

Table S6. The detailed functional analysis results for 257 target genes

#Gene: genes included in each locus.

#Expression in brain (Barres): Barres Human Brain RNA-Seq (only FPKM > 1 was shown; FPKM > 10 signified by \*)

#AD sum: Total number of differential expression from all transcriptome studies of Alzheimer's disease (AD).

#AD Up: Total number of up regulation from all transcriptome studies of AD.

#AD Dn: Total number of down regulation from all transcriptome studies of AD.

#AD Pe: Total number of dys-regulation with unknown direction from all transcriptome studies of AD.

#The highlighted AD\_sum, AD\_Up, AD\_Dn and AD\_Pe indicate Genes up- or downregulated exclusively in two or more studies

#Blood.lowest.p\_eQTL: The lowest eQTL p-value between any SNP and the corresponding gene in whole blood

#Blood.lowest.p\_SMR: The lowest SMR p-value between any SNP and the corresponding gene in whole blood

#Brain.lowest.p\_eQTL: The lowest eQTL p-value between any SNP and the corresponding gene in any brain tissues

#Brain.lowest.p\_SMR: The lowest SMR p-value between any SNP and the corresponding gene in any brain tissues

#Pathway: Nominally significant pathways (p-value<0.05) including the corresponding gene

#Non-APOE locus pathway: Nominally significant pathways (p-value<0.05) including the corresponding gene and not including APOE-locus genes

Gene	Locus	Chr	Expression in brain (Barres)	AD_sum	AD_Up	AD_Dn	AD_Pe	Blood.lowest.p_eQTL	Blood.lowest.p_SMR	Brain.lowest.p_eQTL	Brain.lowest.p_SMR
APOC1	APOE	19	NA	11	11	0	0	NA	NA	0.0130436	0.01714493
APOC1P1	APOE	19	NA	NA	NA	NA	NA	NA	NA	0.0169751	0.0214768
APOC2	APOE	19	NA	3	2	1	0	NA	NA	0.0271157	0.03207496
APOC4	APOE	19	NA	2	1	1	0	NA	NA	0.00309672	0.006630909
APOC4-APOC2	APOE	19	NA	NA	NA	NA	NA	NA	NA	NA	NA
APOE	APOE	19	MatureAstrocytes,FetalAstrocytes	4	4	0	0	NA	NA	0.006062548	0.008965919
BCAM	APOE	19	NA	3	3	0	0	NA	NA	0.0114098	0.01718973
BCL3	APOE	19	NA	5	5	0	0	NA	NA	0.03741179	0.04308533
BLOC1S3	APOE	19	Endothelial	NA	NA	NA	NA	0.02308549	0.02813479	NA	NA
CBLC	APOE	19	NA	0	0	0	0	NA	NA	NA	NA
CD3EAP	APOE	19	NA	NA	NA	NA	NA	0.00216876	0.003192043	0.000291562	0.000849297
CEACAM16	APOE	19	NA	NA	NA	NA	NA	NA	NA	NA	NA
CEACAM19	APOE	19	NA	2	0	2	0	0.02056821	0.02533825	0.0272381	0.03581018
CEACAM20	APOE	19	NA	NA	NA	NA	NA	1	1	NA	NA
CEACAM22P	APOE	19	NA	NA	NA	NA	NA	1	1	NA	NA
CKM	APOE	19	NA	NA	NA	NA	NA	0.0457541	0.05437545	0.0106896	0.01660494
CLASRP	APOE	19	NA	6	6	0	0	0.008379739	0.01403407	0.00332479	0.005458997
CLPTM1	APOE	19	MatureAstrocytes*,FetalAstrocytes,Neurons,Endothelial,Oligodendrocytes,Microglia/Macrophage	7	2	5	0	NA	NA	0.008161097	0.01311337
ERCC1	APOE	19	Microglia/Macrophage*,FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Endothelial	1	0	1	0	1	1	0.003903099	0.006265742
ERCC2	APOE	19	NA	4	0	4	0	0.0285481	0.03387421	0.0131752	0.01725854
EXOC3L2	APOE	19	NA	0	0	0	0	0.00431701	0.008978838	0.0277449	0.03299044
GEMIN7	APOE	19	FetalAstrocytes,Neurons	1	0	1	0	NA	NA	0.0124582	0.01635656
IGSF23	APOE	19	NA	NA	NA	NA	NA	0.0445799	0.05416729	NA	NA
KLC3	APOE	19	NA	NA	NA	NA	NA	0.041254	0.05070623	0.0167149	0.02370563
MARK4	APOE	19	FetalAstrocytes	6	1	5	0	NA	NA	0.0455546	0.05146517
MIR4531	APOE	19	NA	NA	NA	NA	NA	NA	NA	NA	NA
MIR8085	APOE	19	NA	NA	NA	NA	NA	NA	NA	NA	NA
NKPD1	APOE	19	NA	1	1	0	0	0.0253115	0.03445331	0.000293253	0.00156271
PPP1R13L	APOE	19	NA	6	6	0	0	NA	NA	0.04719221	0.05615469
PPP1R37	APOE	19	NA	NA	NA	NA	NA	NA	NA	0.000341028	0.001896521
PVR	APOE	19	NA	NA	NA	NA	NA	NA	NA	0.0129687	0.02099118
PVRL2	APOE	19	Endothelial,FetalAstrocytes,MatureAstrocytes	3	3	0	0	0.0284957	0.03383601	0.009117321	0.01466462
RELB	APOE	19	NA	1	1	0	0	NA	NA	0.0162579	0.02354847
TOMM40	APOE	19	NA	1	0	1	0	NA	NA	0.0172514	0.02153904
TRAPPC6A	APOE	19	NA	6	0	6	0	NA	NA	0.0117093	0.01889504
ZNF180	APOE	19	FetalAstrocytes,Neurons	1	1	0	0	NA	NA	0.000224494	0.001364411
ZNF229	APOE	19	NA	NA	NA	NA	NA	NA	NA	0.009165888	0.01263481
ZNF296	APOE	19	NA	2	1	1	0	NA	NA	0.00121543	0.003835691
ADCY8	ADCY8,EFR3A	8	MatureAstrocytes,Neurons	2	1	1	0	NA	NA	0.003887251	0.01794854
EFR3A	ADCY8,EFR3A	8	Neurons*,FetalAstrocytes,MatureAstrocytes,Oligodendrocytes,Microglia/Macrophage,Endothelial	1	1	0	0	NA	NA	0.02375819	0.04567933
7SK	ADCY8,EFR3A	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
RAP2B	RAP2B,C3orf79	3	Microglia/Macrophage,Neurons,FetalAstrocytes,Oligodendrocytes,MatureAstrocytes	1	1	0	0	NA	NA	0.003429461	0.02490314
C3orf79	RAP2B,C3orf79	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
AK092619ARHGEF26	RAP2B,C3orf79	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARHGEF26-AS1	RAP2B,C3orf79	3	MatureAstrocytes,Neurons	NA	NA	NA	NA	NA	NA	0.009571812	0.05225144



