

Supplementary Table 3: List of cluster genes that shows the difference by a factor of two or more between LAB-incorporated cell clusters-1vs HDF-1& LAB-incorporated cell clusters-2 v sHDF-2

Genes included in I	Genes included in II-1	Genes included in II-2	Genes included in III
KCNB1	COL4A6	unknown	HOXC8
RPS4Y1	IL13	MMP25	HOXA9
RPS4Y2	TMEM108	unknown	HOXB5
TDRD6	PLIN5	SLC30A3	HAPLN1
ADH1B	UNQ2963	TGM7	HOXC10
LHX8	GRM1	SEC16B	HOXA11
DDX3Y	LOC100132652	SYT15	HOXA10
TAC1	PFKFB2	LOC401164	KRTAP1-1
CNR1	LOC100128402	BCL2	CLSPN
NCRNA00185	FBLL1	NEK10	ALOX5AP
ZFY	C7orf63	TMPRSS7	HOXB7
C6orf176	FLJ41309	OR10H4	HOXB8
SPINK4	FLJ44253	ZDHC22	DEPDC1
KYNU	GOLGA8F	CDC6	MPPED2
ADH1A	FOXP2	CSAG1	unknown
USP9Y	unknown	OR2A1	WNT2
THSD7A	HAVCR2	RAP1GAP	CYP3A5
Cyorf15B	SOBP	FSHR	unknown
ADAMTS8	MAOB	LOC100131165	HOXB3
CLMN	unknown	RNF125	LOC100133311
LONRF3	LOC100130798	RIMS3	HOXA7
BARX1	AIF1	unknown	NEIL3
MYLK4	MCOLN3	unknown	DOK7
HLF	CYB5RL	SLA	LYPD6
CPLX1	MOG	unknown	KANK4
C21orf121	SUV420H1	unknown	E2F8
MOBK12B	unknown	LOC100129129	HOXA3
SLITRK2	RRAGD	SLC4A1	HOXA13
EIF1AY	LRCH1	unknown	NEK2
MKRN3	C6orf170	P2RX3	FCRLA
SP5	ANKRD5	LOC440028	TEK
MUM1L1	LOC100128386	CASP2	PAX6
SERPINB3	LOC645225	KRTAP19-7	ESCO2
IL18R1	ADAMTS17	LIN9	LOC100132588
unknown	FLJ33065	HAAO	SCRG1
KIAA1045	SLC14A1	unknown	UNC13C
DAZL	unknown	unknown	C8orf47
CCDC40	PYY	BPIL1	LOC100133311
MERTK	FNDC3A	unknown	LYPD1
UTY	RAB9B	OR4D10	unknown
FZD10	ZNF454	unknown	CLEC1A
ZNF204	unknown	unknown	unknown
EFHB	LOC100128336	unknown	SLN
DNASE1L3	P2RX6	INS	unknown
unknown	unknown	GNB3	NEDD9
INMT	MADCAM1	unknown	SPP1
WDR86	ZNF510	ANXA2	ESCO2
CXCR4	unknown	TNNT2	LIMCH1
IL18R1	LOC283587	LOC100129048	UCP2
NOVA1	LOC284561	DEFB124	CENPI
CAPN12	unknown	hCG_1817208	E2F7
SOBP	PROM2	HIST1H2AA	HOXA2
ABLIM2	MOBK12B	FLJ46020	PTPRB
C6orf221	LOC650794	unknown	RARB
ABLIM2	unknown	PTPN20B	TBX1
GAS2	unknown	unknown	TBX5
CDON	LOC727869	FAM129C	SDPR
LY75	LOC100292961	LOC286186	RASGRP1
KCNJ4	UBD	LOC145845	LOC283392
PAGE2B	ZFP14	unknown	PADI1
C9orf68	STMN4	IGFL2	GRIA1
MCTP2	unknown	unknown	LYPD6B
LOC100129973	TMSB4Y	MGC16703	MYL10
EYA4	LOC284648	MAST4	C2orf48
LOC100131354	PURG	LOC285762	HIST1H2AI
LOC283867	LOC100129767	ERLIN2	LOC100131594
LRP1B	RANBP2	C5orf49	AFP
TTYH2	LOC648149	unknown	COL6A6
PPIL6	C1orf170	TRPC3	ANGPTL7
MUC20	KIF5C	FAM111B	unknown
REPS2	LOC389834	ABCA10	MYBL1
ASTN1	BHLHA9	HIST1H4A	LITD1
LOC253962	unknown	ADAMTS14	LOC100129619
SOHLH2	DIO3	LOC100132672	CKM
SEC14L5	FLJ40852	HIST1H4D	WISP1
RASL12	LAMP3	unknown	unknown
THRB	LRFN2	LOC344967	PNLDC1
C17orf60	RSPH1	BTBD9	OPCML
unknown	GABRD	ANKRD26P1	AS3MT
IL18RAP	unknown	LOC100131099	HOXC4
NLGN4Y	INADL	GRIA2	ODZ2
unknown	CACNA1G	TTCC23	XIST
LEFTY1	unknown	GP1BA	HOXA4
ARHGAP28	ODF3L1	MYO5C	SORBS2
MAPK10	NUP62CL	unknown	HOXC6
NLGN4Y	RAPGEF5	OR10G2	LOC100132588
KRTDAP	LOC152286	TMPRSS8	SPC24
LOC642924	unknown	PGA3	LYPD6
RGS7	FLJ11710	NCRNA00095	MKI67
SLC40A1	FLJ32810	LOC643475	SP140
ST8SIA1	FMO4	LOC100287245	HOXB6
unknown	BZRAP1	GEN1	MKI67
CABP1	LOC100128071	LOC644992	SLCO2A1
CCL8	FRMD4B	unknown	CDH16
LOC151438	HORMAD1	RBMX	SFXN2
NR3C2	ATP12A	BCMO1	H19
SCARA5	LOC729739	LOC100134365	EPR1
TM4SF18	KCNA3	unknown	NPPC
GSTT1	ZNF846	KCNN2	LOC100132878
ARG1	unknown	OR6C74	KRT17
USP9Y	TAS2R19	SULT1B1	unknown
MYCN	LOC644949	LOC643371	SCIN
VENTX	LOC388279	unknown	SGCG
SLITRK5	GLS2	OR5C1	PALM2

LOC100130232
ZBTB46
SPTLC3
RSP01
PRKAA2
UNC13A
TXLNB
GLIPR1L2
TMEM132B
BCAS1
ESPNL
unknown
PTPRD
CCDC144B
PNMA2
GJB2
HULC
LOC440173
ARG1
DIRC3
unknown
LOC729076
WNK2
LOC646870
ATP8B4
PHACTR3
FLJ13156
NOD2
LOC100131089
LOC100127967
CXorf50
MOBKLB2
TRIL
C9orf171
AQP7P1
PPF1A2
LOC284276
CCL20
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NFIB
KCNC1
CACNB2
SYN2
COL21A1
MEOX1
HSPA12B
CD52
ADHFE1
MTUS2
CYP19A1
UNC5CL
WDR52
PCSK1
ADH4
SLC26A7
MACROD2
LOC100130331
CES4
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EMCN
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PLIN4
FAM47E
PPL
MAPT
SCN5A
SERPINB4
unknown
FMO3
GIMAP2
GDF9
C10orf58
CA11
unknown
RALGPS1
CXorf1
RPGRIP1
LOC391322
IRX4
LOC729885
APOD
JAKMIP2
LOC401630
ELF3
STRC
DLL1
BEX5
LOC100291851
PLK5P
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SHC3
GTF2A1L
IL18R1
ACCN3
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C7orf46
CACNG6
ANKRD6
MLXIPL
CUL3
C6orf81
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NFE2
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NKD2
IL1RL1

