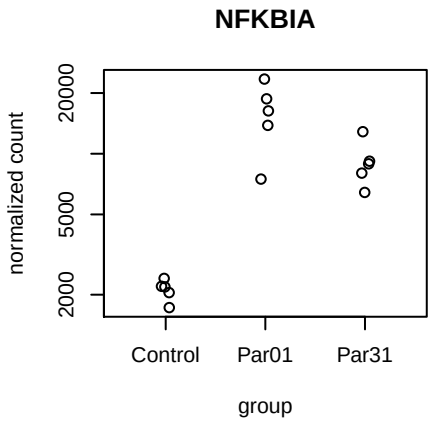
Figure S1: Impact of altered gravity on intracellular organization of F-actin: *Confocal laser scanning microscopy of TRITC-conjugated phalloidin stained (F-actin) samples.* ***A-C:*** *PC-3 cells cultivated under altered gravity conditions.* ***A:*** *Static 1g ground control.* ***B:*** *After the first parabola (1P).* ***C:*** *After the 31st parabola (31P). The white arrows show psudopoida and lamellipodia and yellow arrows indicate stress fibers. Scale bars represent 30 µm.*


ICAM1
CXCL1
CCL2
CD83
HSPA1A
RELB
NFKBIE
CXCL6
ZC3H12A
MIR3142HG
LTB
HSPA1B
CXCL2
CSF2
PTGS2
IL1B
normalized count
group
Control
Par01
Par31


CXCL3
normalized count
100
500
2000
Control
Par01
Par31
group


IRAK2
normalized count
1000
1500
2000
Control
Par01
Par31
group


JUNB
normalized count
1500
2500
4000
Control
Par01
Par31
group


NFKBIA
normalized count
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20000
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Par01
Par31
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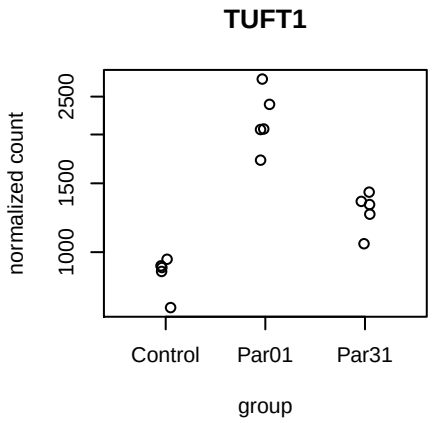
TUFT1
normalized count
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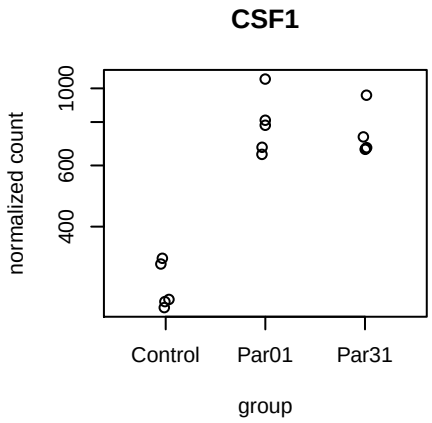
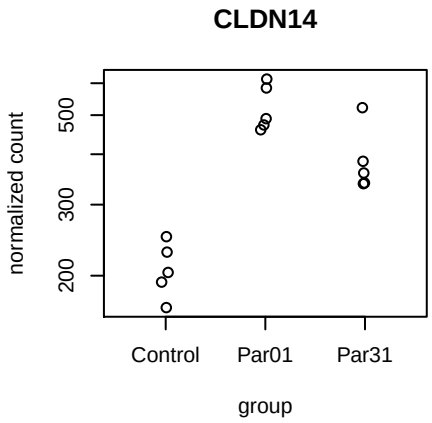
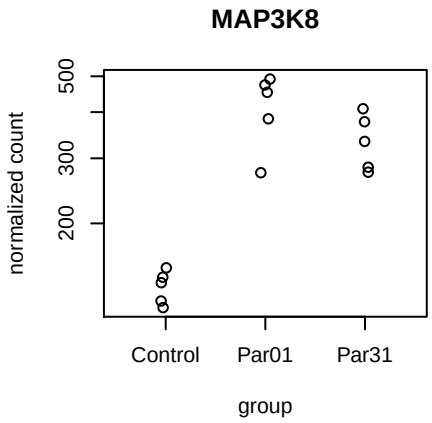
1500
2500
Control
Par01
Par31
group


CSF1
normalized count
400
600
1000
Control
Par01
Par31
group


CLDN14
normalized count
200
300
500
Control
Par01
Par31
group


MAP3K8
normalized count
200
300
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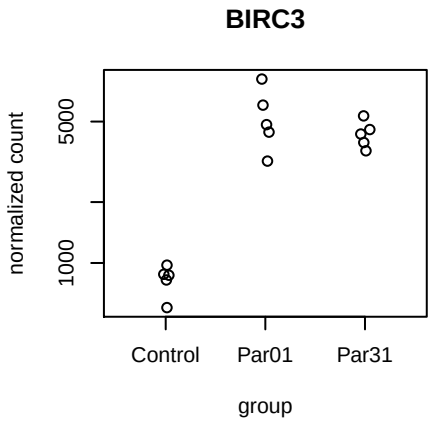
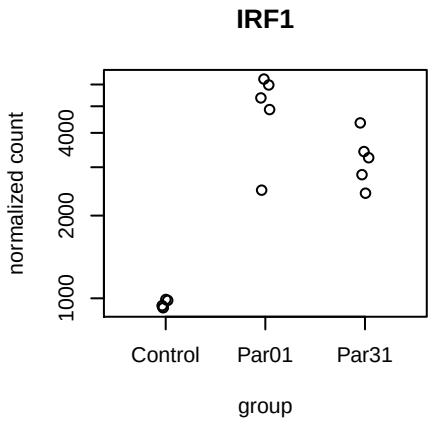
Control
Par01
Par31
group


BIRC3
normalized count
1000
5000
Control
Par01
Par31
group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normalized count
1000
2000
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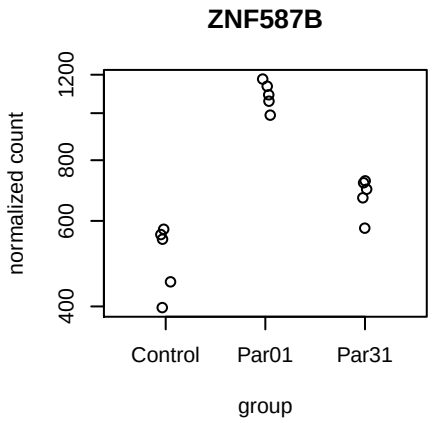
Control
Par01
Par31
group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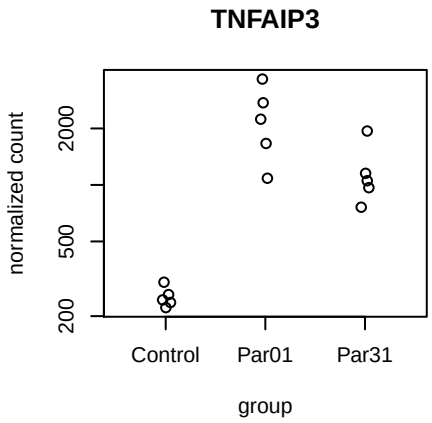
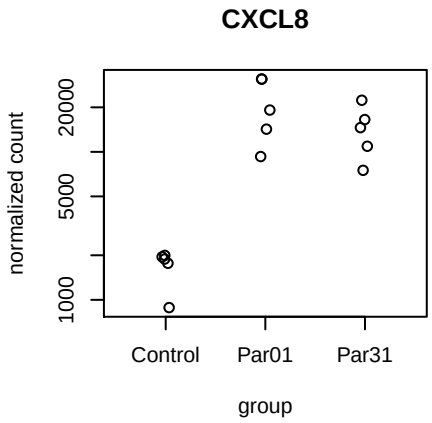
1200
Control
Par01
Par31
group


TNFAIP3
normalized count
200
500
2000
Control
Par01
Par31
group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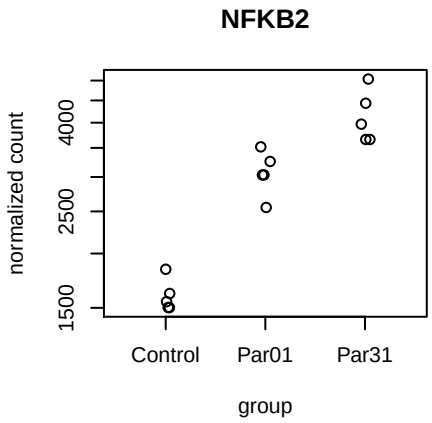
5000
20000
Control
Par01
Par31
group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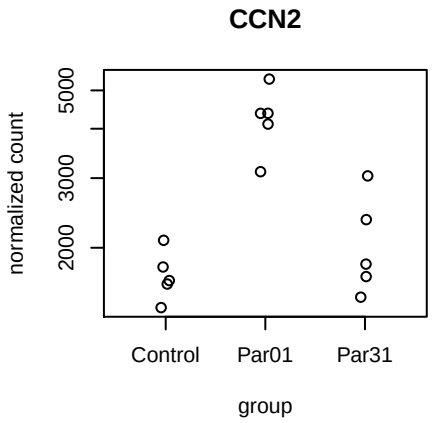
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Par31
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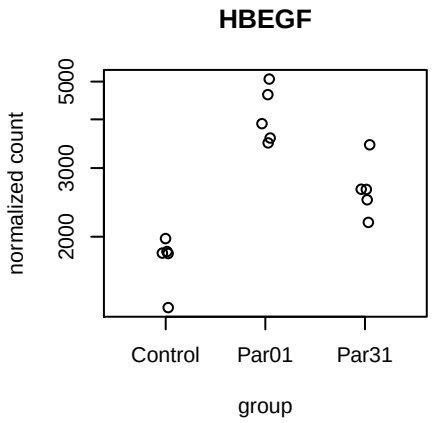
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Par01
Par31
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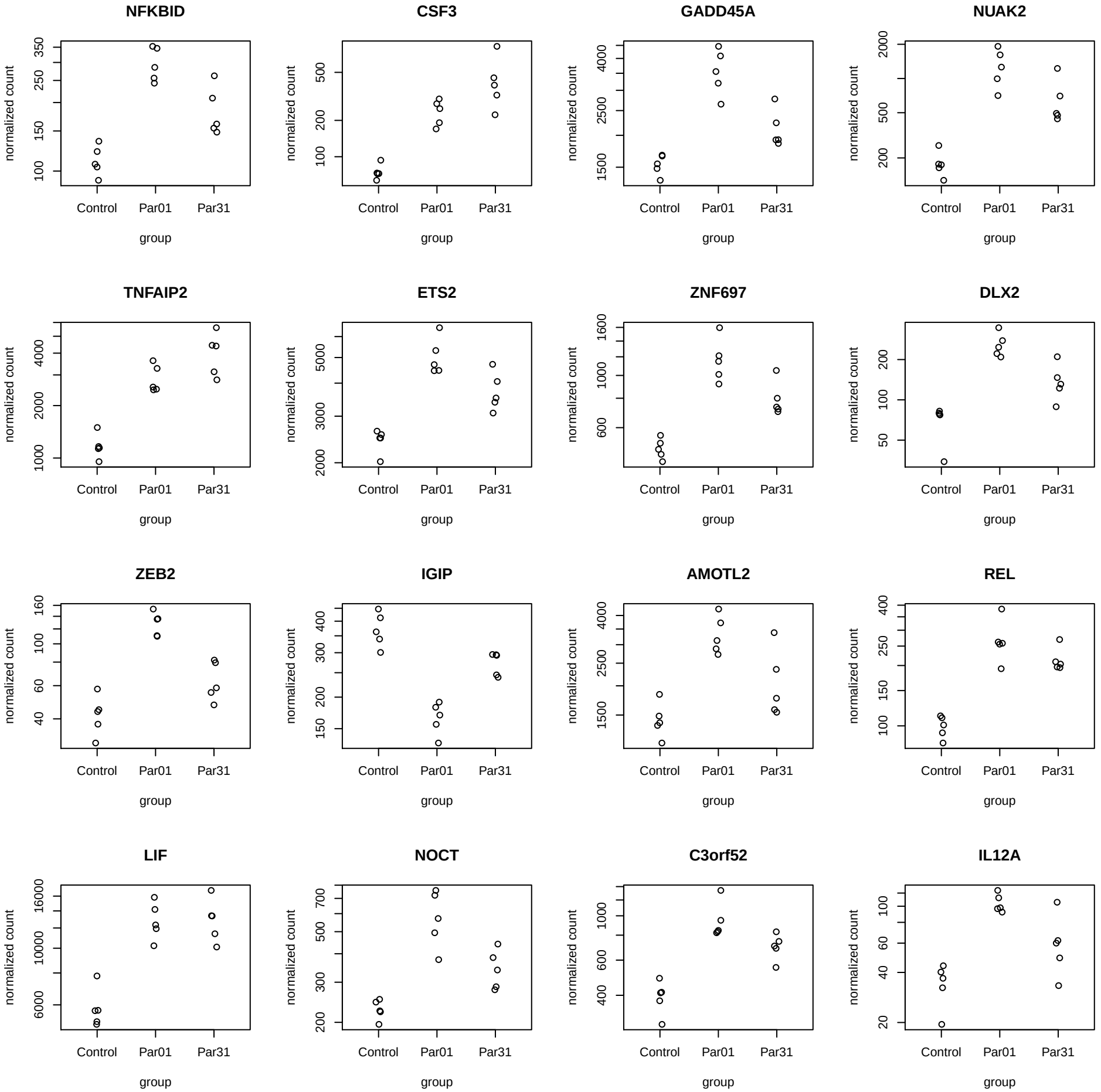
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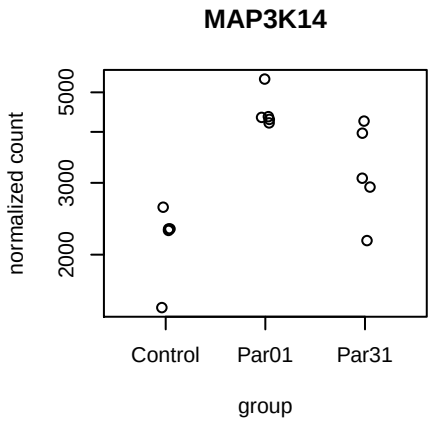
CSF3
GADD45A
NUAK2
TNFAIP2
ETS2
ZNF697
DLX2
ZEB2
IGIP
AMOTL2
REL
LIF
NOCT
C3orf52
IL12A
normalized count
group
Control
Par01
Par31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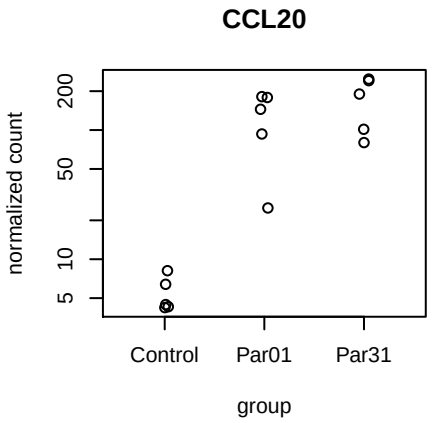
Control
Par01
Par31
group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Control
Par01
Par31
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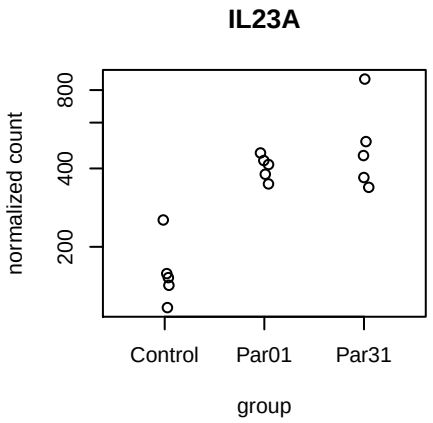
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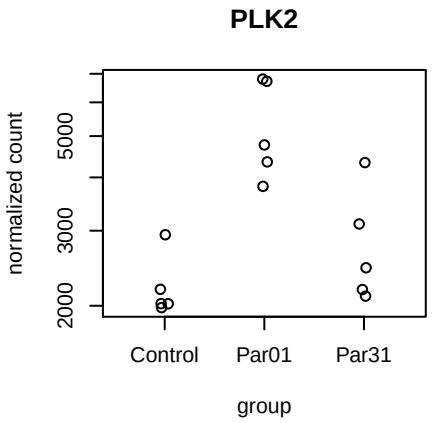
200
400
800
Control
Par01
Par31
group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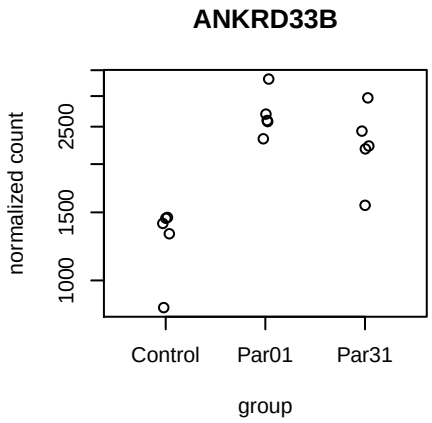
Control
Par01
Par31
group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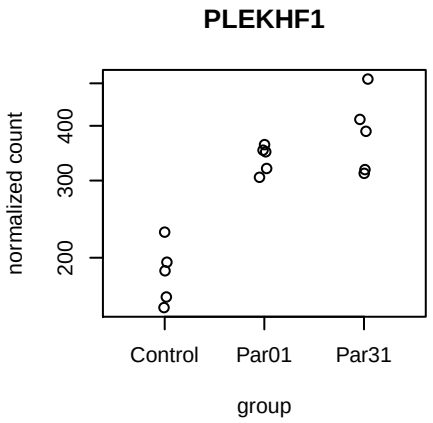
Control
Par01
Par31
group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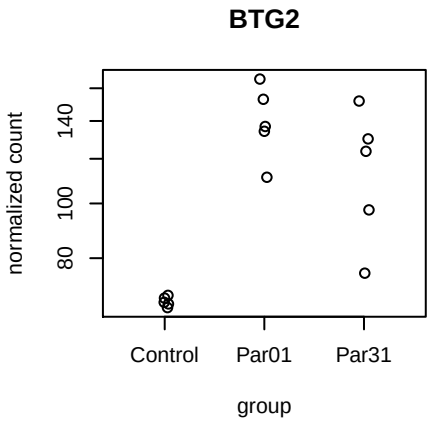
300
400
Control
Par01
Par31
group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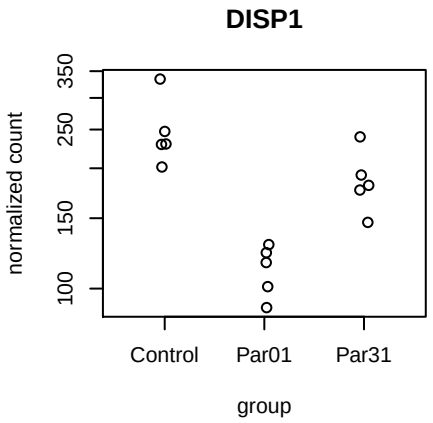
Par31
group