KRTAP10-9	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KRTAP12-1	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KRTAP12-2	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KRTAP12-3	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KRTAP12-4	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LOC284837	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LRRC3	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	0.00278988	0.01670277	
LRRC3-AS1	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	0.01305419	0.0425205	
PDXK	C21orf33,ICOSLG	21	MatureAstrocytes,Neurons,Endothelial	5	3	2	0	NA	NA	NA	NA	NA
PFKL	C21orf33,ICOSLG	21	FetalAstrocytes	NA	NA	NA	NA	NA	NA	0.03995329	0.07600761	
PWP2	C21orf33,ICOSLG	21	NA	1	1	0	0	NA	NA	NA	NA	NA
RRP1	C21orf33,ICOSLG	21	FetalAstrocytes	NA	NA	NA	NA	NA	NA	0.005592472	0.02326094	
TRAPPC10	C21orf33,ICOSLG	21	Microglia/Macrophage,Neurons,Oligodendrocytes,FetalAstrocytes,MatureAstrocytes	NA	NA	NA	NA	NA	NA	0.0186256	0.04433238	
TRPM2	C21orf33,ICOSLG	21	NA	2	0	2	0	NA	NA	NA	NA	NA
TRPM2-AS	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSPEAR	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	0.0276463	0.1173633	NA	NA	NA
TSPEAR-AS1	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	0.03589631	0.06506584	
HSF2BP	C21orf33,ICOSLG	21	NA	1	1	0	0	0.03786589	0.1188581	0.0138905	0.03622745	
RRP1B	C21orf33,ICOSLG	21	FetalAstrocytes,Neurons,Endothelial	1	1	0	0	0.0429562	0.06843161	0.006256578	0.02551044	
UBE2G2	C21orf33,ICOSLG	21	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	NA	NA	NA	NA	NA	NA	0.0101961	0.03228033	
C21orf67	C21orf33,ICOSLG	21	NA	NA	NA	NA	NA	NA	NA	0.009335018	0.02971858	
LINC00971	LINC00971	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADM2	LINC00971	3	MatureAstrocytes*,Neurons*,Oligodendrocytes*,FetalAstrocytes,Endothelial	5	0	5	0	NA	NA	0.001500799	0.009292013	
SLITRK1	SLITRK1	13	Neurons,Oligodendrocytes	5	1	4	0	NA	NA	0.0212201	0.06841025	
LINC00333	SLITRK1	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2orf80	C2orf80,IDH1	2	Neurons*,Oligodendrocytes	12	0	12	0	NA	NA	0.00241572	0.02103459	
CCNYL1	C2orf80,IDH1	2	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	1	1	0	0	NA	NA	0.0181751	0.05618972	
CRYGA	C2orf80,IDH1	2	NA	1	1	0	0	NA	NA	NA	NA	NA
CRYGB	C2orf80,IDH1	2	NA	1	0	1	0	NA	NA	NA	NA	NA
CRYGC	C2orf80,IDH1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CRYGD	C2orf80,IDH1	2	FetalAstrocytes	1	1	0	0	NA	NA	0.0161334	0.05750588	
FZD5	C2orf80,IDH1	2	FetalAstrocytes	3	3	0	0	NA	NA	0.0309839	0.06655298	
IDH1	C2orf80,IDH1	2	FetalAstrocytes,Microglia/Macrophage,MatureAstrocytes,Oligodendrocytes,Neurons	2	0	2	0	NA	NA	0.007434959	0.03330903	
IDH1-AS1	C2orf80,IDH1	2	NA	NA	NA	NA	NA	NA	NA	6.48868E-05	0.008377588	