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C21orf49
IL15RA
VCX2
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SLC35F4
DKFZp761E198
ARL10
SPIN3
APOL6
C4orf36
EBF1
DBNDD1
ZNF3
C4orf26
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MATN4
RAB9B
FAM91A1
CPNE2
SYNGAP1
LOC100128655
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EEF1A2
RGL3
LOC100128077
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CYP11B2
LOC100128392
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PARD6A
PHACTR1
GEFT
VMO1
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TMOD1
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MORN1
FTCD
MIAT
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IQCH
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LAPTMS
GPR77
ZNF599
BCAR4
EFNA3
CCDC147
BMP7
C18orf34
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SCAND3
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NOXA1
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CLSTN3
PRSS35
NFIA
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MXI1
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CYTH4
TEKT5
PTPN22
LOC440983
LOC401052
LOC158863
DPY19L2P1
C9orf43
LOC100131582
NHLRC4
CSDC2
LOC729040
LOC729467
unknown
HSF2BP
GEFT
ATPBD4
MYOM1
FLJ41603
IL3RA
CEBPA
TSNAXIP1
LOC100130093
DDX3Y
PDE3B
OR9A2
LOC100128402
C12orf68
OR2T5
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NDE1
CECR7
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CLTB
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CLCN5
PRHL
ZNF259P
SETD1B
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NTF3
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SYNE1
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SPEF2
ITGA2
SH2D1A
LOC100128059
LOC100130433
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CLASP1
AHSP
SUPT3H
C21orf90
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EPB49
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LRP2
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CCGM2
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OSTCL
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CSF1
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TNR
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C10orf82
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SRMS
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ALG1
HNRNPCL1
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NDST1
TMED9
CABIN1
ELK4
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KIAA0564
C10orf35

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RACGAP1P
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TPX2
CENPM
KIF15
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CCDC134
DHRS2
NRG1
TROAP
CCNF
POLQ
FGF1
C6orf191
FOXM1
BUB1B
NUF2
KIFC1
PLD5
TRIP13
TROAP
FARP1
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COBLL1
GRB14
DEPDC1B
CCDC80
F2RL1
DPEP1
MMP10
STIL
ESM1
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APOA1
SKA1
NRG1
MXRA5
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RAMP1
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ABI3BP
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HOPX
HEATR7A
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COL15A1
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ZNF730
LPPR4
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HTR2A
SLC38A4
FKTN
CEP55
ODZ2
SKA3
CASC5
ITGA6
MPZL3
KIF20A
FND5
NEK2
MATN2
P2RY6
FAM64A
CCDC88C
TTK
STRA6
DIAPH3
HOXB4
ERCC6L
CTAG1A
HOXC9
GREB1L
CDC25C
NGFR
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ITGA6
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FGF1
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TBC1D3B
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CHGB
HGF
MAML3
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FBXW10
RHOJ
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KLRC1
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OVOL1
HORMAD1
JAKMIP2
SLC47A1
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CADM3
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ANXA9
SEMA6D
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ASXL3
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WFDC10B
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SCGB1D1
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ALDH1A2
SAMD13
ANKRD43
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C10orf67
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KCND1
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C20orf202
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CALCRL
FAM106A
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ROR2
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PLCXD3
NR4A2

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RIMS3
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EML6
SRGAP3
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TMEM30B
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TRIM66
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PIK3C2B
AMN1
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FLJ46875

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IL1RL2
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MYOF
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TSR2
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DOK1
SEPT11
SFRS3
SRA1

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STRA6
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ZFP57
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SPATA22
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NCAPG
CASP10
CTAG2
AURKB
HOXA11AS
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ISPD
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CACNA2D3
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SLC28A3

BCAS1
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ST8SIA4
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PPIL6
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PPP4R4
EFCAB6
RFPL1S
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DAZ2
GSDMC
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LOC440117
C21orf81
SYT1
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C12orf33

ST6GALNAC3
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KLHDC1
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ESPNL
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CSF3
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TMEM190
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TRAPPC6A
CYP19A1
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FAM171B
C1orf115
LOC729130
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SYNGR1
CES1
DLK2
ZMYND10
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ADSSL1
PLTP
ARSG
KCNK4
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FXYD3
CIRBP
HSD17B6
LYG1

ANKRD39
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SUMF2
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AHR
GLIPR1
SAE1
BAT1
ZFP64
MCM8
ASAP2
UBE2V1
UFM1
UCHL3
PAIP1
PAK1
YIPF2
GMPS
SPON2
TMEM48
TMEM117
RPL23A
C19orf42
CIT
PIF1
C4orf46
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GNB4
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HNRNPD
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TPM3
PCTK1
ATP6V0C
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CLIC1
EFEMP2
TPM2
RPSAP52
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CYR61
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SNRPA
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BZW2
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PTRF
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SNRPA1
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BOLA3
GTF3C6
DUS3L
FAM110A
DIXDC1
POLE3
CXCL12
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ATAD3B
NANS
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LIMS2
THOC3
TOMM22
EHD2
SFRS2
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COL4A4	ILF3
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CX3CR1	C14orf106
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LECT2	C6orf132
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CACNA1G	TRIM22
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CYP19A1	LMNB2
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AMY1C	unknown
STAT4	unknown
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C17orf69	LOC100128163
SPON1	LOC648987
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GCH1	unknown
LOC339524	CERCAM
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ALB	MRRL48
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FAM90A1	ORC5L
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AUTS2	ATF3
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FAM90A7	TRAK1
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CBR4	ARD1B
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CBLN3	SNX9
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KIAA1147	SOB5
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MANEAL	SARS2
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CEP68	MARCKSL1
MAPKSP1	LOC729991
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TPTE	TUBB
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GLI1	PTPRK

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KIAA1009	C5orf33
LOC100128905	USP12
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NKX6-3	LACE1
SCNN1D	UBXN8
PCDHB14	SRRT
CKMT1A	ITGA5
PNPLA7	AMACR
LOC283387	SMUG1
STARD6	TGM2
unknown	ZNF575
PHF21A	MPZL1
PLXDC2	GPC1
BCO2	KIF13A
CAACNA1H	SYS1
CYFIP2	MRPL45
BDNFOS	KIAA0090
KATNAL2	BNIP1
unknown	TMEM191A
CD70	ATRIP
HSPA6	FARP2
unknown	SUSD5
TOEANC	MCM7
IL1R2	TUBA1C
LOC100133598	NRAS
ITGB8	IVL
ZNF154	TUBA1A
LOC90834	UFSP1
hCG_1986447	PCYT2
LOC646719	UBE2NL
C5orf50	F10
unknown	TRPV2
LOC100289922	PCYT2
OAS2	PRMT2
CDC2L5	AFMID
unknown	PSMD5
unknown	PIK3IP1
PCDHB9	CKS1B
ANKDD1A	SLC25A4
PSPC1	DHDDS
S100A14	NGAPD2
LOC145814	ADSL
F11R	HIST1H1C
ACTR3C	BTBD7
SEC1	RNA5H2A
IGSF3	TRNP1
MXI1	MYL9
C14orf167	TTG7A
LOC349196	TOE1
AHI1	SFRS3
PLEKHH2	PRIM1
FAM63A	TIMM8A
PROS1	TCTA
ANKRD10	PRRC1
KCNRG	unknown
PLEKHG4	ERLIN1
ZNF439	HIST1H4K
unknown	LMCD1
TM7SF2	CERCAM
NUDT9P1	MIOS
RNF144A	P4HA3
MBTD1	LIMS3
MIA3	PARVB
RGS17	NAGK
C3orf34	SLC1A5
SATB1	CAV2
TRPM3	HIST1H4J
unknown	WDR34
C1orf113	HY1
SETD6	SH3BP5L
TNFAIP8	CNN1
LOC100133331	unknown
LRRC70	HEYL
unknown	AHR
C5orf53	TXNRD1
MTMR3	C10orf137
PHF10	CREB3L2
unknown	ABLIM3
KPNA5	ABCA1
ZNF547	SAMD4A
FAM110B	POLR3H
NLRP3	FAM158A
PARP14	LETM1
KIAA0485	ODR2L
KRTCAP3	HIST1H2BL