DISP1
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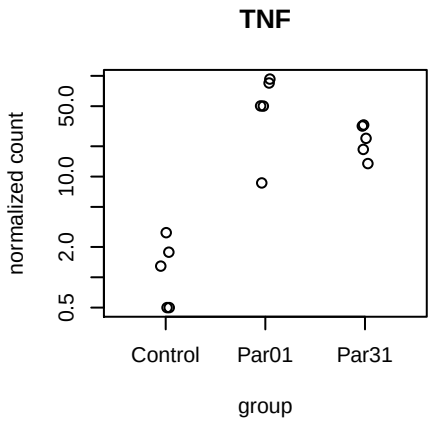
150
250
350
Control
Par01
Par31
group


TNF
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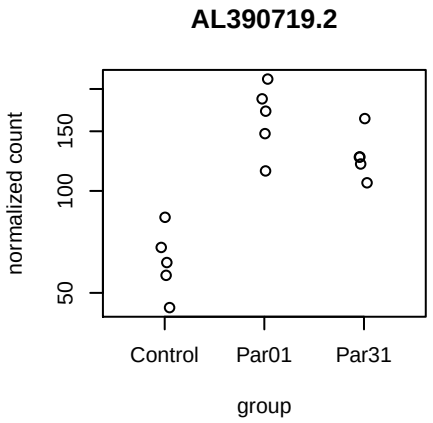
2.0
10.0
50.0
Control
Par01
Par31
group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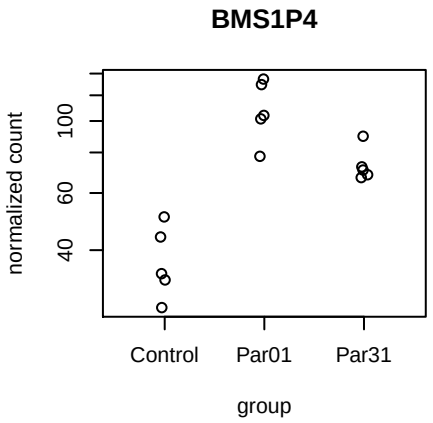
Control
Par01
Par31
group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normalized count
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100
Control
Par01
Par31
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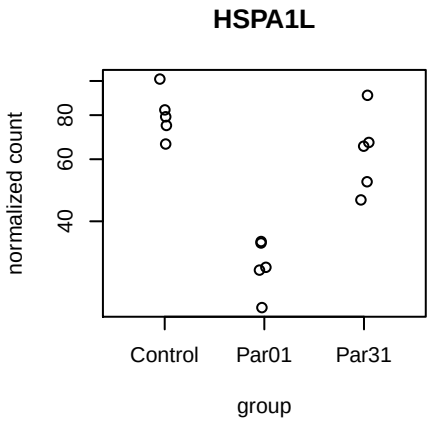
HSPA1L
normalized count
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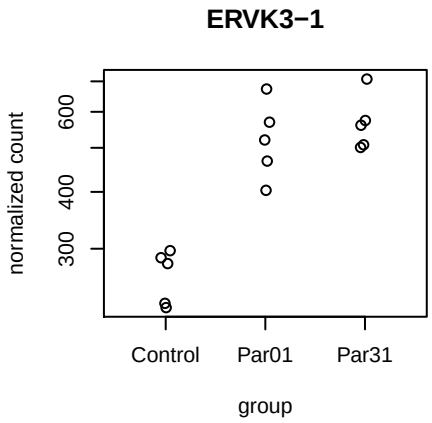
60
80
Control
Par01
Par31
group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normalized count
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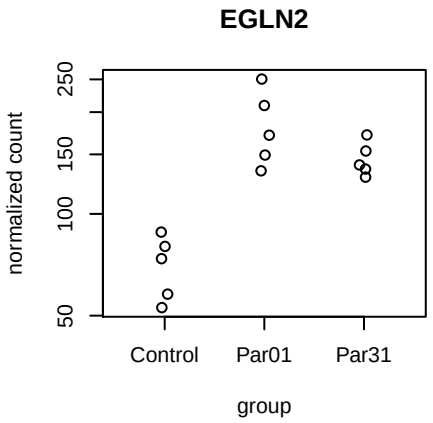
400
600
Control
Par01
Par31
group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Par01
Par31
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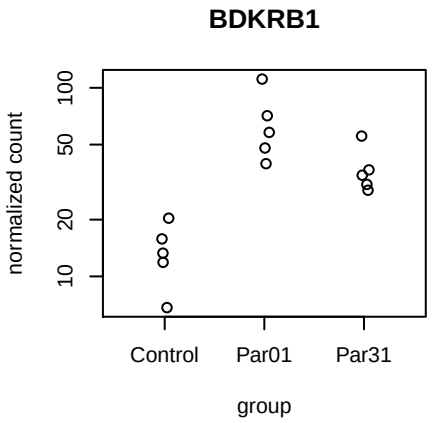
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20
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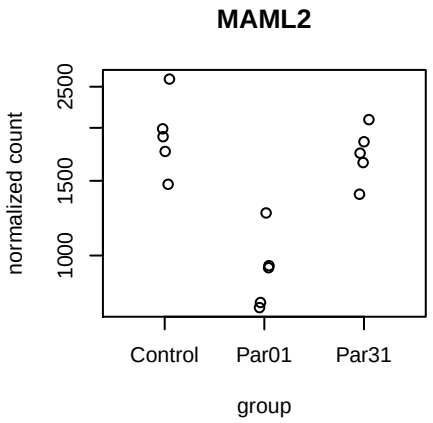
100
Control
Par01
Par31
group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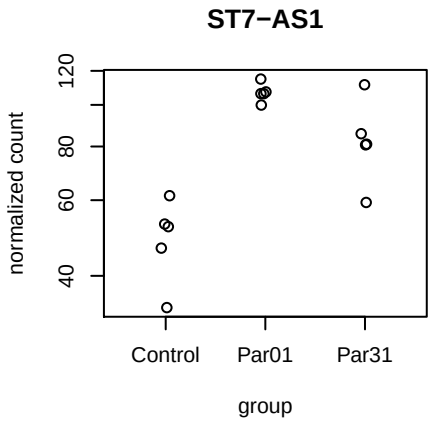
Control
Par01
Par31
group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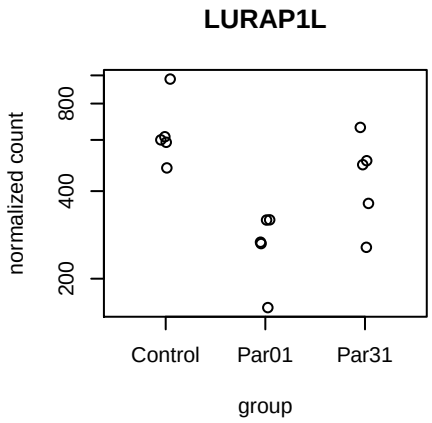
Control
Par01
Par31
group


LURAP1L
normalized count
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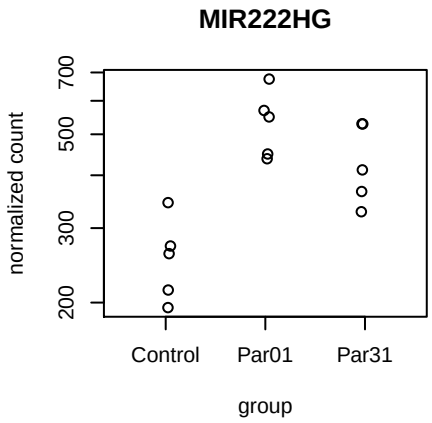
Control
Par01
Par31
group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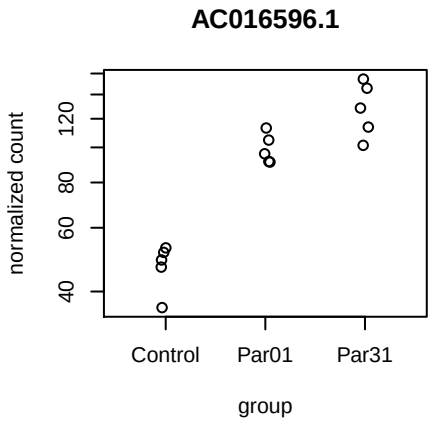
300
500
700
Control
Par01
Par31
group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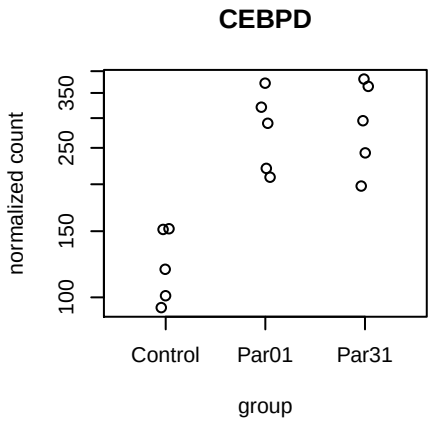
Control
Par01
Par31
group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Control
Par01
Par31
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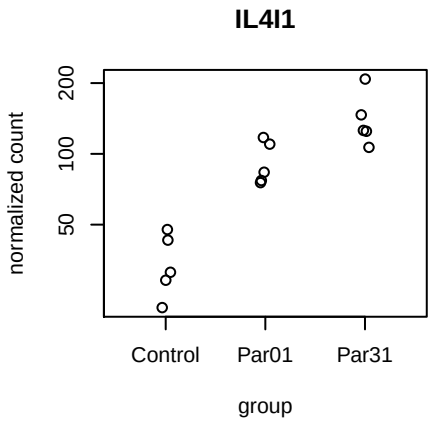
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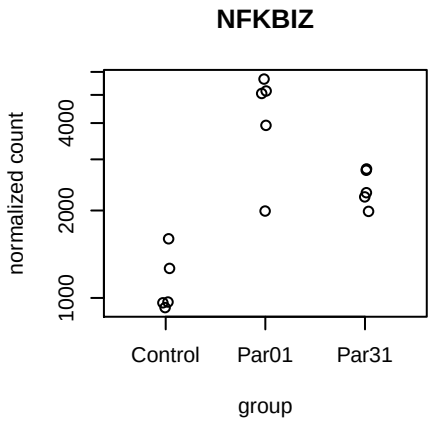
200
Control
Par01
Par31
group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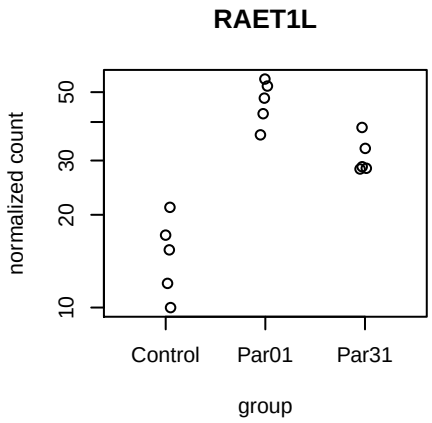
4000
Control
Par01
Par31
group


RAET1L
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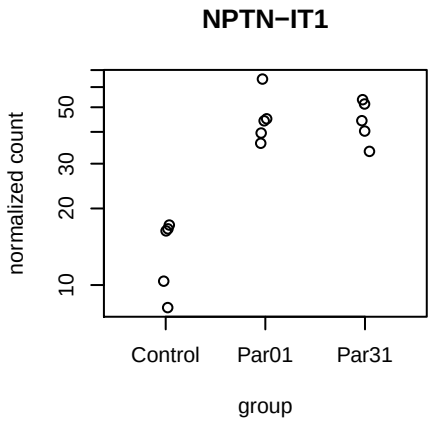
Control
Par01
Par31
group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normalized count
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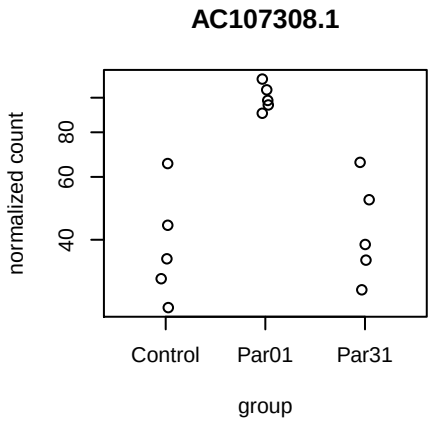
20
30
50
Control
Par01
Par31
group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Par01
Par31
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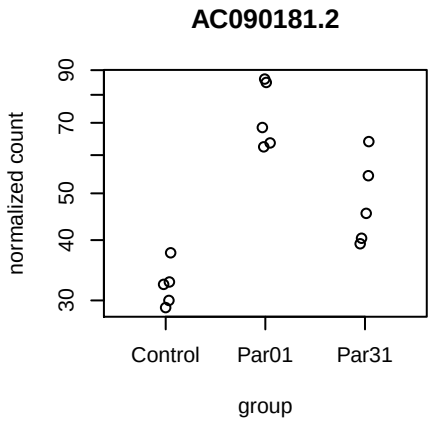
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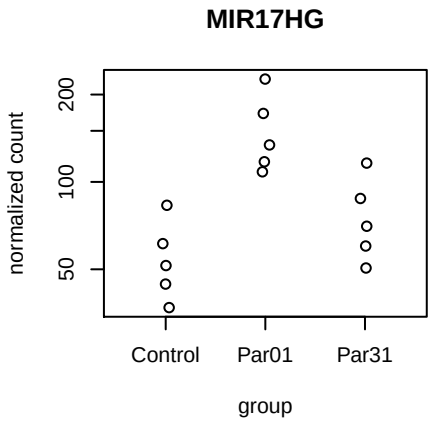
90
Control
Par01
Par31
group


MIR17HG
normalized count
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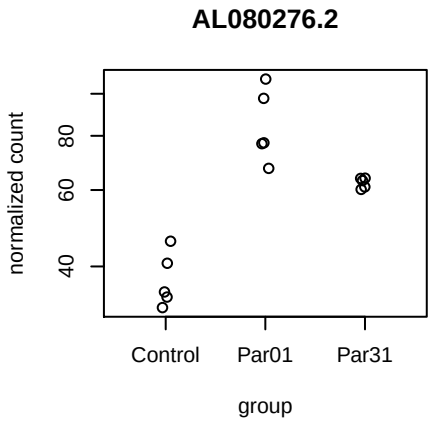
100
200
Control
Par01
Par31
group