JA429503	C2orf80,IDH1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LOC100507443	C2orf80,IDH1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MIR4775	C2orf80,IDH1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mir_548	C2orf80,IDH1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PIKFYVE	C2orf80,IDH1	2	MatureAstrocytes,Neurons,FetalAstrocytes,Microglia/Macrophage,Oligodendrocytes,Endothelial	2	1	1	0	0.00232473	0.02237377	0.002468939	0.02265926	
PLEKHM3	C2orf80,IDH1	2	Neurons,Oligodendrocytes,MatureAstrocytes,Microglia/Macrophage,Endothelial,FetalAstrocytes	1	0	1	0	NA	NA	0.0103876	0.02991419	
PTH2R	C2orf80,IDH1	2	Neurons	4	0	4	0	NA	NA	0.008929127	0.03633748	
ALG3	MAGEF1,LOC101928992	3	FetalAstrocytes,MatureAstrocytes	NA	NA	NA	NA	NA	NA	0.02722891	0.06037791	
C3orf70	MAGEF1,LOC101928992	3	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage	0	0	0	0	NA	NA	0.04598209	0.06679984	
CAMK2N2	MAGEF1,LOC101928992	3	Neurons,Endothelial	NA	NA	NA	NA	NA	NA	0.01059	0.03614694	
CHRD	MAGEF1,LOC101928992	3	NA	1	0	1	0	0.0115377	0.02654106	0.0425987	0.09908303	
CLCN2	MAGEF1,LOC101928992	3	NA	2	1	1	0	NA	NA	NA	NA	NA
ECE2	MAGEF1,LOC101928992	3	Neurons	3	2	1	0	NA	NA	NA	NA	NA
EHHADH	MAGEF1,LOC101928992	3	MatureAstrocytes	NA	NA	NA	NA	NA	NA	0.009567481	0.03414038	
EHHADH-AS1	MAGEF1,LOC101928992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EIF4G1	MAGEF1,LOC101928992	3	FetalAstrocytes*,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	NA	NA	NA	NA	NA	NA	0.0101147	0.03504143	
EPHB3	MAGEF1,LOC101928992	3	FetalAstrocytes	2	0	2	0	0.04061578	0.0756772	0.003739471	0.02437574	
FAM131A	MAGEF1,LOC101928992	3	FetalAstrocytes,Neurons	9	1	7	1	NA	NA	0.02383299	0.04874397	
LOC101928992	MAGEF1,LOC101928992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MAGEF1	MAGEF1,LOC101928992	3	Neurons*,FetalAstrocytes,MatureAstrocytes,Oligodendrocytes,Endothelial,Microglia/Macrophage	6	0	6	0	NA	NA	NA	NA	NA
POLR2H	MAGEF1,LOC101928992	3	FetalAstrocytes*,MatureAstrocytes*,Neurons*,Microglia/Macrophage*,Endothelial*,Oligodendrocytes	1	1	0	0	NA	NA	0.0381033	0.09415976	
PSMD2	MAGEF1,LOC101928992	3	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	1	1	0	0	NA	NA	NA	NA	NA
SNORD66	MAGEF1,LOC101928992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THPO	MAGEF1,LOC101928992	3	NA	NA	NA	NA	NA	NA	NA	0.04540571	0.1020861	
TRNA_Asp	MAGEF1,LOC101928992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPS8	MAGEF1,LOC101928992	3	Neurons,MatureAstrocytes,Oligodendrocytes,Microglia/Macrophage,FetalAstrocytes,Endothelial	NA	NA	NA	NA	NA	NA	0.00692571	0.03586173	
VWA5B2	MAGEF1,LOC101928992	3	NA	4	0	4	0	NA	NA	NA	NA	NA
MIR1224	MAGEF1,LOC101928992	3	NA	NA	NA	NA	NA	NA	NA	0.04368899	0.06436506	