unknown	TRMT5
PCBP3	PLCB2
C16orf55	IPO11
LOC389634	VSIG10
IL1RN	HIST1H1E
FBXL14	SCHIP1
RCSD1	HIST1H4E
SCAPER	APOBEC3F
SUSD3	HSD17B1
PIBF1	MTMR10
ADAMTSL4	ABL2
NBR2	CBX5
TCP10L	HIC1
LOC842340	GPFR
CISH	HYAL3
RICS	GATS
BBS1	USP36
LOC389834	CRLF1
PANX2	SMPD1
SH3BGRL2	TUBB
FGF7	CHSY3
LOC730202	KIAA1609
SH3GL3	DOT1L
BBS9	EZR
COL11A2	CEP72
ACVR1C	CLIC3
LYST	HAUS8
GOLGA8A	WWTR1
STAT3	SORT1
NOD1	GIT2
BPTF	unknown
ATG4C	SFRS7
FAM8A1	PSMD9
ZNF181	TIMP3
C14orf49	ERI2
TCF7L1	MAP6D1
LOC100131727	GSPT1
FBXL17	TUBB
PREPL	HSPB2
ASB9	MAGOHB
LOC284900	unknown
ARHGAP29	RGS12
ETV1	MAP1A
GOLGA6L6	MPRIP
GK5	DNASE1L1
LOC441461	INF2
SENP6	SMO
TRGV7	TRPV4
LOC100128398	unknown
POU2F1	RIN3
FAM60A	DPP9
ANKRD12	ATP13A2
RNF214	APOBEC3C
CDC14B	DOCK2
RNF215	ARHGEF4
ACPP	FARP1
FLJ39639	unknown
TRIM38	FLJ31715
POLB	EXOSC2
OR7E13P	unknown
PAQR3	PGBD3
MMAA	TCEB3
VPREB3	KIF1B
HGN3	VEGFC
SALL4	WDR77
DENR	NFASC
SNX32	OR7E104P
FLJ35390	SFT2D2
CD19	LTBP2
ZCWPW2	POLR2D
LOC100130175	NRF1
ZNF547	PODNL1
CHD7	PRH2
TMEM133	ATP1B1
PF4V1	B3GALNT1
ERP44	unknown
TRIB2	PHACTR2
CG012	EIF5A
DDX58	C13orf15
RNF208	HS3ST2
LOC100128567	HMGN2
BCL11A	HDHD1A
C18orf18	RRM1
FBXO44	HERC4
unknown	EN1
HDAC4	RCL1
HRASLS	NAT13
LOC344065	FUT11
LIPC	LOC729799
CNOT4	BPGM
LOC729603	LOC845676
LOC202781	SYNC
DPY19L4	MAX
ABCC6	SPRN
IPW	API5
MAGI2	NUP50
CG030	unknown
TTTC33	ATM
CTNND2	HIST1H1D
C17orf67	SH2D4A
CLEC2D	PTPLA
FGR	MINPP1
LOC100131355	HSPG2
unknown	CLEC3B
ZNF630	CDH2
TMEM71	NRL
ICOSLG	DGKI
FLJ35220	TUBB2A

ECSOR	MYO19
APOC4	TPM1
GALNT9	RANBP1
CNOT4	HIST1H4L
PNKD	C15orf23
COX11	KIF3C
unknown	LOC401127
PIKFYVE	GMPPB
unknown	KANK1
HNF1A	TMBIM6
SH2D6	SLC35A3
DPYD	EYA3
SLC26A5	C9orf30
C1orf95	ARPC4
VWA5A	RAGE
ZCCHC18	ACTA2
BMP7	FLCN
unknown	TUBB2C
POM121L8P	CCNO
VPS13D	ATRIP
MTHFD2L	PCDHGB4
QKI	PMEPA1
UBQLN1	ESPL1
ARVCF	SGK1
LRRC28	GREM2
CCR1	BDKRB1
NPR1	LAMP2
unknown	CYTSB
LOC648556	BMP6
RPGR	C12orf75
LOC100130141	INHBA
UTS2D	LOC100132774
VPS13A	C10orf47
CNTLN	CSMD2
SULT1A2	KLHL35
CCDC66	SART1
SYCP2	FCHSD2
ZFX4	DTX3
RSP03	SETD8
HNRPLL	LOC100131746
C3orf35	SEC61A2
PNPLA4	unknown
CYP2J2	MN1
ABCG4	FAM180A
unknown	DNAJC5
YBX2	LIMS2
C14orf26	KONMA1
USP28	LOC100132832
NUAK1	MICALCL
GALNT3	SLC9A7
C1S	CCDC18
HR	MURC
LOC729970	CDCA4
SPATA6	SURF6
ATG7	unknown
IFITM1	unknown
TNFRSF21	unknown
SGEF	FANCA
NSUN6	ZNF703
CD14	CHN1
STMN3	ENSA
TNFAIP6	TBC1D1
unknown	ENPP4
IQCD	COL13A1
BAI2	LOC143188
MYO23	PLK2
HIF3A	ROD1
SEPT8	CCL25
unknown	BTN3A1
TSSK3	DNAL1
HSD11B1	RAD18
CLGN	C21orf7
C17orf107	INPP5F
DBT	AGPAT9
BEX2	MTHFD1L
unknown	PMS2L2
GADD45G	NACC2
ABCA6	SYNCRIP
ANKH	PXMP2
ARSG	unknown
TMEM71	unknown
CBX2	HNRPDL
MCTP1	TXNDC11
A2M	unknown
ACSS1	LIMK2
CUGBP2	unknown
PLAC8L1	NKX6-1
ZDHC11	LOXL2
LOC728534	PVR
unknown	LAMC2
IGF2	HBEGF
FLJ39534	PURB
VGF	unknown
DDIT4L	unknown
PAQR6	B3GNT8
GSDMB	unknown
PPP1R1C	FGFR1OP
RPS6KA1	DSP
HSPC159	EPHB1
C11orf70	C1orf96
FLJ45244	CBLN2
RPA1	TRPC4
unknown	MASTL
GLT8D4	ABTB2
LPHN2	GSG1
CMTM1	unknown
MBD5	SLC41A2
MAP3K8	CKS2