AL080276.2
normalized count
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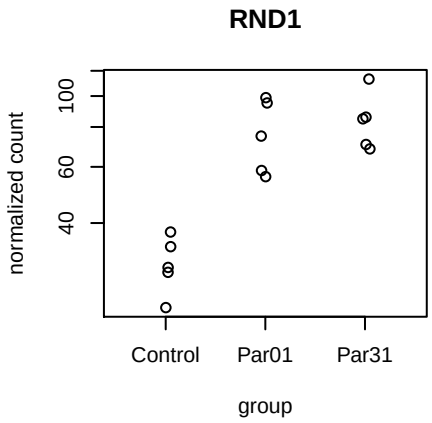
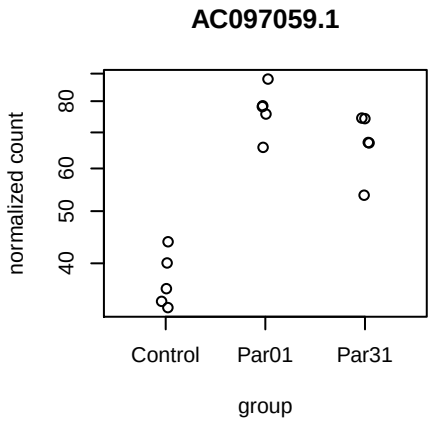
60
80
Control
Par01
Par31
group


RND1
normalized count
40
60
100
Control
Par01
Par31
group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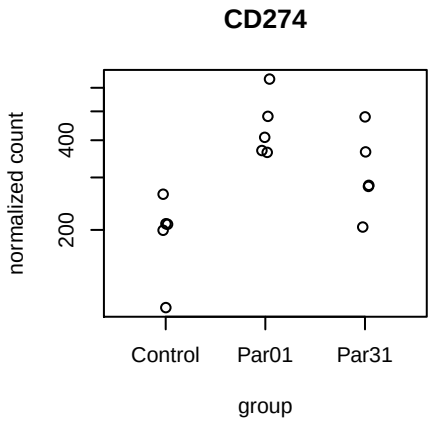
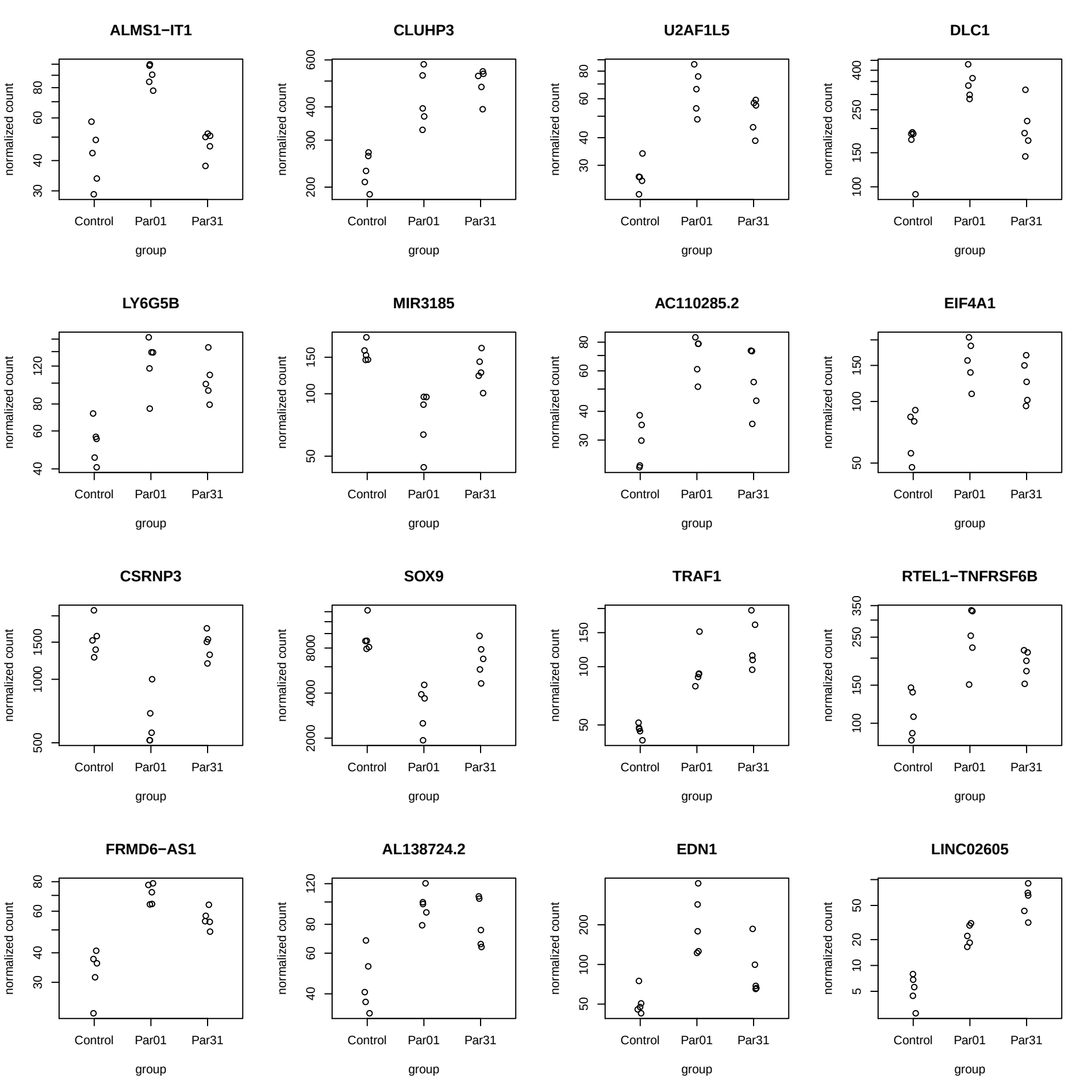
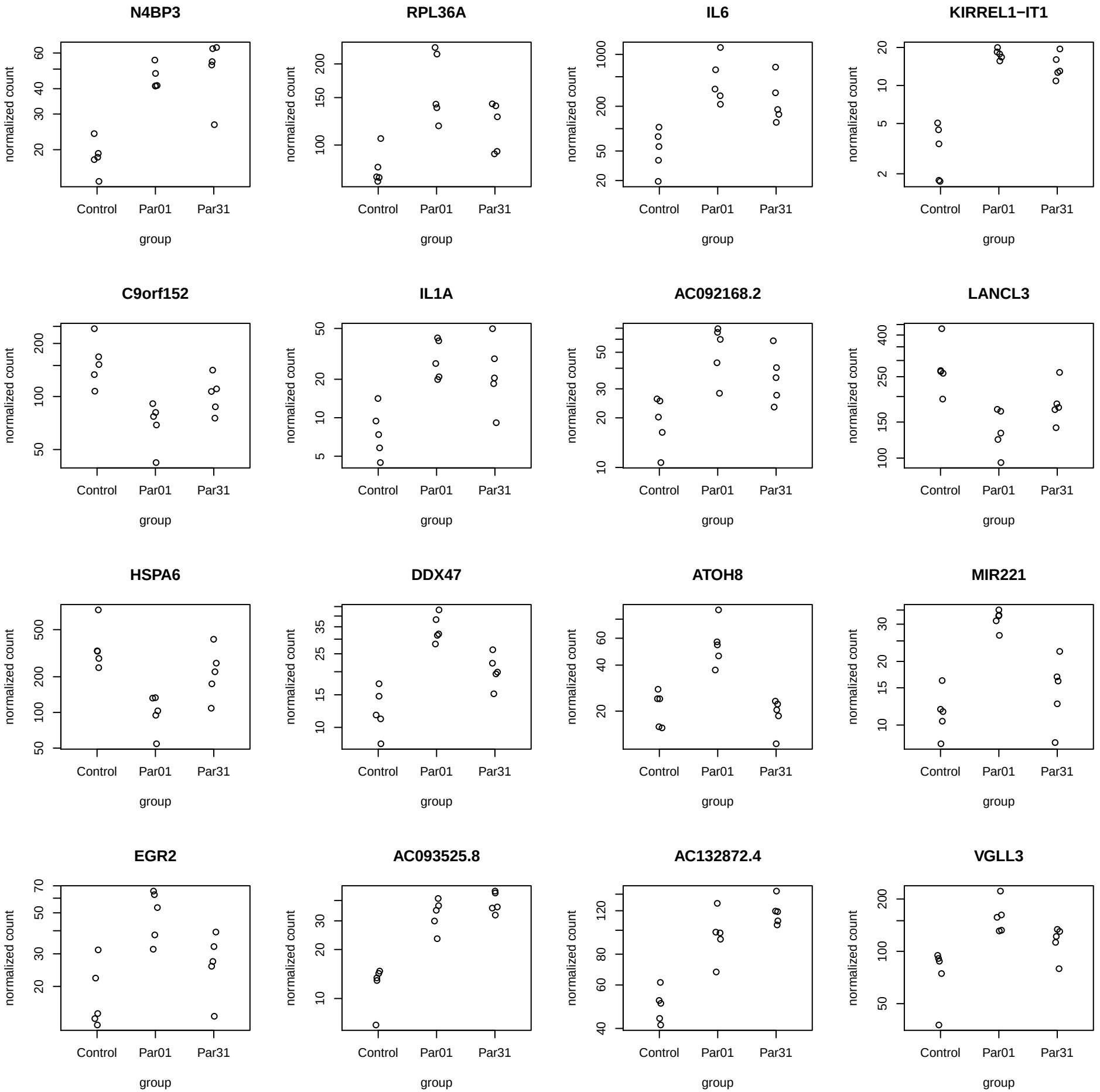
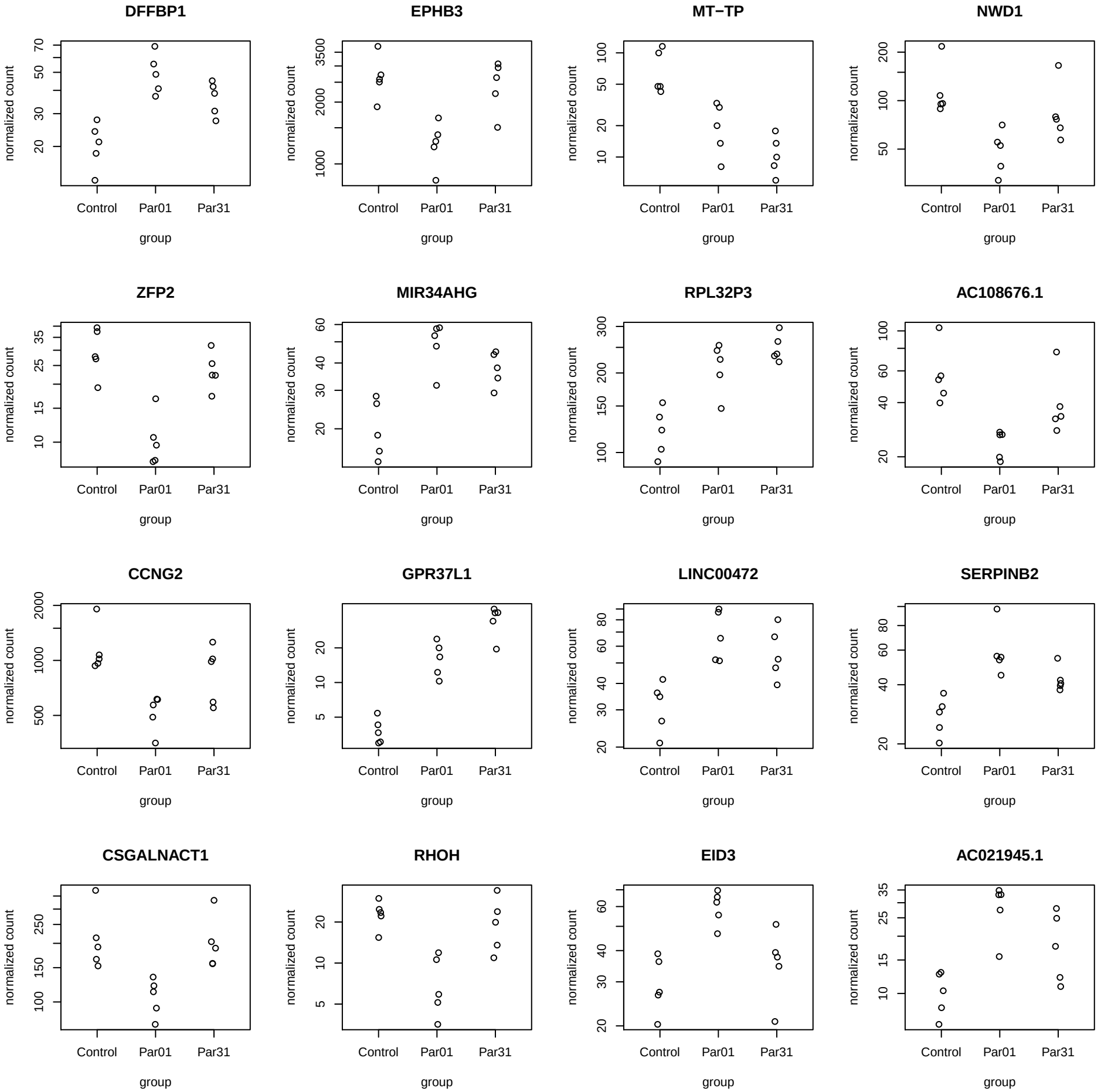
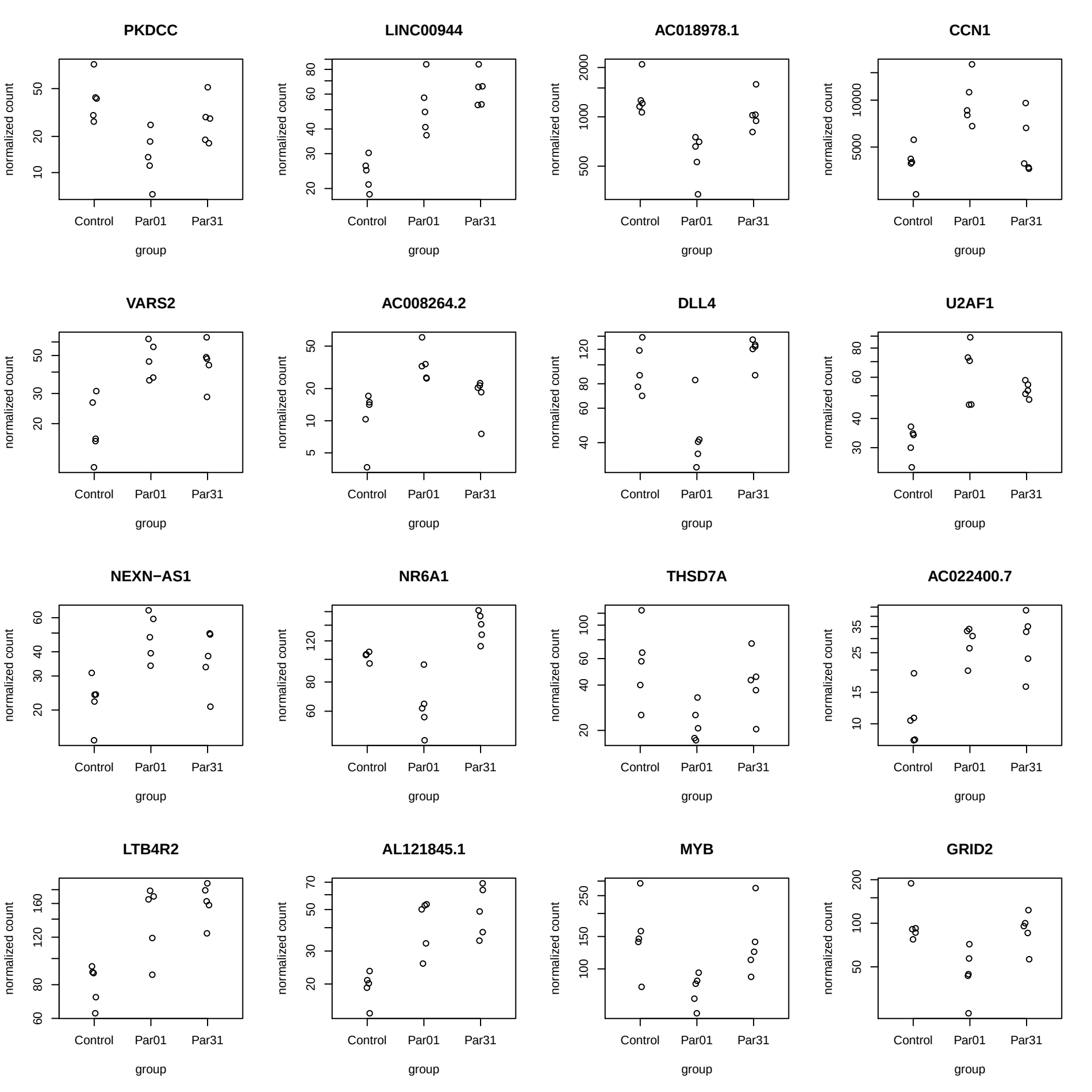
normalized count
40
50
60
80
Control
Par01
Par31
group