PARL	MAGEF1,LOC101928992	3	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	4	3	1	0	0.02424359	0.05466969	0.0155895	0.03082056
ABCC5	MAGEF1,LOC101928992	3	Neurons*,FetalAstrocytes,MatureAstrocytes,Oligodendrocytes,Microglia/Macrophage	3	0	3	0	NA	NA	0.003625709	0.01287403
MIR4801	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
NWD2	HTN1	4	Neurons	NA	NA	NA	NA	NA	NA	NA	NA
ARAP2	HTN1	4	MatureAstrocytes*,Oligodendrocytes*,FetalAstrocytes,Neurons,Microglia/Macrophage	3	0	3	0	NA	NA	0.002682461	0.01363795
DTHD1	HTN1	4	FetalAstrocytes	NA	NA	NA	NA	NA	NA	0.011436	0.0297504
AMTN	HTN1	4	Microglia/Macrophage	NA	NA	NA	NA	NA	NA	NA	NA
C4orf40	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
CABS1	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
CSN1S1	HTN1	4	NA	2	0	1	1	NA	NA	0.02970931	0.09818479
CSN1S2AP	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
CSN1S2BP	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
CSN2	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
CSN3	HTN1	4	NA	1	0	1	0	NA	NA	NA	NA
FDCSP	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
HTN1	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
HTN3	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
MUC7	HTN1	4	NA	NA	NA	NA	NA	NA	NA	0.006008013	0.05867084
ODAM	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
PROL1	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
PRR27	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
SMR3A	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
SMR3B	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
STATH	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULT1B1	HTN1	4	NA	3	0	3	0	NA	NA	0.000464812	0.0194774
SULT1E1	HTN1	4	NA	3	0	3	0	NA	NA	NA	NA
UGT2A1	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
UGT2A2	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
CRSF1	HTN1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
UTP3	HTN1	4	FetalAstrocytes*,Neurons*,Microglia/Macrophage*,MatureAstrocytes,Oligodendrocytes,Endothelial	6	0	6	0	NA	NA	0.002628832	0.03170488
DCK	HTN1	4	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage	6	0	6	0	NA	NA	0.00151667	0.01583722
MOB1B	HTN1	4	Microglia/Macrophage*,FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Endothelial	1	1	0	0	0.01038139	0.04639694	0.0113066	0.04960198
ATP5B	HSD17B6,SDR9C7	12	Neurons*,MatureAstrocytes*,Microglia/Macrophage*,Oligodendrocytes*,FetalAstrocytes*,Endothelial*	15	1	14	0	NA	NA	0.005917163	0.05103623
BAZ2A	HSD17B6,SDR9C7	12	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	4	0	4	0	NA	NA	0.0177892	0.06174366
BC059370	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
DQ590166	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
GLS2	HSD17B6,SDR9C7	12	Neurons	9	0	8	1	0.003593591	0.03804135	0.02022129	0.155425
GPR182	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	0.03018812	0.4587216
HSD17B6	HSD17B6,SDR9C7	12	MatureAstrocytes*,Neurons,Oligodendrocytes	5	2	3	0	NA	NA	0.00167252	0.1325787
KIAA1002	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
LRP1	HSD17B6,SDR9C7	12	MatureAstrocytes,FetalAstrocytes,Microglia/Macrophage,Endothelial	0	0	0	0	NA	NA	0.03310618	0.1454531
MIP	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	0.00222475	0.07998036
MIR1228	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
MYO1A	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	0.01856491	0.04974075
NAB2	HSD17B6,SDR9C7	12	Microglia/Macrophage,FetalAstrocytes	2	2	0	0	0.005663729	0.03188447	0.0072254	0.03216068
NACA	HSD17B6,SDR9C7	12	Oligodendrocytes*,Microglia/Macrophage*,Neurons*,FetalAstrocytes*,MatureAstrocytes*,Endothelial*	4	1	3	0	NA	NA	0.0373797	0.4372618
NDUFA4L2	HSD17B6,SDR9C7	12	Endothelial	5	4	1	0	NA	NA	NA	NA
NXP4	HSD17B6,SDR9C7	12	NA	3	3	0	0	NA	NA	0.0131798	0.186454
PRIM1	HSD17B6,SDR9C7	12	FetalAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,MatureAstrocytes	NA	NA	NA	NA	NA	NA	0.000173519	0.02701317
PTGES3	HSD17B6,SDR9C7	12	Neurons*,Oligodendrocytes*,Microglia/Macrophage*,FetalAstrocytes*,MatureAstrocytes,Endothelial	4	1	3	0	NA	NA	0.0105087	0.03789839
R3HDM2	HSD17B6,SDR9C7	12	FetalAstrocytes*,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	2	2	0	0	0.03188409	0.4578529	0.02750749	0.2142083
RBMS2	HSD17B6,SDR9C7	12	FetalAstrocytes,MatureAstrocytes,Microglia/Macrophage,Endothelial	1	1	0	0	NA	NA	0.003147581	0.2007427
RDH16	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	0.0377466	0.1503	0.003579018	0.05337248
SDR9C7	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	0.0143727	0.179096
SHMT2	HSD17B6,SDR9C7	12	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Endothelial	4	4	0	0	NA	NA	0.03435319	0.1935344
SNORD59A	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
SNORD59B	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPRYD4	HSD17B6,SDR9C7	12	FetalAstrocytes,MatureAstrocytes,Oligodendrocytes,Microglia/Macrophage	3	3	0	0	NA	NA	0.0150504	0.1424193
STAC3	HSD17B6,SDR9C7	12	NA	NA	NA	NA	NA	NA	NA	0.008508203	0.08124034
STAT6	HSD17B6,SDR9C7	12	Microglia/Macrophage,Endothelial,MatureAstrocytes	6	2	4	0	NA	NA	NA	NA
TAC3	HSD17B6,SDR9C7	12	Neurons*,Endothelial	4	0	4	0	NA	NA	0.002849189	0.06458654
TIMELESS	HSD17B6,SDR9C7	12	FetalAstrocytes	2	0	2	0	NA	NA	0.0136564	0.1715554