MYO1D	MICALL1
SEPP1	C15orf38
HSF4	C4orf46
CCDC152	SRCRB4D
PION	ZWILCH
RUND3A	C12orf48
SLC26A1	FAT1
FAM122C	HMGB3
APOE	RECQL4
AMPH	DUSP22
TPCN1	PEX26
PLA2G4C	LOC100128851
PEAR1	LOC100126784
HEXDC	unknown
MME	CMKLR1
BFSP1	ANKRD36B
OVGP1	NTM
TMEM116	PVR
SCARNA2	NOX4
hCG_1990547	ATXN10
DCHS1	SLC25A30
RHPN2	SUSD1
FBXO15	C16orf62
BDKRB2	MYLK
DPP4	CTSC
VASH1	C12orf45
ANKMY1	PLA2G16
LOC100129387	PKIA
BATF3	CCDC109B
ZDHC11	ADAMTSL1
CYP2D6	NPTX2
CD163L1	OSBPL3
TNFSF13	HIST1H4K
unknown	WSB2
C1R	PMAIP1
WISP2	SRGN
IFITM1	PCNA
KIFC2	LOC645676
C1QTNF1	RHEBL1
ASAP3	MCM4
TMEM198	MYLK
ZDHC1	STMN1
LRCH2	TBC1D25
TBC1D8	KCNK6
FAM183B	MGP
C1orf203	SHROOM3
AMT	CLIC4
GPR162	CAV1
FUT6	KANK1
C14orf45	F3
ADAM33	SKAP2
MME	PCNA
CRABP2	EWSR1
unknown	RANBP17
ETV1	PBRM1
unknown	ZNF174
ADAM33	MYO10
CCL2	ATAD2
RFX2	SLC7A6OS
LOC729680	JPH2
TRIM46	RASAL1
GOLSYN	MDF1
SCARNA17	HS1BP3
PLEKHG4	RRP7A
SPEF1	STRN
SH2B2	YTHDF1
ZDHC14	CORO1A
CACNA2D2	RFT1
ACSS3	ABL1
C10orf90	HIST1H2BB
CES1	LOC100128372
SEMA3F	CST6
SLC13A3	LOC729687
ZNF521	unknown
C5orf4	SLC38A10
ZNF783	MCM5
WDR78	SLC46A3
TPCN1	RREB1
DENND2D	CCDC159
unknown	ARSD
PTGFR	LOC100128994
NT5M	unknown
PID1	HIST1H4D
MAFB	MEGF6
STAC3	CRYBB2
REM2	HIST1H2BM
DHRS13	SYTL3
OPT1C	HIST1H2BI
PCBP3	POLA2
CXCR7	TRAIIP
TTC12	SCARA3
PARP9	CENPP
C8orf42	ATF3
UNC13D	C17orf53
NCOA7	SDC3
GALNTL2	PPP4R1L
ACSF2	PXMP4
TMTC4	AFMID
ALX1	NF2
LOC729013	ARHGAP23
PPHLN1	LMO7
GJD3	SLC9A7
NR4A3	LOC100128737
KIAA1683	FNDC3B
OLFM2	ECT2
C10orf107	LOC100128517
PRR5-ARHGAP8	PTHLH
LOC100270804	C4orf39

RHOU	unknown
FOXO1	LOC100130131
unknown	CYHR1
C2orf27A	CGREF1
OR13A1	CHAC1
HNMT	CHAF1A
CREB3L4	MPRIP
ROPN1L	ING5
RAVER2	MFGE8
TRIM13	LOC100133190
BET1	LIG1
NOTCH2NL	PHGDH
DDIT4L	FIBCD1
GJD3	MAP1B
GLDN	unknown
PLCL2	MARCH3
KIAA1324L	C9orf9
DPYD	FAM113B
DNER	C16orf59
unknown	SAMD4A
SLC7A7	HIST1H2BH
C7orf53	LOC100130938
ORMDL1	ARSB
RPS6KA1	HIST1H2BO
MTMR9L	unknown
RAI2	IL27
GPR177	RP11-631M21.2
ARAP3	MCM5
CHST15	PCYT1A
NGEF	RAB38
hCG_2022304	ATXN1
IMPA2	PRB4
MAP3K5	HLA-DPA1
WNT3	FANCI
ACBD4	CNPY3
ETV1	MX1
ZNF169	CRKRS
C13orf31	LRRC8C
SAP30L	SLIT2
CD302	HIST2H2AA4
LOC100129110	LOC400236
MDGA1	PHF19
SLC25A23	OAZ3
ID4	RFC3
TAS2R10	unknown
HDAC2	MTHFS
IQCG	MYOF
ICAM5	unknown
ZDHC11B	LY8K
LOC100129534	NEK6
RICS	TPM1
LAMA3	APOOL
AOC3	FAM174B
ZCWPW1	SNORA62
HLA-F	TMEM150B
LOC158402	CANT1
TMEM31	PLCXD1
ARVCF	FEN1
PLEKHA5	TRMT2B
PSD	TOP11L1
PNMA5	ENC1
WWOX	ADRA1B
ATP6V1G2	EXOSC6
unknown	COL5A1
CTRC	PENK
ROBO3	FLNC
TLE6	ADRA2C
DENND4A	TP53I3
PPP1R3E	CHAC2
unknown	ARNTL2
LOC100128009	C16orf75
PARG	SEC14L2
FABP3	CDK2
TNNG1	HIST1H1A
SNORA53	SKP2
ASPHD2	CD3EAP
LOC257396	HIST1H2BK
unknown	WIPF1
C1R	CAMK1
MGC21881	LAMC2
MAN2B1	HAS1
AQP3	UBE2S
PEL12	ODF2
MYO1F	PODXL
SLC44A1	unknown
CREB3L4	ZNF655
SH3BGR	BAMBI
LRRC20	ARHGAP19
C21orf2	KIAA1462
HSD17B8	LOX
GPR39	C20orf134
WDR19	P4HA2
LOC729421	EIF2G3
ANKHD1-EIF4EBP3	VMAC
NPHP1	unknown
GRASP	KPNA2
DLG3	ING3
HSD11B1L	ARSA
unknown	UCK2
KIAA1908	TPM1
PCNXL2	TMEM51
C2orf86	CHEK1
PCSK5	UBFD1
SERPINF1	RFC3
CPT1C	CLIC4
unknown	PRPS1L1
FAM26F	CAV1
SSH3	HN1

F11R	GATA2
PPP1R3F	PPAPDC1A
unknown	PSRC1
SGEF	ADAMTS1
BAI2	STAG3
DHRS12	LOC441795
S100P	GPR68
MXI1	unknown
C11orf65	HOMER2
LQK1	HIST2H4B
ANKRD13B	C9orf100
BTAF1	unknown
SPAG16	PDDC1
DTX3L	SULF2
unknown	LOC100128913
JMJD7-PLA2G4B	unknown
DNM3	BGLAP
RNF145	GPAT2
CLEC2B	unknown
DEAF1	DES
FBLN1	unknown
PLXNB1	CD83
OPLAH	HN1L
RNU2-2	LCE2A
DDR1	DNAJC27
CAPS	ITGBL1
SDCBP2	CARD9
JUNB	IKBIP
C3orf17	LOC389842
NPAS2	SACS
NCKIPSD	SLC7A5
ITGA7	ITFG2
ANGPTL2	HIST1H4I
EBF1	HAUS8
CFD	GLI1P2
SLC27A3	WDR4
SOD2	KDR
C22orf46	FPR1
SMOC1	NOL9
SULT1A4	KIAA0090
REEP2	GGCX
RAC3	RUNX1
TLE2	COL12A1
C9orf116	ARHGAP23
MORN4	BARD1
DOCK6	CFLAR
LMTK3	COL1A1
HSD17B7	SERPINE1
CLYBL	DGCR11
ACTR3B	FGF5
unknown	unknown
SHOX2	GAL
SFRP2	DSP
MAP3K12	TUBGCP3
NUD18	C13orf34
STXBP4	C5orf13
ZNF692	FAM167A
PHYHIP	ACOT11
FLJ46906	ADAMTSL1
NR1H3	C4orf12
unknown	FBN2
GSTA4	ICAM2
ARHGEF19	PCOLCE2
C5orf38	TSPAN13
FOSL2	CTSC
F8	CKS1B
NCKIPSD	TMEM167B
SLC22A18	FKBP11
LOC283575	FKBP11
ACOX1	FCRLB
ADC	CHADL
LRSAM1	THBS1
IL1RN	CSPG4
IGLL1	PCGF5
EPS8L1	TP53I3
C14orf45	SDC1
MMP19	SEC14L2
GRIN3B	ANAPC1
SCARNA12	CNST
H2BFM	BOLA3
CBX7	MECOM
NFYA	FRY
NAPEPLD	GNG2
ISG20	LOC285300
SEMA3B	C10orf12
USP53	NOTCH1
LAMA4	TBX3
GJC2	HIST1H4B
LOC440104	SASS6
JHDM1D	CPS1
DMTF1	SUV420H1
RPGR	HIST1H2AE
CYCS	unknown
ASTN2	ZNF823
TUFT1	SIGLEC16
IL33	PDAP1
ADAMTSL4	MICAL3
NRCAM	C6orf150
CYP7B1	SP2
unknown	LOC100134259
ADAMTSL4	AQP8
PPP1R3G	ULK2
CDKN2A	DBF4
TTLL3	DHFR
PPM1J	SF3B4
NPW	BCCIP
LOC100128881	DEPDC6
ARHGEF3	GALNT5