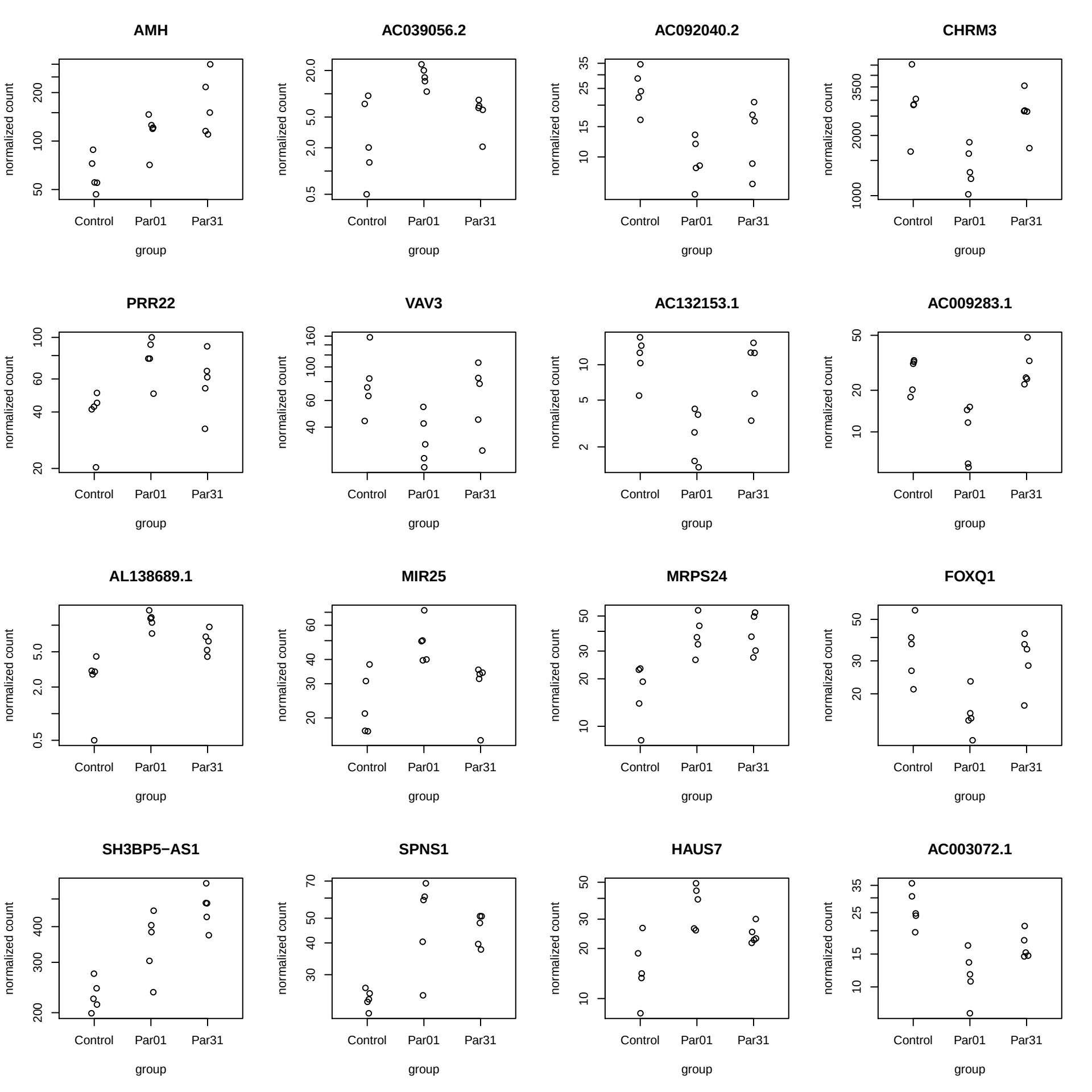

CD274
normalized count
200
400
Control
Par01
Par31
group

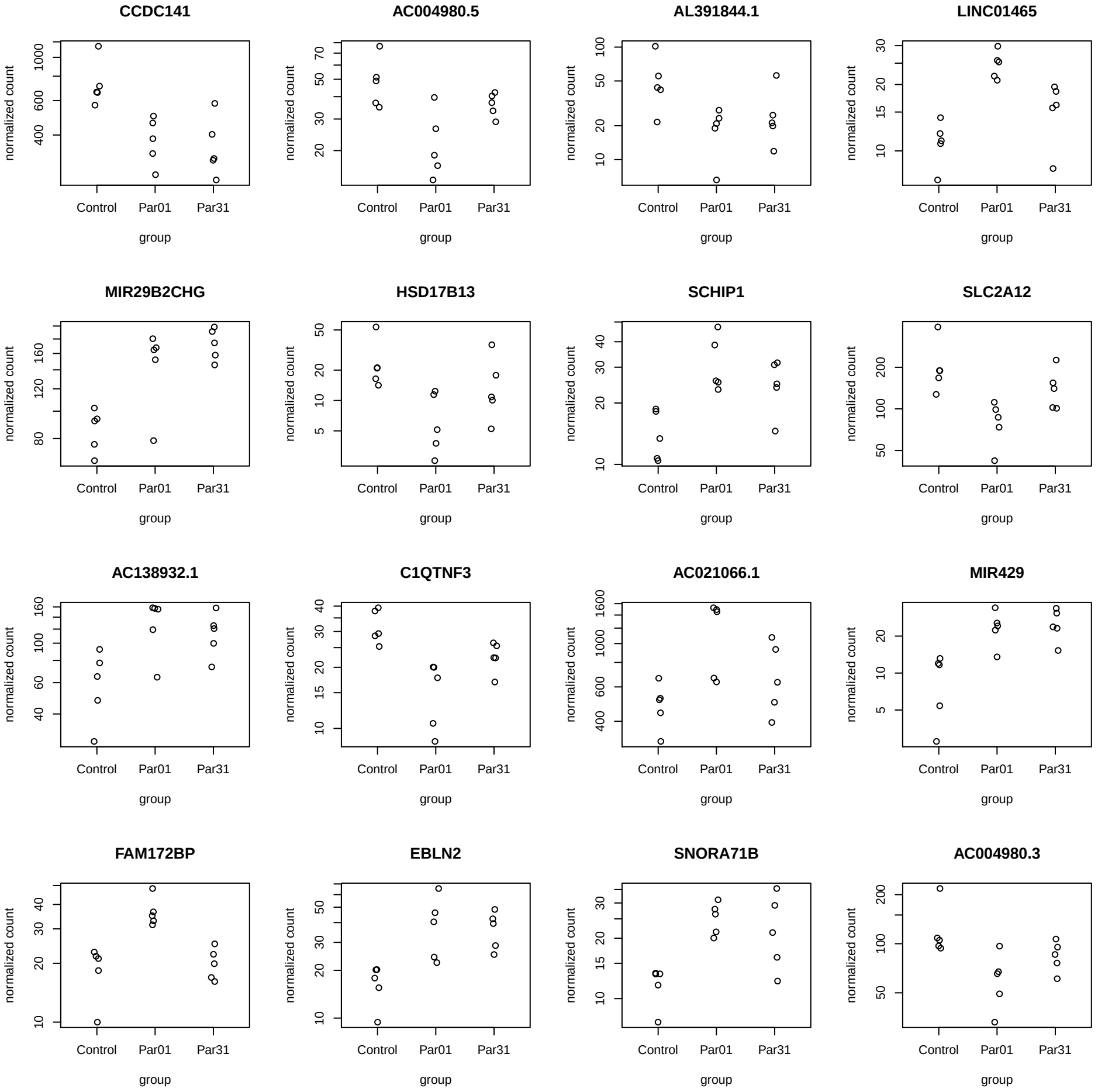

ALMS1−IT1
CLUHP3
U2AF1L5
DLC1
LY6G5B
MIR3185
AC110285.2
EIF4A1
CSRNP3
SOX9
TRAF1
RTEL1−TNFRSF6B
FRMD6−AS1
AL138724.2
EDN1
LINC02605
normalized count
group
Control
Par01
Par31


N4BP3
RPL36A
IL6
KIRREL1−IT1
C9orf152
IL1A
AC092168.2
LANCL3
HSPA6
DDX47
ATOH8
MIR221
EGR2
AC093525.8
AC132872.4
VGLL3
normalized count
Control
Par01
Par31
group


DFFBP1
EPHB3
MT−TP
NWD1
ZFP2
MIR34AHG
RPL32P3
AC108676.1
CCNG2
GPR37L1
LINC00472
SERPINB2
CSGALNACT1
RHOH
EID3
AC021945.1
normalized count
group
Control
Par01
Par31


PKDCC
LINC00944
AC018978.1
CCN1
VARS2
AC008264.2
DLL4
U2AF1
NEXN−AS1
NR6A1
THSD7A
AC022400.7
LTB4R2
AL121845.1
MYB
GRID2
normalized count
Control
Par01
Par31
group


AMH
AC039056.2
AC092040.2
CHRM3
PRR22
VAV3
AC132153.1
AC009283.1
AL138689.1
MIR25
MRPS24
FOXQ1
SH3BP5−AS1
SPNS1
HAUS7
AC003072.1
normalized count
group
Control
Par01
Par31


CCDC141
AC004980.5
AL391844.1
LINC01465
MIR29B2CHG
HSD17B13
SCHIP1
SLC2A12
AC138932.1
C1QTNF3
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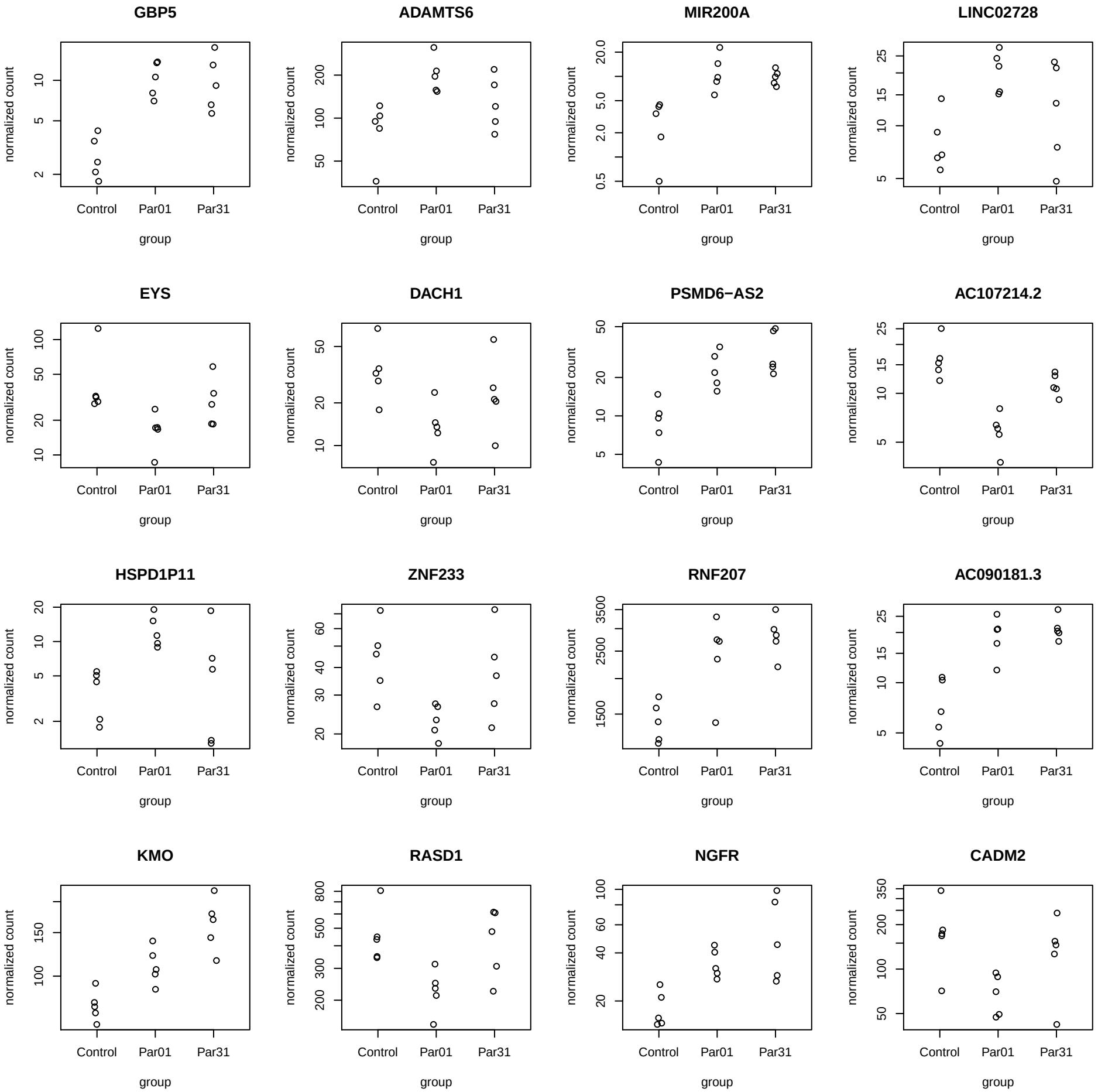
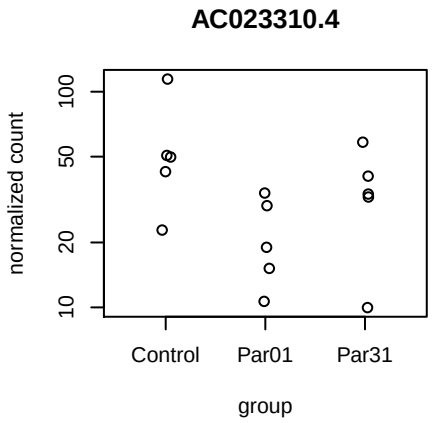
MIR429
FAM172BP
EBLN2
SNORA71B
AC004980.3
normalized count
group
Control
Par01
Par31


GBP5
ADAMTS6
MIR200A
LINC02728
EYS
DACH1
PSMD6−AS2
AC107214.2
HSPD1P11
ZNF233
RNF207
AC090181.3
KMO
RASD1
NGFR
CADM2
normalized count
Control
Par01
Par31
group


AC023310.4
normalized count
10
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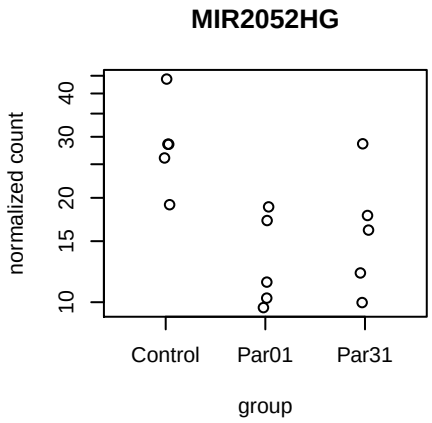
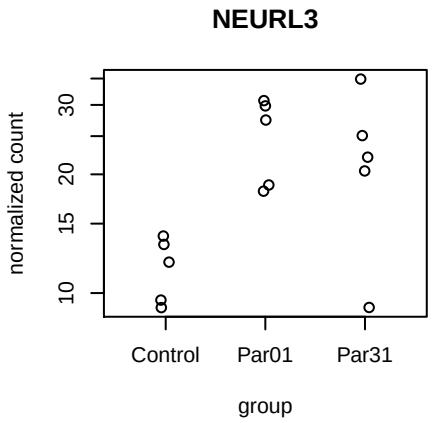
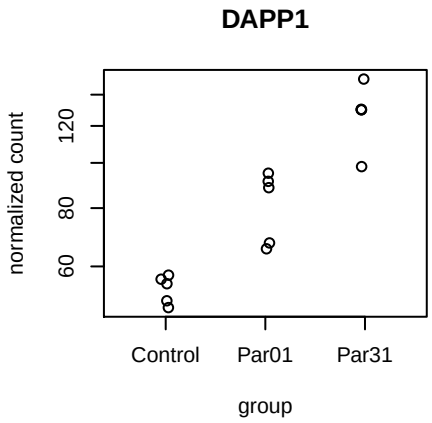
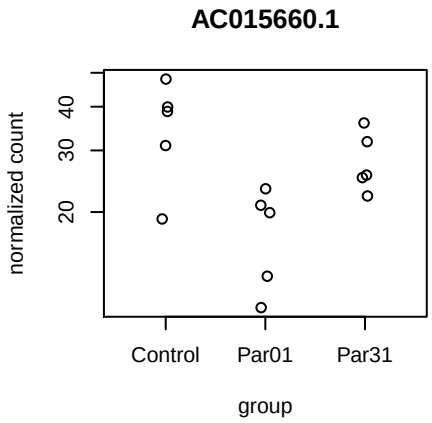
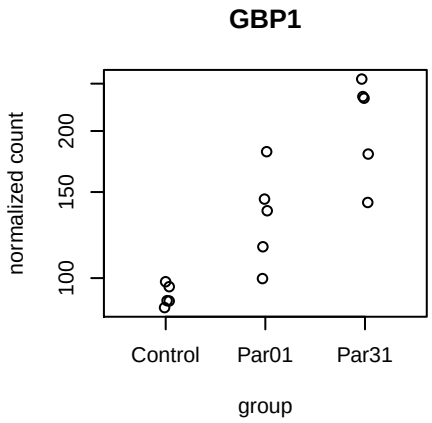
100
Control
Par01
Par31
group