TMEM194A	HSD17B6,SDR9C7	12	Microglia/Macrophage,FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes	2	1	1	0	NA	NA	0.000149217	0.01542551
ZBTB39	HSD17B6,SDR9C7	12	FetalAstrocytes	NA	NA	NA	NA	0.0422855	0.3672971	0.0119194	0.07581507
LPHN2	LPHN2	1	Neurons*,FetalAstrocytes,Endothelial	3	2	1	0	NA	NA	0.006424668	0.02142006
ADI1	LINC01250	2	MatureAstrocytes*,FetalAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	2	1	1	0	NA	NA	0.0177489	0.05635992
LINC01250	LINC01250	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
RNASEH1	LINC01250	2	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage	4	4	0	0	NA	NA	0.005677189	0.04091087
TRAPPC12	LINC01250	2	FetalAstrocytes,MatureAstrocytes	3	0	3	0	NA	NA	0.011023	0.03879543
TSSC1	LINC01250	2	Neurons,FetalAstrocytes,MatureAstrocytes	3	3	0	0	NA	NA	0.03781211	0.07000966
ALLC	LINC01250	2	NA	2	0	2	0	NA	NA	0.00472295	0.03261152
RPS7	LINC01250	2	FetalAstrocytes*,MatureAstrocytes,Oligodendrocytes,Microglia/Macrophage,Endothelial	NA	NA	NA	NA	NA	NA	0.002261259	0.02001135
ATP6V1C2	KCNF1,FLJ33534	2	FetalAstrocytes	NA	NA	NA	NA	NA	NA	0.006346192	0.02715962
AX746649	KCNF1,FLJ33534	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2orf50	KCNF1,FLJ33534	2	FetalAstrocytes	2	1	1	0	NA	NA	0.0170999	0.03847193
E2F6	KCNF1,FLJ33534	2	MatureAstrocytes*,FetalAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage	1	1	0	0	NA	NA	0.000629197	0.008209331
FLJ33534	KCNF1,FLJ33534	2	NA	3	2	0	1	NA	NA	NA	NA
KCNF1	KCNF1,FLJ33534	2	NA	10	0	10	0	NA	NA	0.008151703	0.05394396
LINC00570	KCNF1,FLJ33534	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
LOC101929733	KCNF1,FLJ33534	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
NOL10	KCNF1,FLJ33534	2	FetalAstrocytes,MatureAstrocytes,Neurons,Oligodendrocytes,Microglia/Macrophage,Endothelial	NA	NA	NA	NA	NA	NA	0.003228419	0.0203919
PDIA6	KCNF1,FLJ33534	2	Neurons*,MatureAstrocytes*,FetalAstrocytes*,Oligodendrocytes*,Microglia/Macrophage*,Endothelial	7	5	2	0	NA	NA	0.03240921	0.06292947
PQLC3	KCNF1,FLJ33534	2	Microglia/Macrophage,Endothelial,Oligodendrocytes,MatureAstrocytes,FetalAstrocytes,Neurons	0	0	0	0	NA	NA	0.0234169	0.05759389
ROCK2	KCNF1,FLJ33534	2	Neurons*,FetalAstrocytes*,Microglia/Macrophage,MatureAstrocytes,Endothelial,Oligodendrocytes	7	2	5	0	NA	NA	0.00831231	0.02576358
CYS1	KCNF1,FLJ33534	2	NA	3	0	3	0	NA	NA	0.02816689	0.05212099
PRM2	KCNF1,FLJ33534	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
NTS2R	KCNF1,FLJ33534	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
GREB1	KCNF1,FLJ33534	2	MatureAstrocytes,Neurons	4	3	1	0	NA	NA	0.013131	0.03305501