FBXO44	CHST3
FAM19A5	TG
unknown	DUSP4
CLSTN3	AMFR
IGFALS	ANTXR2
unknown	PSMF1
C1orf70	TNS1
C1orf213	ADPRHL1
CXCL6	MGC13005
ECHDC3	PLCB4
MIF4GD	TPM3
RAB31L1	RAD1
DBP	LOC100128130
PLAU	DLEU2L
CD40	LMTK2
C11orf71	PSAT1
RENBP	LRRC2
LPCAT4	ZC3HAV1
MIB2	AP4S1
JPP	LOC100293611
CD40	NCAM1
LOC254128	ZNF107
SEPT5	PDS5A
C22orf23	FZD6
RP1-21O18.1	FOXH1
TNXB	PTPN14
CC2D1A	ANP32E
unknown	KDELC2
unknown	KNTC1
TNFRSF6B	ENPP1
TMEM180	IMPAD1
TAS1R1	PAWR
GYG2	FHL2
LOC100128184	MARVELD2
unknown	ARL4A
CYP1A1	RBMX
HTRA3	SNCAIP
FOXP2	DCLRE1B
C10orf75	PGM2
TNFRSF6B	ZNF280B
ACP6	SGCD
RINL	PCBD2
SYNGR1	LOC283624
GTF2IRD2	DPF3
PDE4A	FLJ27352
unknown	TAF5
SPIN3	C12orf32
ELMO3	ABCG2
C16orf86	MTSS1
NEIL1	PAX9
C9orf50	PPP1R14A
CATSPER1	MID1
RNF208	LOC729839
LOC728431	PAX9
EPHB6	LOC285638
ABCA4	RNF38
POU5F1	FANCB
PAR-SN	MEG8
LOC100288439	PARP11
SILV	SAMD9L
WBSCR27	unknown
FLT3LG	PIWIL2
FERMT3	LZTS1
CA5A	ACOT11
ADCY4	LOC100131686
FLJ42875	unknown
C1orf211	LOC554203
unknown	PRDM15
LOC388849	ERI2
HAR1B	unknown
CCDC40	TRIM59
ABCA8	PRKG1
LOC389634	CC2D2A
SLC16A8	LOC100216001
NCRNA00110	BIRC3
ELL3	RHBDL2
GADD45G	NQO1
FAM40B	unknown
PAQR8	TNFSF10
METTL7B	LCTL
CASP8	SYNPO
FAM84A	ANO4
FAM198A	unknown
RAB3D	KBTD8
unknown	FLJ43315
SENP7	CASP10
PTPRCAP	unknown
LOC284630	SGCD
LOC728806	TYRO3P
LOC844246	CDC42
NUDT14	GNG4
CHST6	HAUS5
FLJ40125	DOCK5
FGF22	C8orf34
FAM189A1	DCBLD1
SYNPO2	PRIM2
SYNGR1	NEXN
GTF2IRD2	TRIM6
PVR	KRT15
SLC35A1	unknown
ALDOC	unknown
ABHD1	VIT
INCA1	LOC100291610
LYPD3	unknown
TMEM180	FAM83G
FUT5	SEPT6
TAC3	NRP2
unknown	SELI

MORG1	SPINT2
PPP5C	SH3D20
ALS2CR8	C4orf39
TMIE	P2RX5
GAB3	C21orf58
FTCD	unknown
unknown	GABPB2
ART5	KONE1L
unknown	HSPB6
EDA2R	CCIN
unknown	DOK5
LOC100131426	CEP250
MAMLD1	PITPNM3
ALDH3B1	RPS26
ALDH3B1	C1GALT1
FNDC3A	unknown
ARHGAP5	ARHGAP19
BEX4	C3orf59
LOC390595	CENPL
C2orf64	BMPER
TTTC21A	unknown
LOC644450	CEP170
TMEM38B	MID2
ANKRD42	FOSB
IFT80	BEND7
FAM59A	C1orf230
FAM65C	MAGOHB
DTWD1	INPP5F
ABR	ANP32E
FAM89A	TOR1AIP2
ALDH3A2	NPTX1
PLSCR1	RCAN3
PTPRN	unknown
ACTR3B	HMG8L1
NTNG1	KCNK1
ZCCHC2	unknown
MRPS25	CKAP2
ANKRD26	unknown
NIPAL4	XG
CCDC57	LOC646049
ENO3	DNA2
MMAB	BHMT2
EFEMP1	C14orf37
DYNC2H1	ATP2B4
ZNF148	unknown
COX18	LOC541467
unknown	unknown
TET1	PTPRJ
USP53	ADAMTS1
CCT6B	PTPRR
UACA	CPXM2
GPR155	ALPK2
CRTC1	ROR1
RAPGEF3	C6orf105
MAFB	POLE2
CCDC30	RQCD1
LOC100129295	ANP32E
EBF1	CHM
AGL	KCNMA1
SCARNA16	unknown
CMT8	GATA6
PARP6	C3orf32
CROT	UBE2T
LOC283481	LNPEP
C6orf89	ADAMTS6
CECR6	BBS5
FOXO4	ALDH1A3
FBXO4	RAD54B
RPP30	BNC1
ITPKB	FBXO5
SLC35A1	ABCA3
OSBPL5	FRMD6
PLSCR4	RCAN3
POU5F1	CXCL3
CCBL2	unknown
unknown	unknown
LOC100132529	unknown
PTGDR	unknown
C9orf24	HIST1H4H
LOC100216546	TBX21
PAQR5	TIMELESS
PRDM6	unknown
LOC401022	GRAMD1B
FAM161A	RAB3B
unknown	NET1
KCNK7	LRRC3
UVRAG	LBH
NFYA	SP110
SLAIN2	ROR1
CYP27C1	WDR20
ZNF720	H2AFX
FRZB	NEFL
SPATA13	VPSS3
CRIPAK	ANKRD44
KCTD15	PGGT1B
PRKXP1	unknown
ZMYM2	ZNF738
NTSDC1	unknown
PRKAA1	RHBDL2
BEX1	LOC440300
WDR33	CIT
VPS13A	LOC554202
LOC100130141	OR7E37P
FNBP1L	BAIAP2L2
KLHL24	VEPH1
LOC645752	LOC100131315
HS2ST1	SSH1
SMEK2	ITGBL1