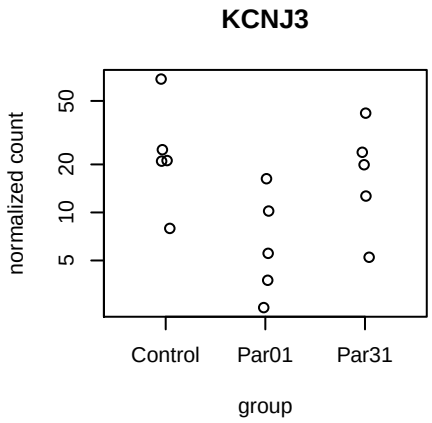

MIR2052HG
normalized count
10
15
20
30
40
Control
Par01
Par31
group


NEURL3
normalized count
10
15
20
30
Control
Par01
Par31
group


DAPP1
normalized count
60
80
120
Control
Par01
Par31
group


AC015660.1
normalized count
20
30
40
Control
Par01
Par31
group


GBP1
normalized count
100
150
200
Control
Par01
Par31
group


KCNJ3
normalized count
5
10
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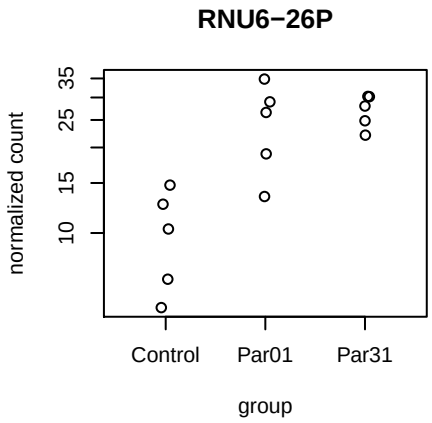
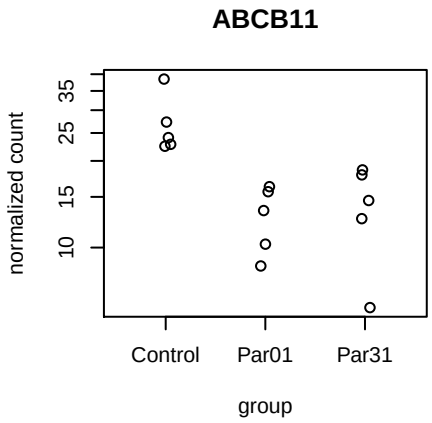
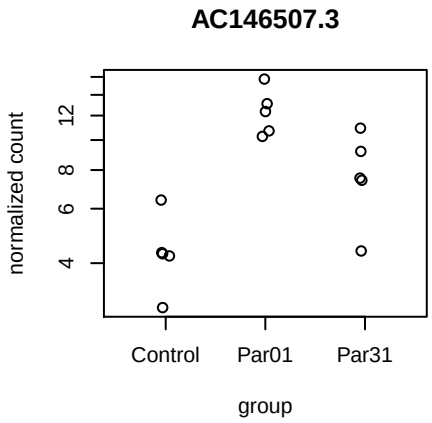
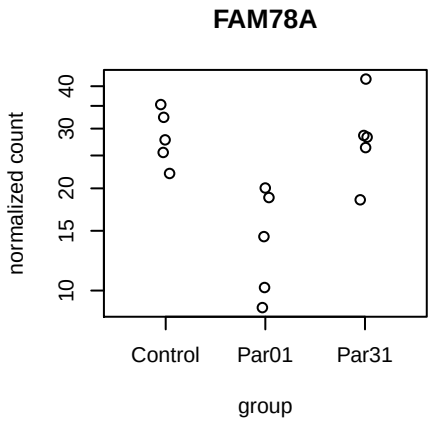
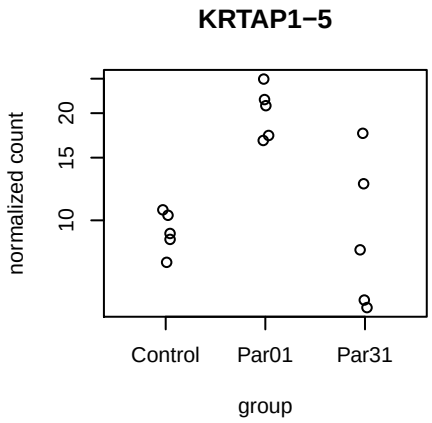
50
Control
Par01
Par31
group

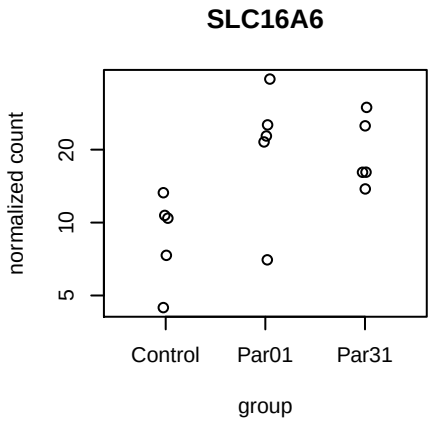

RNU6−26P
normalized count
10
15
25
35
Control
Par01
Par31
group


ABCB11
normalized count
10
15
25
35
Control
Par01
Par31
group


AC146507.3
normalized count
4
6
8
12
Control
Par01
Par31
group


FAM78A
normalized count
10
15
20
30
40
Control
Par01
Par31
group


KRTAP1−5
normalized count
10
15
20
Control
Par01
Par31
group


SLC16A6
normalized count
5
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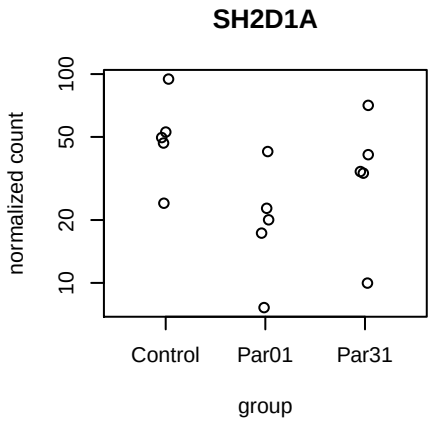
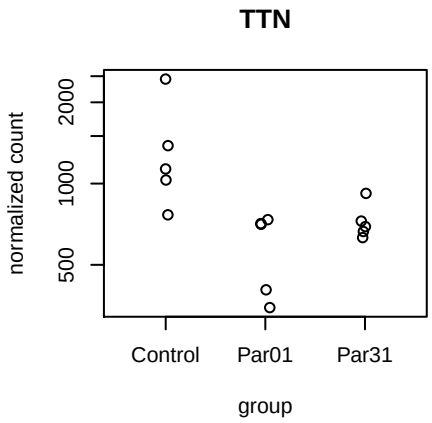
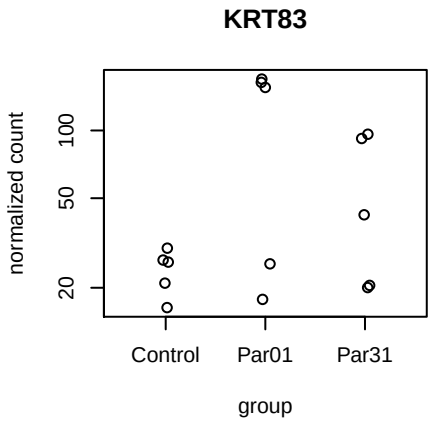
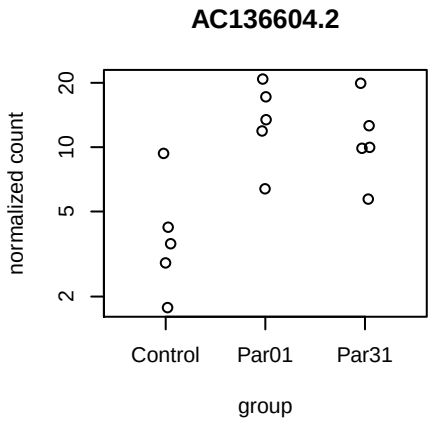
20
Control
Par01
Par31
group


SH2D1A
normalized count
10
20
50
100
Control
Par01
Par31
group


TTN
normalized count
500
1000
2000
Control
Par01
Par31
group


KRT83
normalized count
20
50
100
Control
Par01
Par31
group


AC136604.2
normalized count
2
5
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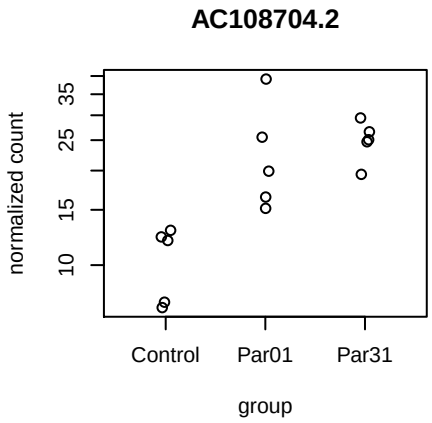
Control
Par01
Par31
group


AC108704.2
normalized count
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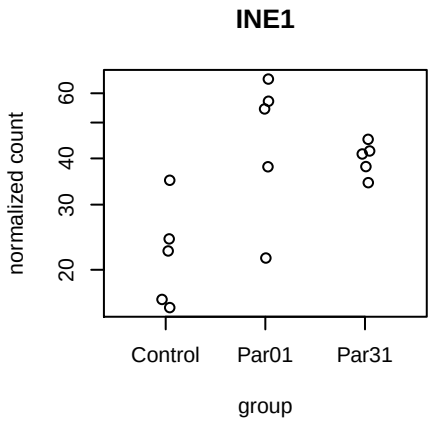
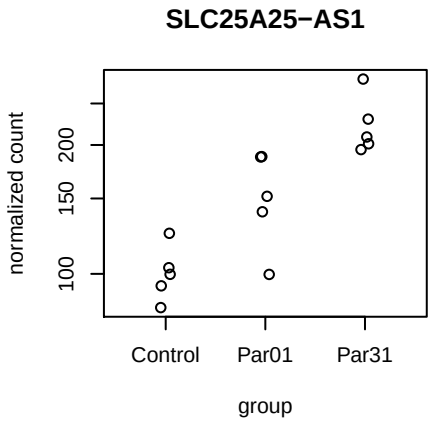
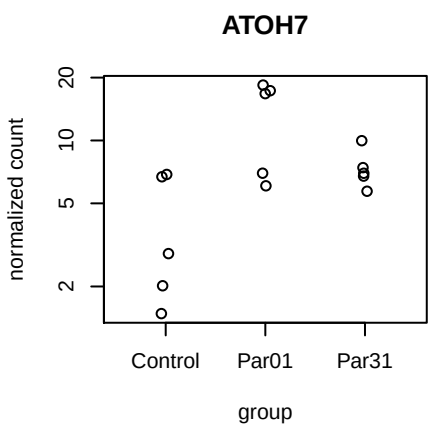
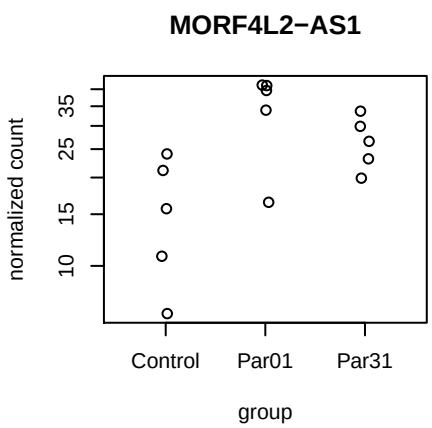
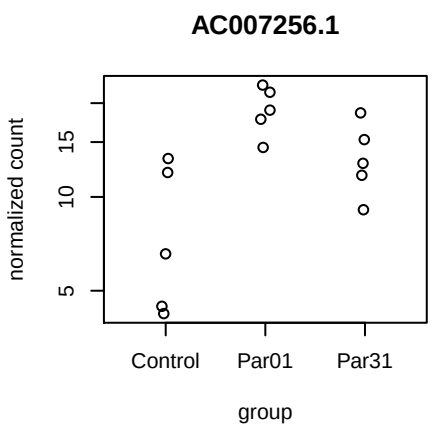
Control
Par01
Par31
group

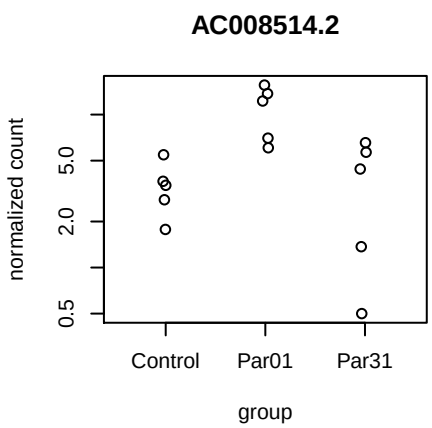

INE1
normalized count
20
30
40
60
Control
Par01
Par31
group

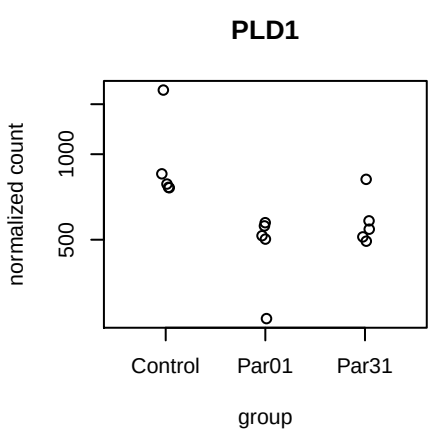

SLC25A25−AS1
normalized count
100
150
200
Control
Par01
Par31
group

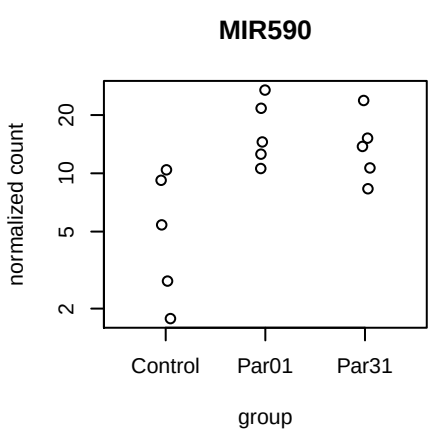

ATOH7
normalized count
2
5
10
20
Control
Par01
Par31
group

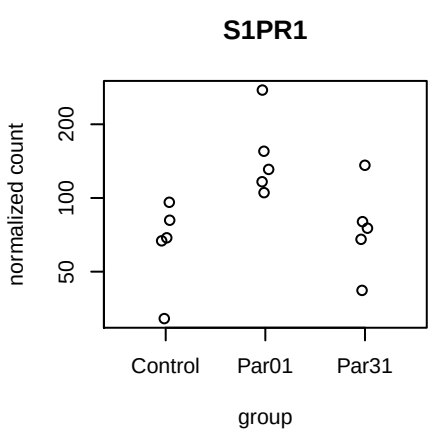

MORF4L2−AS1
normalized count
10
15
25
35
Control
Par01
Par31
group

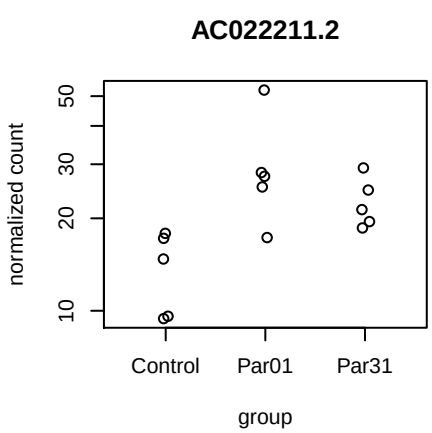

AC007256.1
normalized count
5
10
15
Control
Par01
Par31
group


AC008514.2
normalized count
0.5
2.0
5.0
Control
Par01
Par31
group


PLD1
normalized count
500
1000
Control
Par01
Par31
group


MIR590
normalized count
2
5
10
20
Control
Par01
Par31
group


S1PR1
normalized count
50
100
200
Control
Par01
Par31
group


AC022211.2
normalized count
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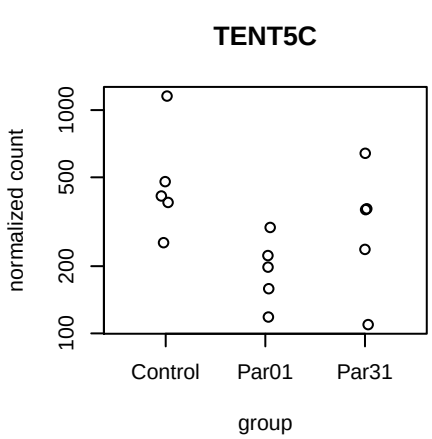
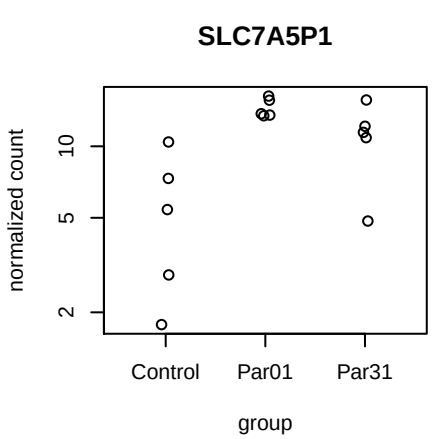
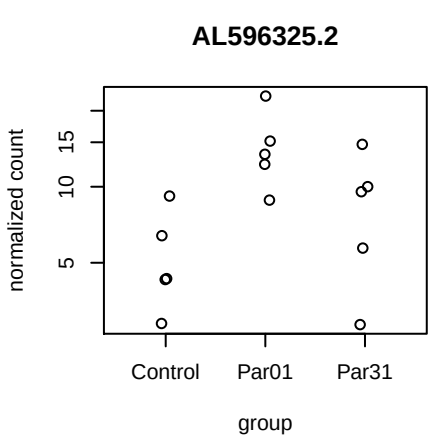
50
Control
Par01
Par31
group