Gene	Locus	Chr	Pathway	Non-APOE locus pathway
APOC1	APOE	19	GO_NEGATIVE_REGULATION_OF_LIPID_METABOLIC_PROCESS GO_ORGANOPHOSPHATE_ESTER_TRANSPORT GO_REGULATION_OF_RECEPTOR_MEDIATED_ENDOCYTOSIS GO_NEGATIVE_REGULATION_OF_LIPID_TRANSPORT GO_PHOSPHOLIPID_TRANSPORT GO_NEGATIVE_REGULATION_OF_STEROL_TRANSPORT GO_PHOSPHOLIPID_EFFLUX	NA
APOC1P1	APOE	19	NA	NA
APOC2	APOE	19	GO_NEGATIVE_REGULATION_OF_LIPID_METABOLIC_PROCESS GO_ORGANOPHOSPHATE_ESTER_TRANSPORT GO_REGULATION_OF_RECEPTOR_MEDIATED_ENDOCYTOSIS GO_NEGATIVE_REGULATION_OF_LIPID_TRANSPORT GO_PHOSPHOLIPID_TRANSPORT GO_NEGATIVE_REGULATION_OF_STEROL_TRANSPORT GO_PHOSPHOLIPID_EFFLUX	NA
APOC4	APOE	19	NA	NA
APOC4-APOC2	APOE	19	NA	NA
APOE	APOE	19	GO_NEGATIVE_REGULATION_OF_LIPID_METABOLIC_PROCESS GO_REGULATION_OF_DEVELOPMENTAL_GROWTH GO_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION GO_MODULATION_BY_HOST_OF_VIRAL_PROCESS GO_REGULATION_OF_GROWTH GO_ORGANOPHOSPHATE_ESTER_TRANSPORT GO_ORGANIC_HYDROXY_COMPOUND_CATABOLIC_PROCESS GO_MAINTENANCE_OF_LOCATION_IN_CELL GO_REGULATION_OF_CELL_GROWTH GO_NEGATIVE_REGULATION_OF_LIPID_TRANSPORT GO_PHOSPHOLIPID_TRANSPORT GO_POSITIVE_REGULATION_OF_PROTEOLYSIS GO_NEGATIVE_REGULATION_OF_STEROL_TRANSPORT GO_REGULATION_OF_EXTENT_OF_CELL_GROWTH GO_REGULATION_OF_PROTEOLYSIS GO_PHOSPHOLIPID_EFFLUX GO_ALCOHOL_CATABOLIC_PROCESS GO_RECEPTOR_CLUSTERING GO_BETA_AMYLOID_BINDING	NA
BCAM	APOE	19	NA	NA
BCL3	APOE	19	GO_MAINTENANCE_OF_LOCATION_IN_CELL GO_SIGNAL_TRANSDUCTION_IN_RESPONSE_TO_DNA_DAMAGE GO_RESPONSE_TO_PROTOZOAN GO_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT GO_REGULATION_OF_PROTEIN_TARGETING	NA
BLOC1S3	APOE	19	GO_SYNAPTIC_VESICLE_LOCALIZATION GO_VESICLE_LOCALIZATION GO_CYTOSOLIC_TRANSPORT	NA
CBLC	APOE	19	GO_REGULATION_OF_PROTEIN_TYROSINE_KINASE_ACTIVITY	NA
CD3EAP	APOE	19	NA	NA
CEACAM16	APOE	19	GO_ACTIN_BASED_CELL_PROJECTION	NA
CEACAM19	APOE	19	NA	NA
CEACAM20	APOE	19	NA	NA
CEACAM22P	APOE	19	NA	NA
CKM	APOE	19	NA	NA
CLASRP	APOE	19	NA	NA
CLPTM1	APOE	19	NA	NA
ERCC1	APOE	19	GO_GROWTH GO_CELL_AGING GO_DEVELOPMENTAL_GROWTH	NA
ERCC2	APOE	19	GO_EPITHELIUM_DEVELOPMENT GO_GROWTH GO_DEVELOPMENTAL_GROWTH GO_METAL_CLUSTER_BINDING GO_4_IRON_4_SULFUR_CLUSTER_BINDING	NA
EXOC3L2	APOE	19	NA	NA
GEMIN7	APOE	19	NA	NA
IGSF23	APOE	19	NA	NA
KLC3	APOE	19	NA	NA
MARK4	APOE	19	NA	NA
MIR4531	APOE	19	NA	NA