DRD4	PDIA3
ANGEL1	NCEH1
SECISBP2	unknown
RPS29	EPDR1
NAB1	PSMC3IP
MAP2K5	ALCAM
FAM108C1	RASAL2
VSIG8	ASXL1
ATP6AP1L	RABEP1
CLDN15	LXN
DENND5B	MGC16121
unknown	unknown
MEIG1	NEXN
GPR125	ZNF469
C5orf27	NUDT15
SIPA1L2	MYBL1
PHKA1	IKZF2
NOG	MICAL3
ACVR2B	LOC100128239
LOC283070	LOC100287359
NBEAL2	C14orf80
C7orf61	PRPS1
RADIL	LOC100131700
GRAMD4	PABPC4
HSD17B7	PLAC8
ZNF397	TBX1
ZNF354A	KIAA0556
LOC100132288	ZARI
LRRIG3	APOA5
GPR62	ZNF365
LOC100131774	LOC100291714
TMEM182	HIST1H2AM
PLCL2	unknown
FAM178A	NPAS1
NDN	OGDH
SLC1A3	C1orf144
TUBE1	WNT5B
PMS1	DUSP7
BRWD1	FAM46B
POU6F1	HIST1H2BK
SGIP1	CARD9
GNL1	LOC100129478
MAP3K5	HN1
GSTA4	DHRS3
FAM149B1	HAS1
AGTPBP1	FGF5
CAPN7	FORLB
OMPK2	LMO7
NR8A1	ITGA4
USP15	unknown
ETNK1	RBP1
ZNF606	LOC645967
NFIA	LRRC38
LRRC39	DEFB103A
RASD1	GRIK2
COX19	unknown
PARP8	unknown
NINL	TCTEX1D1
LOC349196	unknown
LOC100134937	C4orf31
RHOQ	unknown
SPEP1	LOC728463
PARD6G	unknown
CISD1	POFUT1
LOC100216546	CLDN14
C2orf3	BRCA2
ABCC5	unknown
NUDT12	MYRIP
USP47	CGNL1
SYT11	unknown
SPRY3	FAM22B
NRCAM	CYTSB
LTB4R	ISLR2
NCRNA00173	C9orf53
LOC441178	WNT1
SYTL4	SCUBE2
unknown	GRIK2
FAM13A	C6orf204
C2orf60	ITPK1
SPATA13	ODZ3
BCAS3	TRIM29
ACAD10	KIR3DP1
WDR35	RBM47
PLA2G12A	TCF19
ACTR3B	GAS2L3
CWF19L2	unknown
LPAR2	SVIP
PIGV	BTBD9
TTLL3	GKN1
IFIH1	EYA2
TAF4B	GREB1L
MESP1	EPCAM
CLIP4	ANO6
DNM3	HLA-DRB4
CAPS2	LOC651721
ZNF658	FAM71F2
TMCC3	LCE2C
PPFIA4	SLC1A4
OPRL1	ECM2
LOC100190939	MPP4
ZNF630	OXTR
VWF	C8orf46
C11orf20	CKAP2
LOC374491	unknown
ABCC6	ADAMTS6
BCAS3	TEX12
FBLN1	RPL10
TCEA2	MYL10

LOC645212	LOC642350
ARG2	C11orf41
CITED4	C2orf88
ZBTB16	SCN9A
MLLT6	KCNJ12
PTGDS	SYN3
LOC642413	FRMD5
DHX58	LOC100240735
REEP6	unknown
THNSL2	LOC644422
CARD10	BRIP1
CNIH3	MPP4
EGFL8	DBF4
SULT1A4	TNFRSF19
NOV	WDR67
DNAL4	FLJ12825
CDKN2A	unknown
C13orf33	ZNF367
SLAMF8	SYNPQ2L
ABHD8	unknown
CTSF	ITGA8
PARP6	C17orf76
CEND1	unknown
SHANK3	DEF6
GAS1	unknown
XPA	JPH3
ZNRF1	FASLG
SPATA13	TRPM6
MUC1	CD24
NFS1	MKI67
CTSK	LOC100131366
C4orf29	NCRNA00092
IL27RA	FOXP1
PALM	PLEKHB1
C9orf72	unknown
RIMBP3	unknown
HOXD3	LOC645307
STAMPB	DHX57
PACRGL	CLDND2
LOC255512	LOC728145
ZFYVE28	CHRM3
CPAMD8	DENND2C
PCCA	ROR1
SYNGR3	HOXD9
BCAS3	LOC100128055
unknown	unknown
VPS13C	PITX1
unknown	FAM101A
PFKFB3	ELN
unknown	WDR62
ABL1	C20orf118
MAPK12	BANK1
SLC25A42	C1QTNF2
SEZ6L2	VPSS3
PPP1CB	unknown
PPARG	SPTBN1
RSL1D1	LOC100131910
ATRN	ZNF681
BSCL2	DAND5
FLJ90757	YIF1B
ADC	SLC8A1
TM4SF1	unknown
CC2D1A	KIF18B
CCDC102A	ESRRG
IFIT2	DOK6
PRMT2	PTCRA
SERPING1	ABCB1
CTSB	unknown
AGPAT4	AADAC
C1orf97	LOC348751
SLC43A3	SOX17
C2orf43	KIAA1217
IFTTM4P	unknown
ZDHHC3	HLA-DRB5
C6orf64	HMGCLL1
LOC644525	unknown
TTC8	IGFBPL1
NINJ1	unknown
ATG4C	POLE
FUK	SLC25A21
SIRT5	unknown
AHSA2	ARL5B
FAM60A	LOC652554
CHKB	unknown
PLK1S1	MYOCD
SLC6A6	GRHL3
CTBS	unknown
PRPF40B	unknown
BBS9	CYP3A7
LOC644021	D4S234E
C6orf154	C14orf145
unknown	TDRD9
unknown	FRMPD4
RNU1-5	SMC1A
LOC100286937	C6orf114
LPHN2	SORCS2
TRPS1	LOC650293
C1orf66	PVRIG
PSMB9	SAA2
CEPT1	FAM53A
VAMP8	AK5
LOC100293193	CDH18
PTGS1	DCBLD1
ZGLP1	C20orf103
GNPMB	WNT16
CRTAP	FLVCR2
EMX2OS	unknown
TMEM25	MARCH4

SVIL	INPP4B
MSX2P1	FAM26E
GBE1	SSTR1
DEAF1	C16orf11
SNORD3B-1	PDZK1
PLEKHA4	GSTA2
ANKZF1	KDEL2
ANKRD37	WNT11
DTWD1	PPPDE2
SGIP1	RECQL5
unknown	SGCD
PDE4B	ABI3BP
N6AMT1	PTGIS
C2orf64	FBN1
PIP5KL1	INCENP
PNRG1	C10orf47
ARL3	BMPER
IMPA2	C1orf118
KLF2	RBM33
GPD2	GPAT2
TMEM150A	CCDC134
OPN3	FAM105A
DGAT2	PTPRR
LOC728537	USP41
C17orf100	SNX26
LOC375190	DYNC111
RBBP4	NKAIN1
CD302	HIST1H2BJ
C9orf64	KRT83
VAMP1	FCHSD2
C1S	FAM198B
TMEM35	MNS1
PSEN2	NGAPG2
C17orf108	GINS1
MBTD1	unknown
C21orf122	RASAL2
unknown	RNF152
ARRB1	unknown
TRKH	TNFRSF10C
unknown	BRCA1
LYPLAL1	unknown
PHC1	HELLS
LOC283050	FAM7A1
FAM120C	unknown
C4orf49	FNDC1
LASS1	TMPO
FCHO1	HSPB8
TSPAN11	BLM
REV3L	unknown
NOC3L	unknown
TMEM38B	SMC4
CHURC1	UHRF1
NOTCH4	ST8SIA5
CXorf57	LOC388780
FLJ40125	unknown
LIPT1	LMO2
SOCS1	LOH3CR2A
unknown	STC2
HSPC157	COLEC11
RFESD	SKA2
LOC100130557	RACGAP1
TNNG2	C6orf173
TMC4	PACSIN1
CABC1	IGFBP1
LOC728392	LOC727916
DCAF8	unknown
KIAA1199	SETD8
LOC646999	unknown
DENND1A	PDLIM4
TMEM158	UBASH3B
CXCL14	GINS4
MYLIP	SLC35D1
LPHN2	C3orf52
TLR2	DNAJB4
ZCWPW1	unknown
LOC286052	PTER
JAG1	DARS2
NRARP	C1orf118
DISC1	WHSC1
IQCK	unknown
PCSK5	MRAP2
ENOX1	LOC387647
FZD4	HHAT
ISOC1	HELLS
RGS2	LOC729595
EFCAB7	ITGA4
PPARG	C1orf135
TRIM47	BAALC
unknown	CTPS2
MOSC2	PTX3
ZNF254	E2F1
AGPAT5	PF4
NFIL3	MMP7
BBS2	GALNT10
ZNF22	KIF20B
C8orf40	COL12A1
CDH13	SGOL2
AUH	C11orf82
SMARCA1	LOC100128242
TRNAU1AP	ASF1B
RAB33A	PRC1
SCD5	KRT19
HMGN5	CENPN
SH3BP5	LOC283788
SLC35E2	SLC22A20
unknown	KONS2
TRAF5	C19orf53
ADAL	unknown