TENT5C
normalized count
100
200
500
1000
Control
Par01
Par31
group


SLC7A5P1
normalized count
2
5
10
Control
Par01
Par31
group


AL596325.2
normalized count
5
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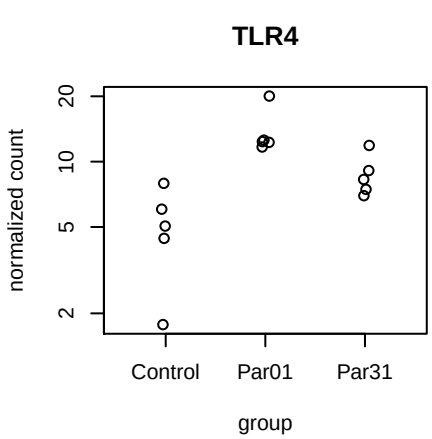
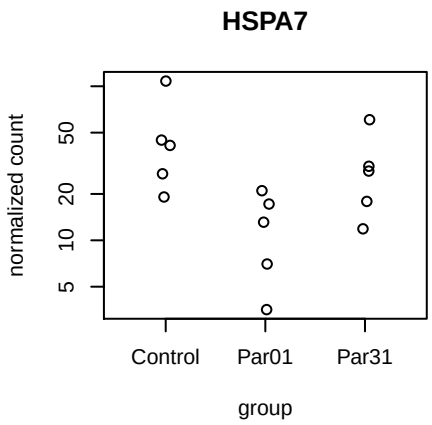
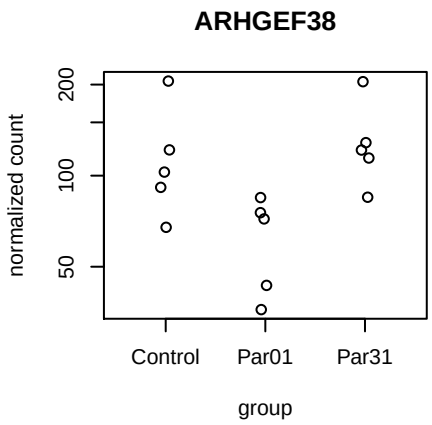
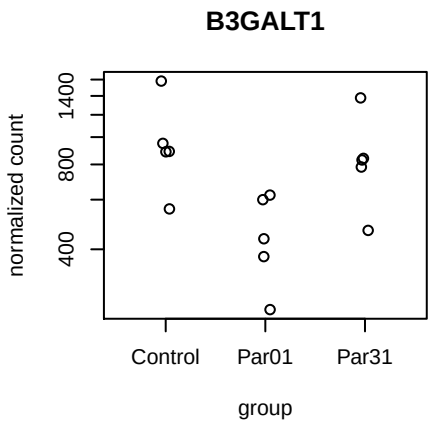
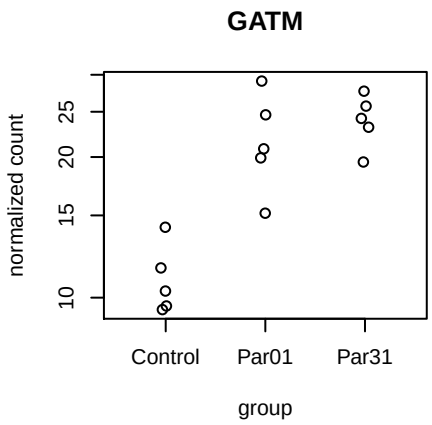
15
Control
Par01
Par31
group

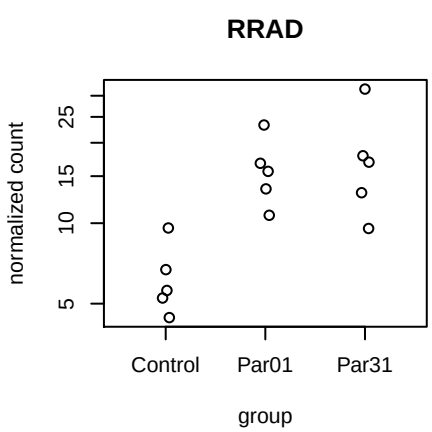

TLR4
normalized count
2
5
10
20
Control
Par01
Par31
group


HSPA7
normalized count
5
10
20
50
Control
Par01
Par31
group


ARHGEF38
normalized count
50
100
200
Control
Par01
Par31
group


B3GALT1
normalized count
400
800
1400
Control
Par01
Par31
group


GATM
normalized count
10
15
20
25
Control
Par01
Par31
group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Par31
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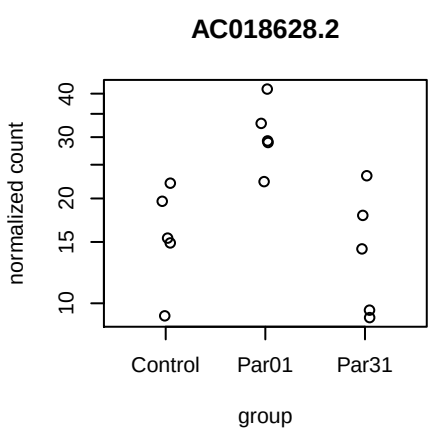
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Par31
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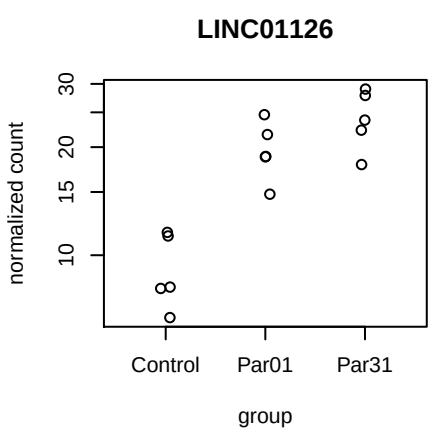
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Par31
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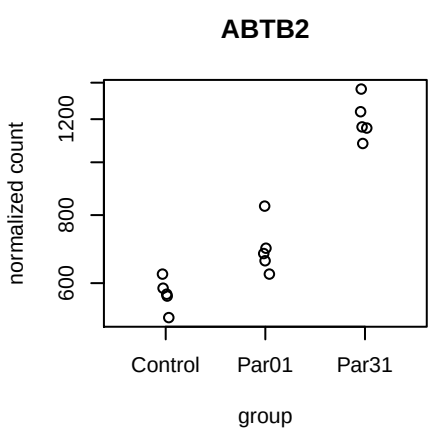
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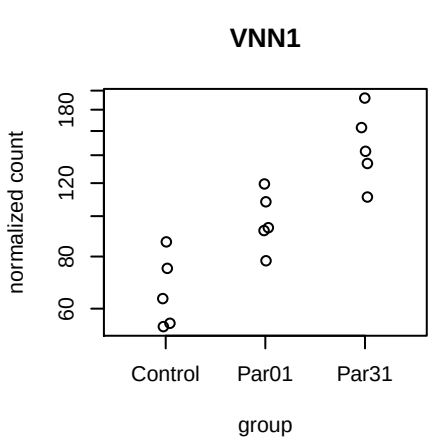
Control
Par01
Par31
group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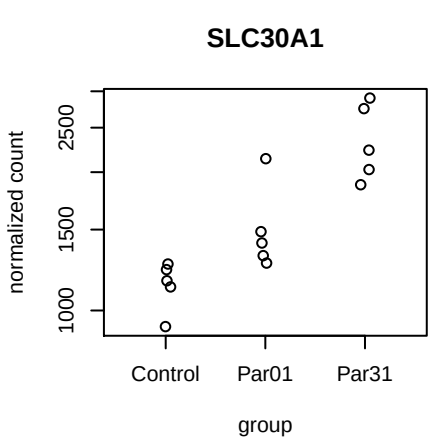
Par31
group


SLC30A1
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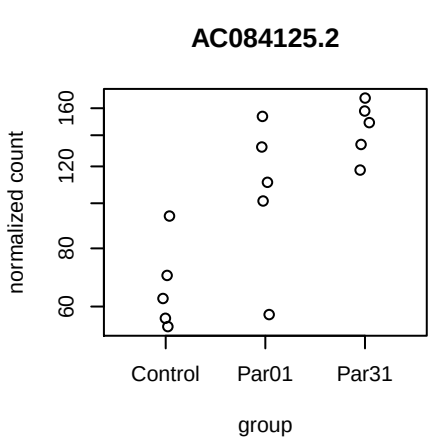
2500
Control
Par01
Par31
group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Par01
Par31
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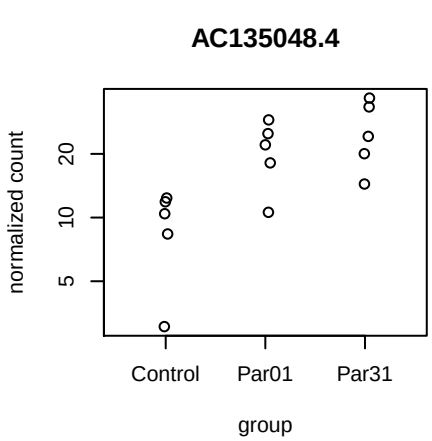
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Control
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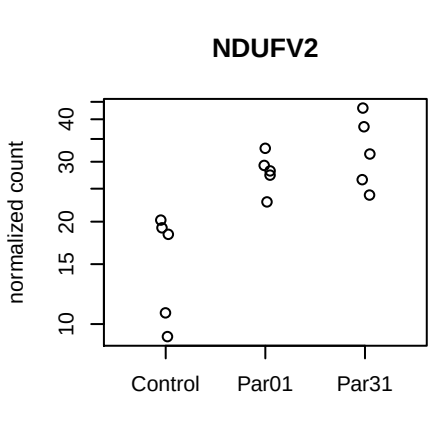
Par31
group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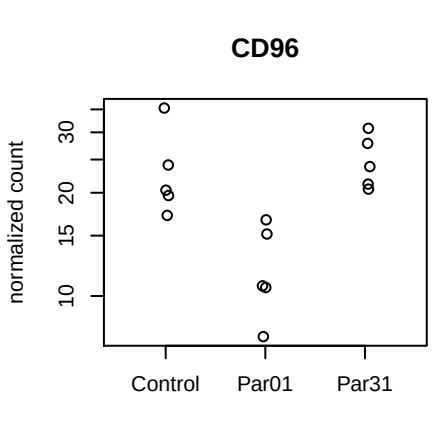
Control
Par01
Par31
group


CD96
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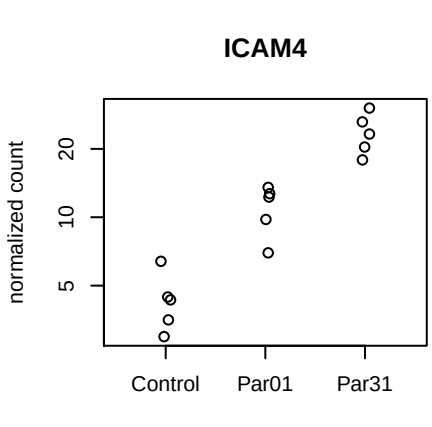
Control
Par01
Par31
group


ICAM4
normalized count
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10
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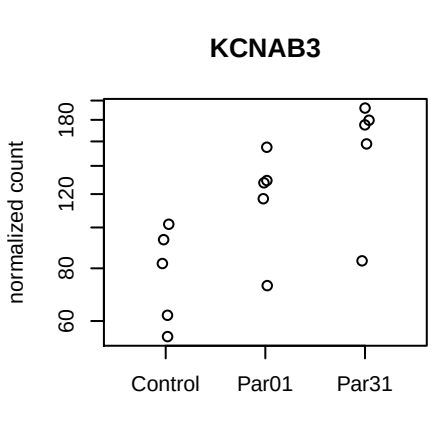
Control
Par01
Par31
group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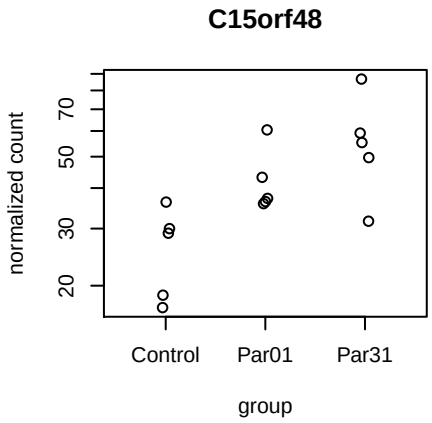
Control
Par01
Par31
group


C15orf48
normalized count
20
30
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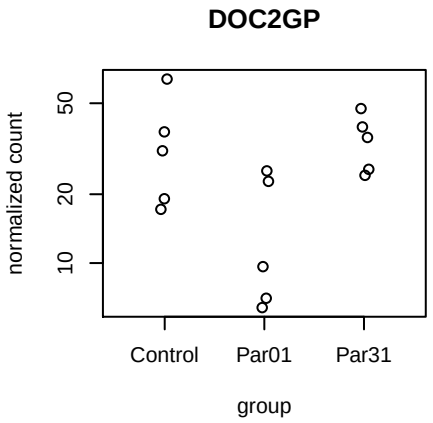
70
Control
Par01
Par31
group


DOC2GP
normalized count
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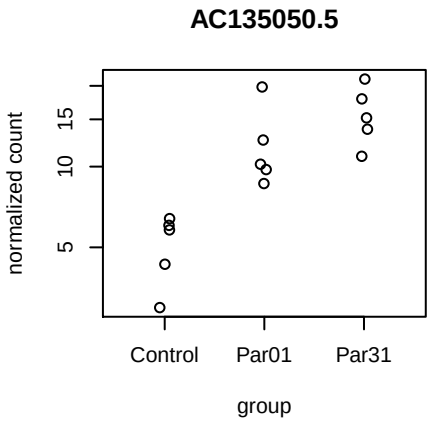
Control
Par01
Par31
group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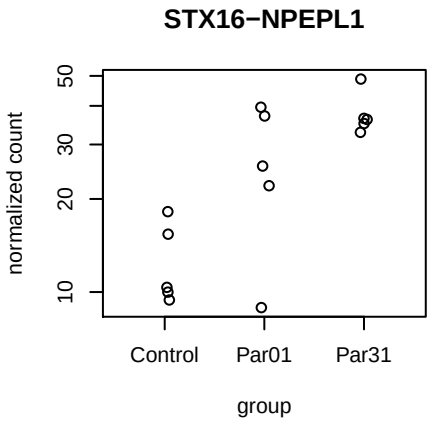
Control
Par01
Par31
group


STX16−NPEPL1
normalized count
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Control
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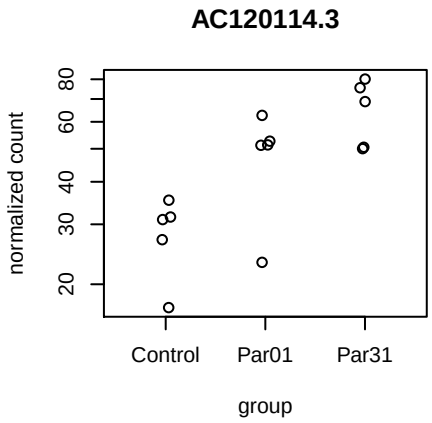
Par31
group


AC120114.3
normalized count
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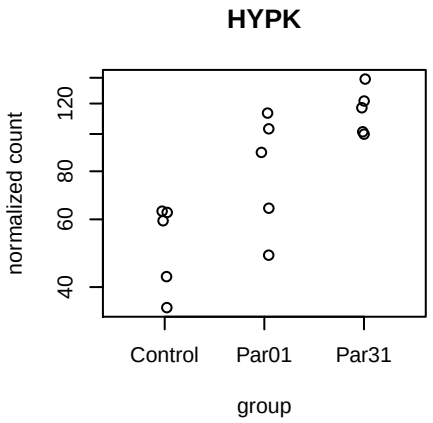
Control
Par01
Par31
group


HYPK
normalized count
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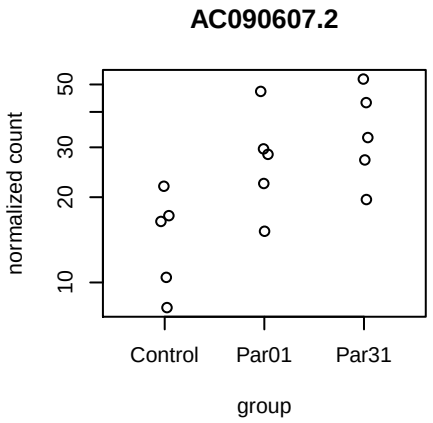
60
80
120
Control
Par01
Par31
group