MIR8085	APOE	19	NA	NA
NKPD1	APOE	19	NA	NA
PPP1R13L	APOE	19	GO_HEART_MORPHOGENESIS GO_GROWTH GO_DEVELOPMENTAL_GROWTH	NA
PPP1R37	APOE	19	NA	NA
PVR	APOE	19	NA	NA
PVRL2	APOE	19	GO_MITOCHONDRION_ORGANIZATION GO_MITOCHONDRION_LOCALIZATION	NA
REL8	APOE	19	NA	NA
TOMM40	APOE	19	GO_MITOCHONDRION_ORGANIZATION GO_INTRINSIC_COMPONENT_OF_ORGANELLE_MEMBRANE GO_PORE_COMPLEX GO_MITOCHONDRIAL_MEMBRANE_PART	NA
TRAPPC6A	APOE	19	GO_VESICLE_LOCALIZATION	NA
ZNF180	APOE	19	NA	NA
ZNF229	APOE	19	NA	NA
ZNF296	APOE	19	NA	NA
ADCY8	ADCY8, EFR3A	8	GO_ADENYLATE_CYCLASE_ACTIVATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	GO_ADENYLATE_CYCLASE_ACTIVATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY
EFR3A	ADCY8, EFR3A	8	NA	NA
7SK	ADCY8, EFR3A	8	NA	NA
RAP2B	RAP2B, C3orf79	3	GO_REGULATION_OF_PROTEIN_TYROSINE_KINASE_ACTIVITY GO_EPITHELIUM_DEVELOPMENT GO_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION GO_GDP_BINDING	GO_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION
C3orf79	RAP2B, C3orf79	3	NA	NA
AK092619ARHGFE26	RAP2B, C3orf79	3	NA	NA
ARHGFE26-AS1	RAP2B, C3orf79	3	NA	NA
DHX36	RAP2B, C3orf79	3	NA	NA
AK091624	DAPK2	15	NA	NA
AL137522	DAPK2	15	NA	NA
CSNK1G1	DAPK2	15	GO_PROTEIN_AUTOPHOSPHORYLATION	GO_PROTEIN_AUTOPHOSPHORYLATION
DAPK2	DAPK2	15	GO_PROTEIN_AUTOPHOSPHORYLATION GO_REGULATION_OF_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY GO_REGULATION_OF_APOPTOTIC_SIGNALING_PATHWAY	GO_PROTEIN_AUTOPHOSPHORYLATION
FAM96A	DAPK2	15	NA	NA
FBXL22	DAPK2	15	NA	NA
HERC1	DAPK2	15	NA	NA
KIAA0101	DAPK2	15	NA	NA
LOC101928988	DAPK2	15	NA	NA
Mir_422	DAPK2	15	NA	NA
PPIB	DAPK2	15	GO_REGULATION_OF_DEVELOPMENTAL_GROWTH GO_MODULATION_BY_HOST_OF_VIRAL_PROCESS GO_REGULATION_OF_GROWTH	NA
SNX1	DAPK2	15	GO_PROTEIN_LOCALIZATION_TO_CYTOSKELETON GO_PROTEIN_LOCALIZATION_TO_CENTROSOME GO_ORGANIC_HYDROXY_COMPOUND_CATABOLIC_PROCESS GO_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION GO_REGULATION_OF_PROTEOLYSIS GO_ALCOHOL_CATABOLIC_PROCESS GO_CYTOSOLIC_TRANSPORT GO_EXTRINSIC_COMPONENT_OF_PLASMA_MEMBRANE	NA
SNX22	DAPK2	15	NA	NA
TRIP4	DAPK2	15	GO_TRANSCRIPTION_COACTIVATOR_ACTIVITY	GO_TRANSCRIPTION_COACTIVATOR_ACTIVITY
USP3	DAPK2	15	GO_CHROMATIN_MODIFICATION	GO_CHROMATIN_MODIFICATION
USP3-AS1	DAPK2	15	NA	NA
LACTB	DAPK2	15	NA	NA
RPS27L	DAPK2	15	GO_G1_DNA_DAMAGE_CHECKPOINT GO_POSITIVE_REGULATION_OF_PEPTIDASE_ACTIVITY GO_MITOTIC_DNA_INTEGRITY_CHECKPOINT GO_MITOTIC_CELL_CYCLE_CHECKPOINT GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_PHASE_TRANSITION GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_G1_S_PHASE_TRANSITION GO_REGULATION_OF_CYSSTEINE_TYPE_ENDOPEPTIDASE_ACTIVITY GO_POSITIVE_REGULATION_OF_PROTEOLYSIS GO_DNA_INTEGRITY_CHECKPOINT GO_CELL_CYCLE_CHECKPOINT GO_REGULATION_OF_PROTEOLYSIS GO_PEPTIDASE_ACTIVATOR_ACTIVITY	GO_G1_DNA_DAMAGE_CHECKPOINT GO_POSITIVE_REGULATION_OF_PEPTIDASE_ACTIVITY GO_MITOTIC_DNA_INTEGRITY_CHECKPOINT GO_MITOTIC_CELL_CYCLE_CHECKPOINT GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_PHASE_TRANSITION GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_G1_S_PHASE_TRANSITION GO_REGULATION_OF_CYSSTEINE_TYPE_ENDOPEPTIDASE_ACTIVITY GO_DNA_INTEGRITY_CHECKPOINT GO_CELL_CYCLE_CHECKPOINT GO_PEPTIDASE_ACTIVATOR_ACTIVITY