PXMP4	LSAMP
NFKBIZ	ZNF623
TNKS	unknown
LOC100128292	FANCA
SLOC22A5	GRIK2
C1orf213	NFASC
RXRβ	HIST1H2AC
IRX5	EVI2A
PRMT2	DMC1
NTNG1	SUFU
MSI2	HIST1H4F
LOC388630	unknown
BCR	HIST1H2BD
PBXIP1	unknown
ATP6V0E2	ADARB1
C14orf132	unknown
GPR125	WHSC1
unknown	C1QL1
PRKAR1B	KCNF1
AXIN2	ARSI
C17orf96	unknown
C1orf54	TAF13
ASGR1	C1orf51
SLC36A4	CCDC80
CFH	DOCK5
ZNF438	P2RX5
TMCO4	C11orf91
FFGT	PLCXD1
LOC285550	GDPD3
WDR19	SSR3
FLJ37798	BRI3BP
QPCT	HAS1
C1orf133	THBS1
C11orf54	KIRREL3
SIRT5	NRGN
PREX1	GSC
SAMD10	LHPP
CLK4	HIST1H2BG
ABHD6	SIRPB1
C10orf104	CA5BP
TTC14	NGF
ZNF333	STXBP6
CCDC25	HHIPL1
LOC390940	CDA
MTERFD3	MGC72080
CCPG1	unknown
IFT81	TNFRSF10A
EEPD1	unknown
ZNF280D	CCDC25A
SLC25A37	KIF22
LNP1	KIF22
GPD2	PSG8
TMEM106B	unknown
SCD	CCDC89
CTH	NINJ2
C14orf147	IL13RA2
PARP12	GATC
LMBRD1	EFCAB4B
VGLL3	unknown
ACPL2	ADAM19
NEAT1	MELK
GHR	GABPB1
C8orf83	GPAT2
C3orf70	WDR51A
KLHL5	BDNF
ZNF280C	ATP2B4
MDM1	STXBP6
SCAI	ABCC9
DENND5B	DCBLD2
unknown	HIST2H2BF
CLCN4	SHROOM3
KLHL2	TCOF1
TMEM143	CDKN2C
VPS41	CENPN
LOC222699	CHST10
LOC100134387	ENPP1
PLBD2	CENPO
LOC642852	GINS3
BEND6	ENPP2
LAMA4	PTTG1
C6orf162	MDM1
TLR4	ARHGEF5L
TRO	GFRA1
RFTN2	SOC37
DHX40	unknown
LEPR	DAB2IP
CCL27	LIN7A
BRWD1	IL17B
LHX6	LOC100128994
C8orf85	unknown
HTRA3	LOC150381
SRRM3	SKA2
HGFC2	WWP2
ABCA5	SPATA4
DDX17	HIST1H1B
KIAA1712	FANCD2
PROS1	WDR76
C11orf70	unknown
BRWD1	HIST1H2BC
RFX3	MPHOSPH9
POLI	IL32
RCOR2	CDH4
SPG20	CDH2
LOC254057	RBL1
TMEM187	KRT34
unknown	PSG2
ZFYVE16	VIT
unknown	VCAN

XPR1	LOC81691
ALPK1	TRIP13
WDR60	IFI44
SESTD1	LRRCL15
MAN1C1	ULBP3
unknown	unknown
ALDH7A1	LOC100129532
LOC389493	TMEM164
LOC91450	ENHO
GATAD2B	FRMPD4
LOC645158	LCE3D
FOXK2	MYBL2
ANKRD46	IQGAP3
CC2D2A	CCDC8
CHIC1	unknown
unknown	unknown
ZNF230	STIL
AR	PAX6
NPHP4	unknown
SLC3A1	CDH15
ZNF638	RASSF2
NHLRC4	C11orf41
C20orf94	TTLL5
SEN7	C3orf43
KGFLP2	PLXNA2
DNAJC24	TRIM63
MTR	PCOTH
SLC2A3	PTPRS
KRTAP10-1	CCNB1
FBXO24	DMRT2
ZNF25	MGC72080
unknown	KY
LRCC1	TES
COL11A2	PODHGB1
unknown	TMEM106A
PNRG1	CDC42EP3
TTBK2	unknown
TCFL5	IL22RA1
KIAA0802	TRIM6
LOC100129550	RIBC2
MYO1D	CAP2
TNFRSF14	KIF20B
KIAA1530	DHFR
IFT74	LOC728353
ZNF605	FLYWCH1
FBXO41	MYPN
ZNF862	GCNT1
C3orf23	KCNJ2
IERSL	FERMT1
TRIM2	EPHB2
COG6	CCNE2
CORO6	FOXF1
AZ12	ZNF280D
INSIG2	PRPH2
LOC730236	ALDH1A1
MDM4	ATAD5
PCTK2	AMIGO2
PSD3	unknown
PM2DD2	DSCC1
LEPROT	RAPGEF6
MEGF8	UBE3C
INTS8	LOC730961
LARP1B	AURKAPS1
SCARNA9	KIF14
ADAMTS13	CPA4
UOCRB	PDGFD
RDH10	LOC440900
EXOC6B	AGMAT
SHPRH	unknown
ZNF720	ALDH1L2
FANCL	MLF1IP
CLIP4	PITX1
LOC100130107	RAD51
CLIP4	CENPF
LUO7L	MND1
NIPSNAP1	FOXSI
SLC35B4	LOC100131262
IFI16	HMG83
LOC284219	BTBD11
HELQ	CAMK4
MTAP	CACNA2D1
DYNC2L1	ACACA
C6orf57	LOC100133479
KLRAQ1	ESYT3
USP45	KCNMA1
RNF13	MMP24
ZNF383	PSG11
OPNE5	ADRA1D
unknown	KIAA0226
ZCCHC6	LOC645978
BBS10	IL21R
ACADM	RUNX1
FBXL16	SERPINB7
STAT5B	IL32
TTC13	FAM88B
unknown	CHAC1
HECTD2	KIF26B
CA12	UHRF1
C3orf72	unknown
ATP7A	PTTG2
DKFZP586I1420	TLX2
NBEA	FUCA1
ZNF25	EDN1
IFT88	CTGF
NDRG2	S1PR1
SLC25A36	B4GALT1
VPS13C	POSTN
SLC5A3	ITGA11

SP4	CRYAB
TRIM45	TAGLN
FAM91A1	SUV39H1
GCA	FANGD2
TRPS1	C14orf37
FBXL17	FAM72D
ZNF292	E2F7
CXorf23	HHIP
FGFBP3	NXN
DAK	MRPL1
ZBTB41	ORC6L
ERO1LB	ANGPT1
MTMR9L	RAGE
HERC2P7	ANKRD2
SYT3	unknown
HR	MAD2L1
LOC653510	CPXM2
N4BP1	TAGLN
C5orf45	RAD51AP1
ACADS	CDCA5
STAT3	CDT1
RALGDS	CDKN3
unknown	TYMS
DNPEP	KCNC4
RNF13	AURKA
SP3	CCDC8
PLEKHH3	CENPE
OREG1	HSPB3
ZNF354B	ORC1L
RPRD1A	B4GALNT1
METT5D1	PRR11
SERPING1	RAMP1
MCL1	PKMYT1
MGC21881	CDCA5L
NFXL1	FAM25A
TTC32	PDGFB
ZFP90	FBXO43
IRAK2	PLCB4
unknown	XKRX
PLEKHA1	C5orf13
WDFY3	BLK
LOC200609	EDN1
CREB2F	UNKL
FAM162A	WHSC1
COL8A2	COL5A1
FBXO46	LOXL3
KDSR	unknown
LRIG3	CENPN
GBP3	GAD1
HEY1	MATN3
GALC	VSTM2L
RPS6KA5	C15orf42
BIVM	LBH
ATG5	LOC145694
RBL2	PPM1F
ZFP161	ADAM19
GABARAPL2	MYLK2
CHML	OR8B8
ITM2C	FAM107A
LOC286161	unknown
C5orf23	LOC646324
CCDC74B	EPHB2
CPSF3	unknown
IGFBP2	PSG5
R3HDM2	SPAG5
ZNF277	RAD54L
DENND4C	LATS1
RC3H2	ZWINT
ZNF266	HSPB7
TANC2	KIF23
PRPF4B	HIST1H3B
SESTD1	COL8A1
MARCH6	DIRAS3
PAX3	unknown
SFRS18	MASP1
DOCK11	CDCA2
WTAP	FAM54A
NDRG3	NUSAP1
VAMP4	unknown
PSD3	CECR1
SLC25A36	HIST1H2AC
LPAR1	EXO1
SCAMP1	LEPREL1
DSEL	LOC400043
SP100	DKK1
PCM1	IGFBP3
WARS2	TK1
unknown	CDCA8
C14orf139	NDC80
PLEKHA1	CCNB1
SFRS12	MYO16
TECPR2	unknown
RIGB8	ZWINT
C9orf95	NEURL1B
PKNOX1	PALMD
RALGAPA1	NRN1
LOC399744	DTL
HDAC5	TOP2A
APBB3	OIP5
DDX58	IL7R
EFHA2	SEMA7A
OSBPL8	LOC729983
CTBS	GINS2
unknown	KIAA0101
SLC25A37	unknown
unknown	NOX4
HLA-B	CDKN3
AKAP12	MALL