AC090607.2
normalized count
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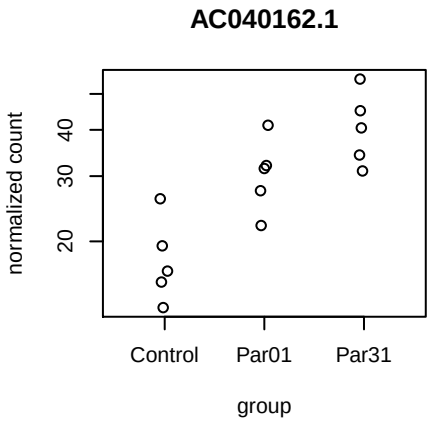
Control
Par01
Par31
group


AC040162.1
normalized count
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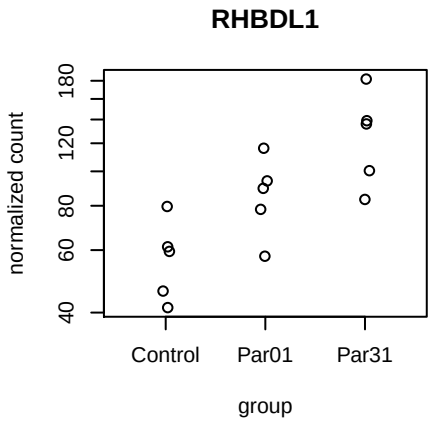
Control
Par01
Par31
group


RHBDL1
normalized count
40
60
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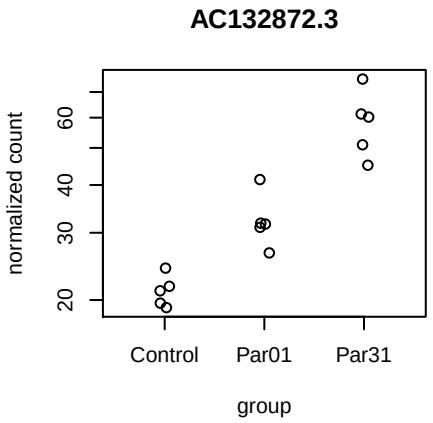
120
180
Control
Par01
Par31
group


AC132872.3
normalized count
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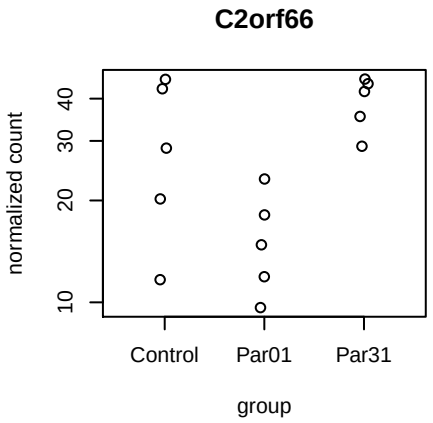
40
60
Control
Par01
Par31
group


C2orf66
normalized count
10
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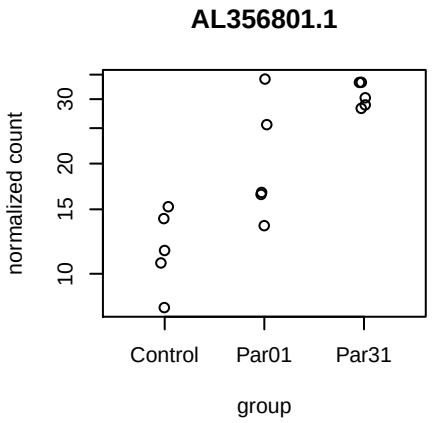
Control
Par01
Par31
group


AL356801.1
normalized count
10
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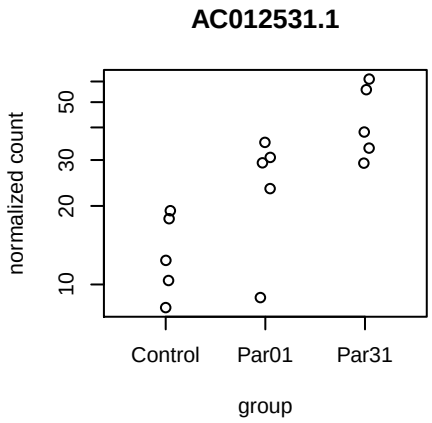
Control
Par01
Par31
group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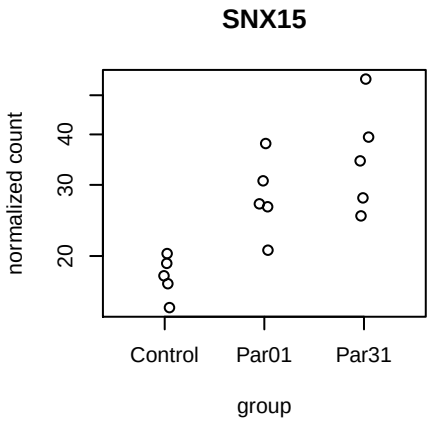
Control
Par01
Par31
group


SNX15
normalized count
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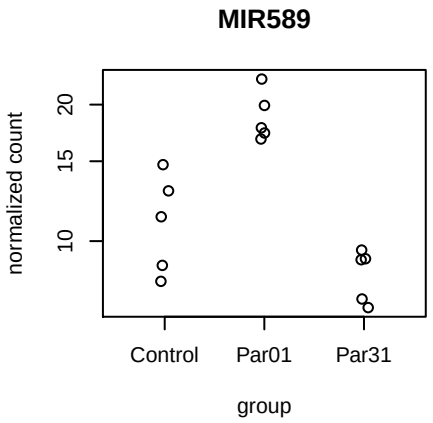
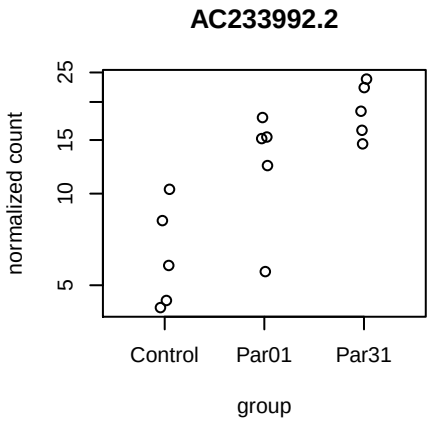
40
Control
Par01
Par31
group


MIR589
normalized count
10
15
20
Control
Par01
Par31
group


AC233992.2
normalized count
5
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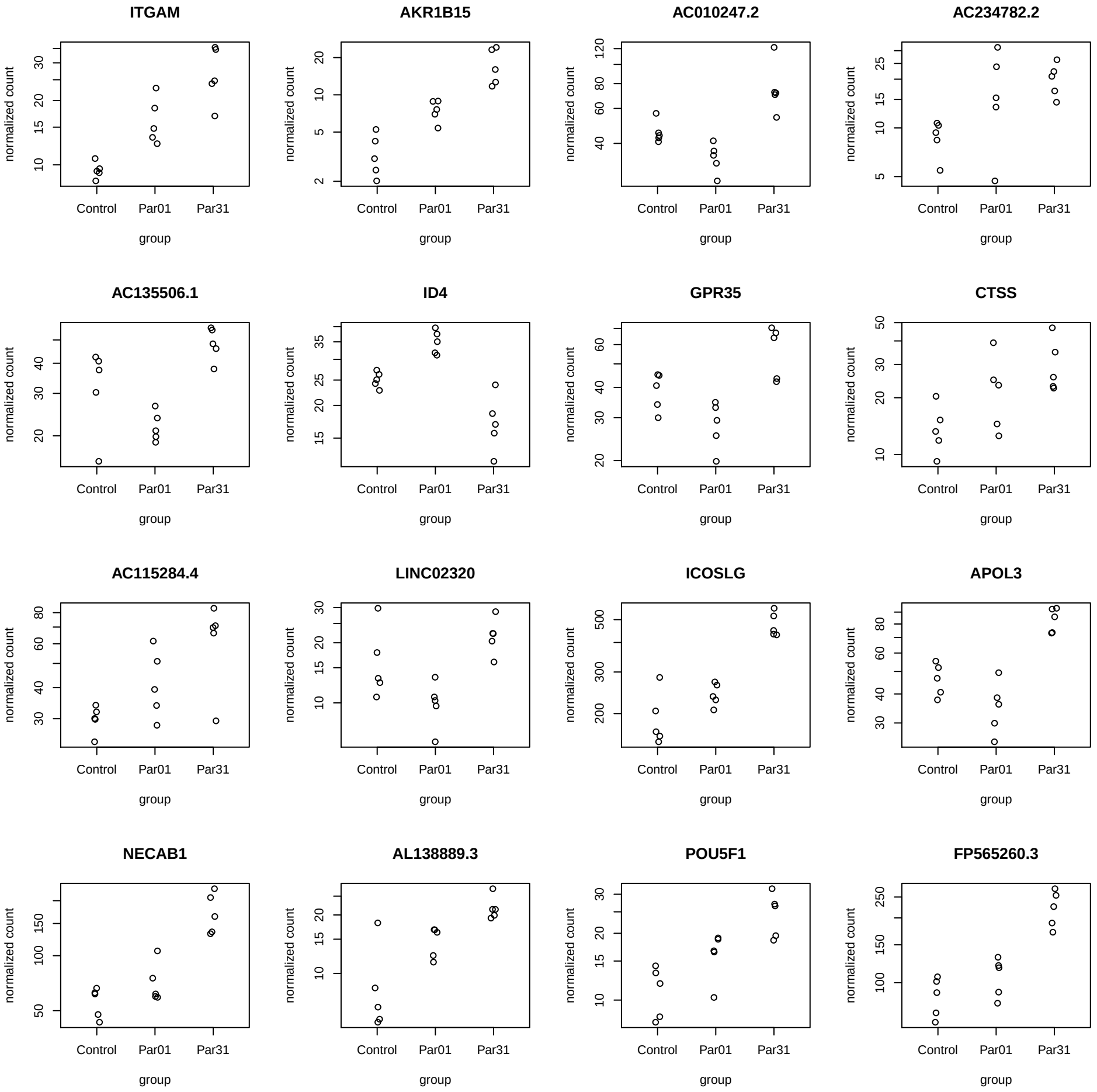
Control
Par01
Par31
group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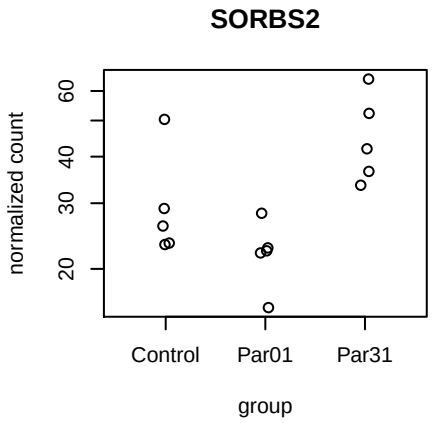
AC234782.2
AC135506.1
ID4
GPR35
CTSS
AC115284.4
LINC02320
ICOSLG
APOL3
NECAB1
AL138889.3
POU5F1
FP565260.3
normalized count
group
Control
Par01
Par31


SORBS2
normalized count
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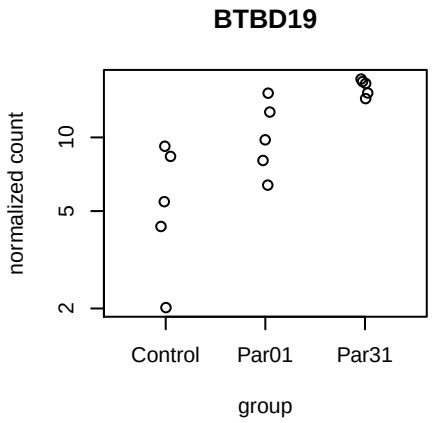
Control
Par01
Par31
group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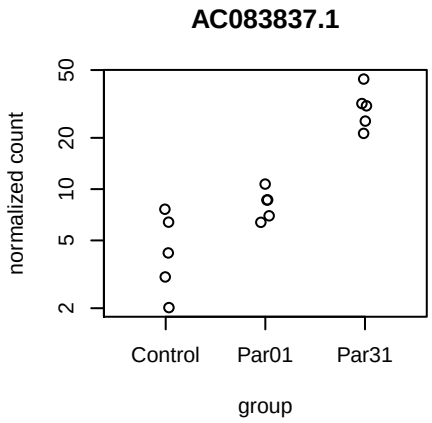
Control
Par01
Par31
group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Control
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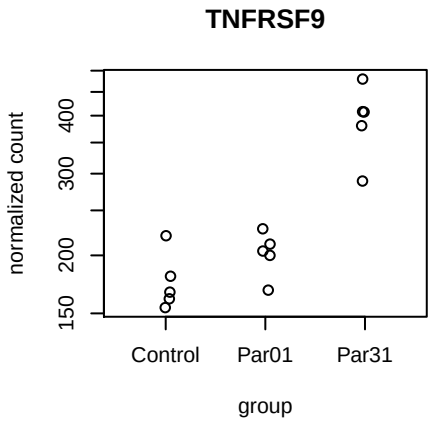
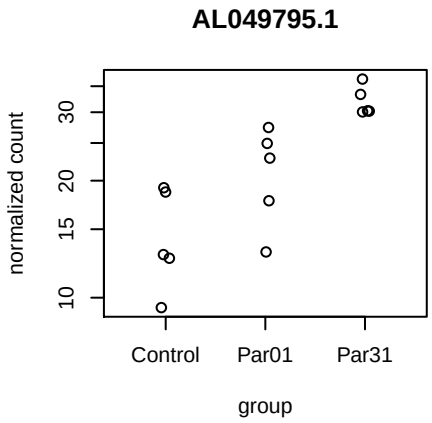
Par31
group


TNFRSF9
normalized count
150
200
300
400
Control
Par01
Par31
group


AL049795.1
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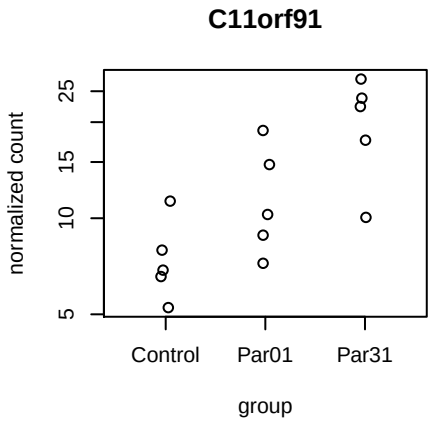
Control
Par01
Par31
group


C11orf91
normalized count
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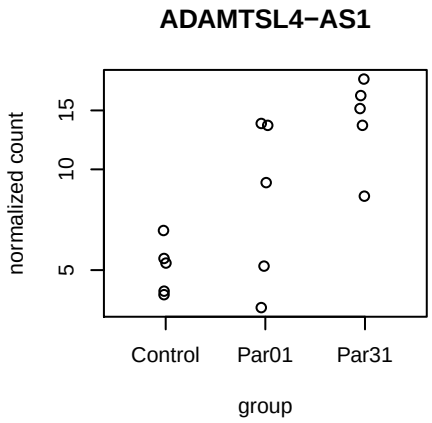
Control
Par01
Par31
group


ADAMTSL4−AS1
normalized count
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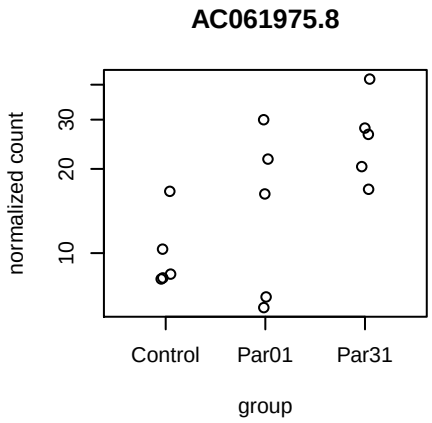
Control
Par01
Par31
group


AC061975.8
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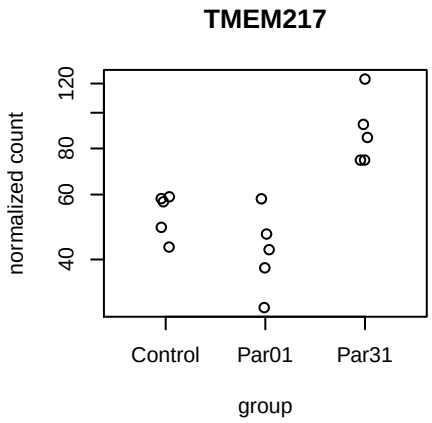
Control
Par01
Par31
group


TMEM217
normalized count
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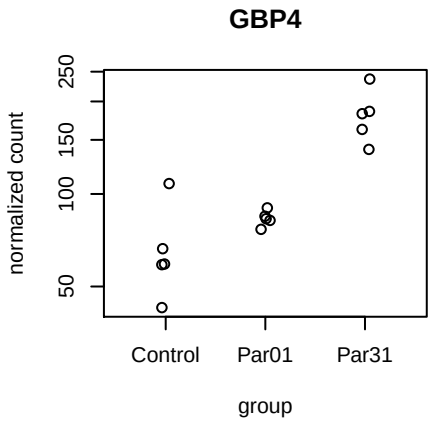
80
120
Control
Par01
Par31
group


GBP4
normalized count
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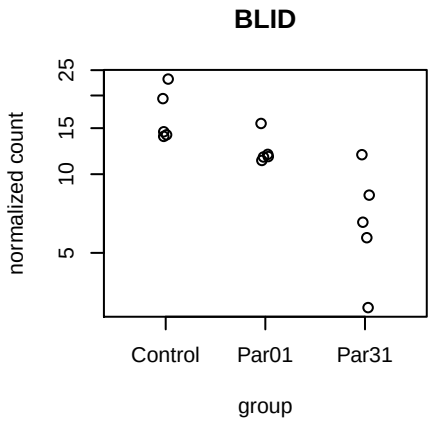
100
150
250
Control
Par01
Par31
group


BLID
normalized count
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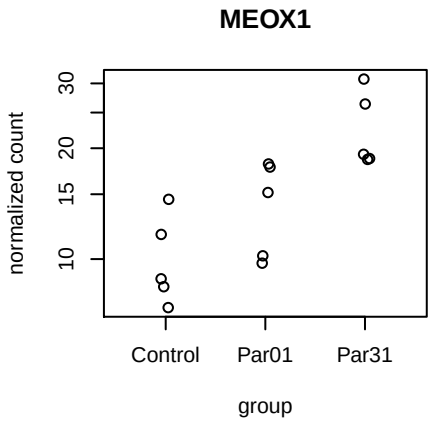
15
25
Control
Par01
Par31
group


MEOX1
normalized count
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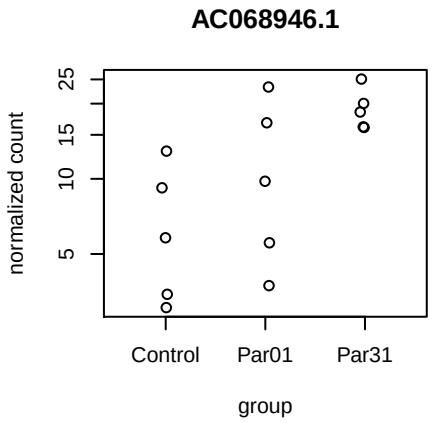
30
Control
Par01
Par31
group


AC068946.1
normalized count
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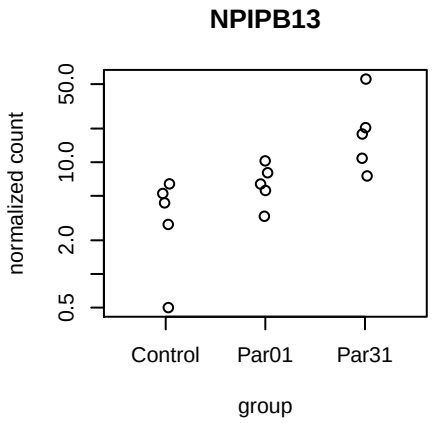
Control
Par01
Par31
group


NPIPB13
normalized count
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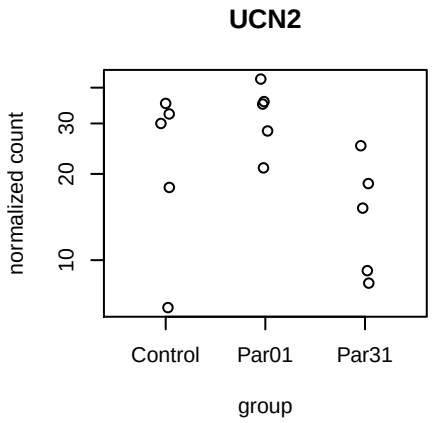
2.0
10.0
50.0
Control
Par01
Par31
group


UCN2
normalized count
10
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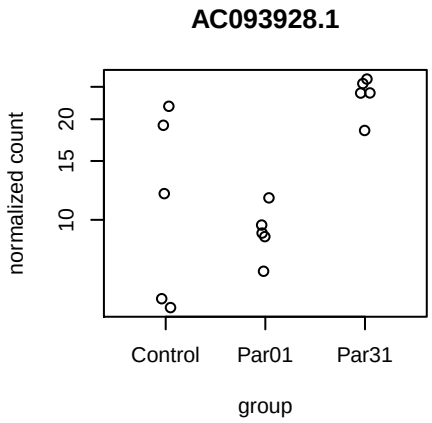
Control
Par01
Par31
group


AC093928.1
normalized count
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Control
Par01
Par31
group

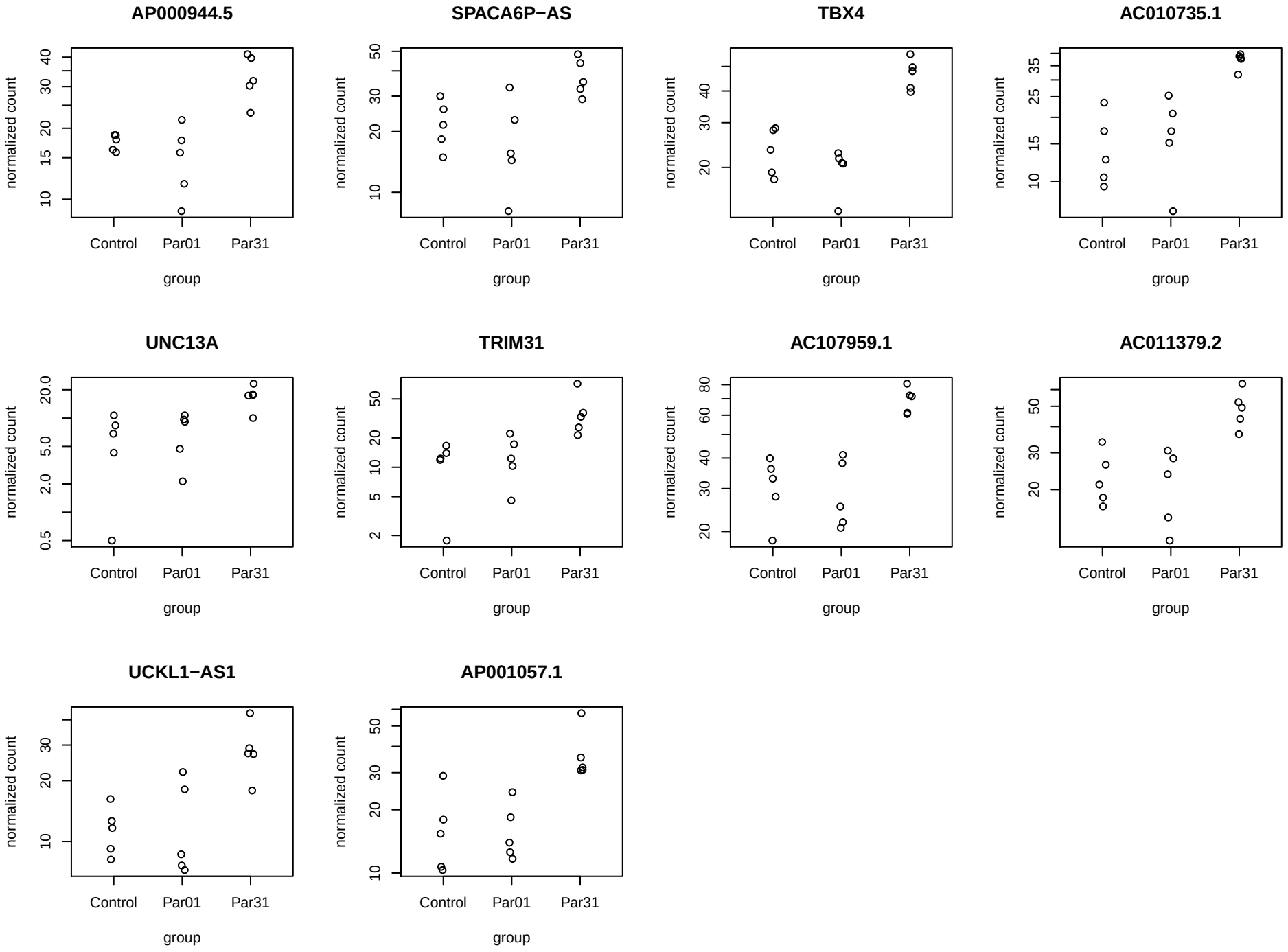

Figure S2: Boxplots of all 298 genes differentially expressed in the PC-3 PF RNAseq experiment.

Figure S3. Experiment hardware setup. A: Airbus 310 aircraft used for the 34th DLR parabolic flight campaign. **B:** View in the aircraft, equipped with the experiment racks of several science teams. **C:** The rack with the incubator used for the experiment. **D:** Inside of the incubator prior to take off of the flight. **E:** The Multi Sample Incubator Centrifuge (MuSIC) of DLR (Gravitational Biology) Cologne, placed in an incubator on ground. **F:** Samples within the swing-out device on the MuSIC centrifuge during acceleration. **G**: The Vibraplex device built by DLR (Gravitational Biology), Cologne, Germany.

Table S1 Demultiplexing statistic of the 10 PF and 5 control samples.

Sample	Barcode sequence	PF Clusters	% Perfect barcode	% One mismatch barcode	Yield (Mbases)	% PF Clusters	% >= Q30 bases	Mean Quality Score
1P 1	GCCAAT	54,026,813	98.33	1.67	10,913	100	93.96	35.94
1P 2	CAGATC	65,954,683	98.59	1.41	13,323	100	93.68	35.87
1P 3	ACTTGA	59,237,051	98.95	1.05	11,966	100	93.85	35.92
1P 4	GATCAG	50,967,453	98.98	1.02	10,295	100	94.05	35.95
1P 5	TAGCTT	32,965,164	98.95	1.05	6,659	100	93.54	35.85
31P 1	GGCTAC	61,988,136	99.24	0.76	12,522	100	93.25	35.8
31P 2	CTTGTA	42,205,855	98.4	1.6	8,526	100	93.36	35.82
31P 3	AGTCAA	67,427,596	98.51	1.49	13,620	100	93.49	35.86
31P 4	AGTTCC	64,146,346	98.84	1.16	12,958	100	93.37	35.81
31P 5	ATGTCA	56,824,184	98.38	1.62	11,478	100	93.14	35.79
Control 1	ACAGTG	42,430,335	98.87	1.13	8,571	100	93.92	35.93
Control 2	ATCACG	58,111,319	98.8	1.2	11,738	100	91.96	35.49
Control 3	CGATGT	82,935,298	98.83	1.17	16,753	100	94.14	35.98
Control 4	TTAGGC	42,112,474	99.13	0.87	8,507	100	93.29	35.82
Control 5	TGACCA	67,660,339	98.73	1.27	13,667	100	93.53	35.85

Table S3. Primer selection for the 32 genes and the housekeeper gene 18S in qPCR

Factor	Primer Name	Sequence 5′–3′
18S rRNA	18s-F	GGAGCCTGCGGCTTAATTT
	18s-R	CAACTAAGAACGGCCATGCA
Actin beta (*ACTB*)	ACTB-F	TGCCGACAGGATGCAGAAG
	ACTB-R	GCCGATCCACACGGAGTACT
RAC alpha serine / threonine protein kinase (*AKT1*)	AKT1-F	CTTCTATGGCGCTGAGATTGTG
	AKT1-R	CAGCATGAGGTTCTCCAGCTT
Caspase 3 (*CASP3*)	CASP3-F	CTCCAACATCGACTGTGAGAAGTT
	CASP3-R	GCGCCAGCTCCAGCAA
Caspase 8 (*CASP8*)	CASP8-F	TGCAAAAGCACGGGAGAAAG
	CASP8-R	CTCTTCAAAGGTCGTGGTCAAAG
Caspase 9 (*CASP9*)	CASP9-F	CTCCAACATCGACTGTGAGAAGTT
	CASP9-R	GCGCCAGCTCCAGCAA
Caveolin 2 (*CAV2*)	CAV2-F	GATCCCCACCGGCTCAAC
	CAV2-R	CACCGGCTCTGCGATCA
Cadherin-1 (*CDH1*)	CDH1-F	GCTGGACCGAGAGAGTTTCC
	CDH1-R	CAGCTGTTGCTGTTGTGCTT
Collagen 1 alpha 1 (*COL1A1*)	COL1A1-F	ACGAAGACATCCCACCAATCAC
	COL1A1-R	CGTTGTCGCAGACGCAGAT
Endothelial growth factor (*EGF*)	EGF-F	TGCCAGCTGCACAAATACAGA
	EGF-R	TCTTACGGAATAGTGGTGGTCATC
Endothelial growth factor receptor (*EGFR*)	EGFR-F	TTGCCGCAAAGTGTGTAACG
	EGFR-R	GAGATCGCCACTGATGGAGG
Ezrin (*EZR*)	EZR-F	GCAATCCAGCCAAATACAACTG
	EZR-R	CCACATAGTGGAGGCCAAAGTAC
Vascular endothelial growth factor receptor 2 (*FLK1*)	FLK1-F	TCTTCTGGCTACTTCTTGTCATCATC
	FLK1-R	GATGGACAAGTAGCCTGTCTTCAGT
Vascular endothelial growth factor receptor 1 (*FLT1*)	FLT1-F	CCCTCGCCGGAAGTTGTAT
	FLT1-R	GATAATTAACGAGTAGCCACGAGTCAA
Fibronectin (*FN1*)	FN1-F	AGATCTACCTGTACACCTTGAATGACA
	FN1-R	CATGATACCAGCAAGGAATTGG
Interleukin 6 (*IL6*)	IL6-F	CGGGAACGAAAGAGAAGCTCTA
	IL6-R	GAGCAGCCCCAGGGAGAA
Interleukin 8 (*CXCL8*)	IL8-F	TGGCAGCCTTCCTGATTTCT
	IL8-R	GGGTGGAAAGGTTTGGAGTATG
Cytokeratin 8 (*KRT8*)	KRT8-F	GATCTCTGAGTGAACCGGAACA
	KRT8-R	GCTCGGCATCTGCAATGG
Laminin alpha 3 (*LAMA3*)	LAMA3-F	AAAGCAAGAAGTCAGTCCAGC
	LAMA3-R	TCCCATGAAGACCATCTCGG
Laminin beta 2 (*LAMB2*)	LAMB2-F	TGCTCATGGTCAATGCTAATCTG
	LAMB2-R	TCTATCAATCCTCTTCCTTGGACAA
Matrix metalloproteinase 9 (*MMP9*)	MMP9-F	CCTGGAGACCTGAGAACCAATC
	MMP9-R	TTCGACTCTCCACGCATCTCT
Moesin (*MSN*)	MSN-F	GAAATTTGTCATCAAGCCCATTG
	MSN-R	CCATGCACAAGGCCAAGAT
Mechanistic target of	MTOR-F	ATCTTGGCCATAGCTAGCCTC

rapamycin (*MTOR*)	MTOR-R	ACAACTGGGTCATTGGAGGG
Osteopontin (*OPN*/*SPP1*)	OSP-F	CGAGGTGATAGTGTGGTTTATGGA
	OSP-R	CGTCTGTAGCATCAGGGTACTG
Plasminogen activator inhibitor 1 (*PAI1*)	PAI1-F	AGGCTGACTTCACGAGTCTTTCA
	PAI1-R	CACTCTCGTTCACCTCGATCTTC
Phosphatidylinositol 4,5 bisphosphate 3 kinase catalytic subunit beta (*PIK3CB*)	PIK3CB-F	AGAAAAGTTTGGCCGGTTCC
	PIK3CB-R	GCAGTCAACATCAGCGCAAA
Radexin (*RDX*)	RDX-F	GAAAATGCCGAAACCAATCAA
	RDX-R	GTATTGGGCTGAATGGCAAATT
Transforming growth factor beta (*TGFB1*)	TGFB1-F	CACCCGCGTGCTAATGGT
	TGFB1-R	AGAGCAACACGGGTTCAGGTA
TIMP metallopeptidase inhibitor 1 (TIMP1)	TIMP1-F	GCCATCGCCGCAGATC
	TIMP1-R	GCTATCAGCCACAGCAACAACA
Talin 1 (*TLN1*)	TLN1-F	GATGGCTATTACTCAGTACAGACAACTGA
	TLN1-R	CATAGTAGACTCCTCATCTCCTTCCA
Tubulin beta (*TUBB*)	TUBB-F	CTGGACCGCATCTCTGTGTACTAC
	TUBB-R	GACCTGAGCGAACAGAGTCCAT
Vinculin (*VCL*)	VCL-F	GTCTCGGCTGCTCGTATCTT
	VCL-R	GTCCACCAGCCCTGTCATTT
Vascular Endothelial Growth Factor A (*VEGFA*)	VEGFA	CTACCTCCACCATGCCAAGTG
	VEGFA	GCGCTGATAGACATCCATGAAC