GCOM1	C9orf140
HLA-B	PT16
MYO1B	PTTG3P
ADH5	SNORD12B
unknown	OPLX3
MXD4	AZU1
ARRDC3	NKX6-2
LOC203274	unknown
CREBBP	MOBK1A
ZCRB1	UTRN
IDUA	FAM160A1
AKR1C3	LOC151484
unknown	unknown
unknown	OR10G3
unknown	TEX28
ACPL2	LRRC4
AKAP11	LOC284232
AKR1B1	LOC339894
ATG2A	TCP11
CYBRD1	GALNT12
IER3	LOC100293406
PSMB8	unknown
STEAP3	LOC100129652
OCEL1	THSD1
IGSF8	unknown
OBFC1	TMEM87A
EID3	LOC100129900
QPCT	RREB1
C9orf116	MS4A5
C9orf169	unknown
STARD10	COL17A1
RTN2	HORMAD2
MLYCD	C17orf77
CAMK2N2	ZDHC19
C16orf79	LOC100128230
D2HGDH	OAS2
CCBL2	unknown
CABLES1	LOC647343
RNASE4	unknown
APC2	unknown
C1orf97	ACAN
unknown	SPINK5L2
IDS	PLA2G1B
LRRC28	TAS2R19
LOC100289097	LOC441208
ITM2C	BECN1L1
PITPNM1	KIAA1644
MXD4	CXorf36
PACSN3	GPR75
NFATC1	unknown
MAP3K14	REG1B
NES	unknown
C9orf16	C9orf47
LOC100130633	FUT1
C21orf119	unknown
PEX1	IL21
PLD3	OR51D1
TMEM79	NMS
unknown	unknown
TMCO4	unknown
HSD17B7	LOC642635
IL4I1	TRIOBP
SMAD5OS	unknown
GYPC	FLRT1
ELMOD3	LOC100132474
ZNF358	unknown
CYB5D2	unknown
GLTSCR2	unknown
IGSF8	FAM41C
SARM1	PRODH
SPSB3	unknown
C21orf63	LOC648822
unknown	LOC100132972
SERPINA3	unknown
FLJ35220	LOC285000
ALKBH2	PHOX2B
HS1BP3	HIST2H2BA
LOC646808	SMOC2
NES	FGF5
CYHR1	GRIP2
SEPT5	LOC728530
EML2	OR51B2
C1QTNF6	CNTN1
LRRC24	LOC100133500
PSAP	ZNF140
C12orf57	LOC1720
AVP11	NKAIN2
IFITM3	LOC100132733
RER1	ART4
CD68	IGSF1
PHC1	SLC26A3
PRR24	hCG_1793639
ACVRL1	PRODH2
SDR39U1	IL1F9
SLC39A1	MCF2L
ECH1	TPSAB1
SIPA1	LOC100131673
SMARCD3	tcag7.1307
PGAP3	CNOT2
BCKDHA	RAD21L1
CCS	WNT3A
JMY	ERVWE1
LOC100130107	unknown
JUP	C19orf41
unknown	INPP4B
ANGPTL6	ATCAY
CTSL1	ZNF501
GGT5	HBA2

PBXIP1	unknown
VWCE	FAM178A
LOC730183	LOC100131608
CLK1	PLD4
TGFBR3	GPR1
unknown	FAM169A
ZNF395	LOC100130171
AOX1	unknown
SLC36A4	PSMB11
RPAIN	SEMA3D
DFNA5	FAM154B
PLIN2	BMP8A
C20orf108	WHSC1
TNFAIP8	TEX14
C7orf41	NARG1L
C4orf52	MATN3
GNPDA1	unknown
SCARB1	FAM98B
GPX4	HIST2H2BE
GAA	IKZF2
SNORD3B-1	LOC729911
SLC9A9	CACNA1E
CUL7	CXorf67
NFATC4	TRIML2
PIGZ	unknown
PLAU	PRLR
FOS	unknown
CD55	unknown
RPAIN	LOC100292021
MACROD1	ZNF100
GEM	ATPBD4
SYNJ2	tcag7.929
NNMT	CYCSP52
LOC645722	CYP4A22
PTBP2	LOC727918
SBSN	unknown
unknown	C12orf36
EVC2	FMO6P
NEURL4	unknown
PLD2	unknown
unknown	unknown
TMEM42	unknown
RPS23	REG4
MZF1	PPP2R2B
TRPT1	ZNF154
IGF1R	unknown
ZRANB2	LOC400743
ZNF664	GRIA4
DZIP1	ANKRD24
LIPA	unknown
TP53TG1	CACNG2
RB1CC1	GPR32
SNX27	CAV3
C21orf2	PGLYRP3
HDHD2	MYO5B
N4BP2L2	LOC100131320
PDE4A	LOC203510
ZFC3H1	TMPRSS2
LUC7L3	unknown
DRAM2	NCRNA00092
MAP3K10	unknown
NFS1	unknown
METTL7A	C19orf21
EGFL7	HLA-L
FAM20C	unknown
TMEM205	HAO1
ARRB2	CUX2
GLRX	ZNF569
DHRS1	MT1H
TMEM216	OR1L6
DKFZP586K1520	unknown
FAM43A	unknown
TUBA4A	GAD1
NME3	unknown
KREMEN1	ZSCAN1
ANKRD28	RPRML
C16orf58	SLC30A5
LOC100129122	C22orf34
unknown	LOC100131642
KAT2A	ZNF625
ASS1	CLDN16
AOX1	FLJ45482
LUC7L	unknown
FAM82B	LOC653712
GDF11	C12orf27
SSC5D	BMF
SAT1	ALDOB
C21orf57	unknown
AKAP12	HERC6
INTS10	SLC22A24
CYP27A1	ASPA
CRYL1	CEACAM1
NAT14	LOC100128006
SLC27A5	unknown
LOC730098	DSPP
RP11-345P4.4	OR2M2
ACP5	unknown
RNASET2	TAGLN3
ZNF182	LOC388906
OSMR	LOC100129363
TUT1	RGAG1
HMBOX1	unknown
FAM117B	MPV17L
PACS2	HAND1
SOX4	OR10J3
ABCB6	LOC100287919
FBXL18	GUCY2G
CROCCL1	TMEM72

SP9	ZFATAS
IDS	unknown
TMEM8B	LOC150822
RAB27A	ADAMTSL1
FYCO1	LOC644925
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NLGN2	
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DENND4C	
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