RAB8B	DAPK2	15	GO_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	GO_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION
			GO_GTPASE_ACTIVITY	GO_GTPASE_ACTIVITY
			GO_GDP_BINDING	GO_GDP_BINDING
ZNF609	DAPK2	15	NA	NA
PLEKHO2	DAPK2	15	NA	NA
ANKDD1A	DAPK2	15	NA	NA
CYP4V2	CYP4V2	4	GO_OXIDOREDUCTASE_ACTIVITY	GO_OXIDOREDUCTASE_ACTIVITY
F11	CYP4V2	4	NA	NA
F11-AS1	CYP4V2	4	NA	NA
FAM149A	CYP4V2	4	NA	NA
FAT1	CYP4V2	4	GO_ACTIN_BASED_CELL_PROJECTION	NA
FLJ38576	CYP4V2	4	NA	NA
KLKB1	CYP4V2	4	GO_POSITIVE_REGULATION_OF_PROTEOLYSIS	NA
			GO_REGULATION_OF_PROTEOLYSIS	
LOC285441	CYP4V2	4	NA	NA
MTNR1A	CYP4V2	4	GO_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION	GO_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION
SORSB2	CYP4V2	4	GO_CARDIAC_MUSCLE_CELL_DIFFERENTIATION	GO_CARDIAC_MUSCLE_CELL_DIFFERENTIATION
			GO_GROWTH	
			GO_CARDIOCYTE_DIFFERENTIATION	
			GO_DEVELOPMENTAL_CELL_GROWTH	
			GO_DEVELOPMENTAL_GROWTH	
TLR3	CYP4V2	4	GO_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY	GO_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY
			GO_RESPONSE_TO_INTERFERON_BETA	
			GO_POSITIVE_REGULATION_OF_NF_KAPPAB_TRANSCRIPTION_FACTOR_ACTIVITY	
			GO_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT	
			GO_POSITIVE_REGULATION_OF_SEQUENCE_SPECIFIC_DNA_BINDING_TRANSCRIPTION_FACTOR_ACTIVITY	
			GO_CELLULAR_RESPONSE_TO_DSRNA	
			GO_REGULATION_OF_SEQUENCE_SPECIFIC_DNA_BINDING_TRANSCRIPTION_FACTOR_ACTIVITY	
			GO_CELLULAR_RESPONSE_TO_INTERFERON_BETA	
			GO_REGULATION_OF_PROTEIN_TARGETING	
U4	CYP4V2	4	NA	NA
U6	CYP4V2	4	NA	NA
UNQ2560	CYP4V2	4	NA	NA
C4orf47	CYP4V2	4	NA	NA
AGPAT3	C21orf33,ICOSLG	21	NA	NA
AIRE	C21orf33,ICOSLG	21	NA	NA
C21orf2	C21orf33,ICOSLG	21	NA	NA
C21orf33	C21orf33,ICOSLG	21	NA	NA
C21orf90	C21orf33,ICOSLG	21	NA	NA
CSTB	C21orf33,ICOSLG	21	GO_REGULATION_OF_PROTEOLYSIS	NA
DNMT3L	C21orf33,ICOSLG	21	NA	NA
DQ588725	C21orf33,ICOSLG	21	NA	NA
DQ590668	C21orf33,ICOSLG	21	NA	NA
DQ598454	C21orf33,ICOSLG	21	NA	NA
DQ599834	C21orf33,ICOSLG	21	NA	NA
DQ601137	C21orf33,ICOSLG	21	NA	NA
ICOSLG	C21orf33,ICOSLG	21	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
KRTAP10-1	C21orf33,ICOSLG	21	NA	NA
KRTAP10-10	C21orf33,ICOSLG	21	NA	NA
KRTAP10-11	C21orf33,ICOSLG	21	NA	NA
KRTAP10-12	C21orf33,ICOSLG	21	NA	NA
KRTAP10-2	C21orf33,ICOSLG	21	NA	NA
KRTAP10-3	C21orf33,ICOSLG	21	NA	NA
KRTAP10-4	C21orf33,ICOSLG	21	NA	NA
KRTAP10-5	C21orf33,ICOSLG	21	NA	NA
KRTAP10-6	C21orf33,ICOSLG	21	NA	NA
KRTAP10-7	C21orf33,ICOSLG	21	NA	NA
KRTAP10-8	C21orf33,ICOSLG	21	NA	NA
KRTAP10-9	C21orf33,ICOSLG	21	NA	NA
KRTAP12-1	C21orf33,ICOSLG	21	NA	NA
KRTAP12-2	C21orf33,ICOSLG	21	NA	NA
KRTAP12-3	C21orf33,ICOSLG	21	NA	NA
KRTAP12-4	C21orf33,ICOSLG	21	NA	NA
LOC284837	C21orf33,ICOSLG	21	NA	NA
LRRC3	C21orf33,ICOSLG	21	NA	NA
LRRC3-AS1	C21orf33,ICOSLG	21	NA	NA
PDXK	C21orf33,ICOSLG	21	NA	NA
PFKL	C21orf33,ICOSLG	21	GO_PROTEIN_HOMOTETRAMERIZATION	GO_PROTEIN_HOMOTETRAMERIZATION
			GO_NAD_METABOLIC_PROCESS	



			GO_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION	
			GO_NUCLEOSIDE_TRIPHOSPHATE_METABOLIC_PROCESS	
			GO_NADH_METABOLIC_PROCESS	
			GO_PROTEIN_HOMOOLIGOMERIZATION	
			GO_GLUCOSE_CATABOLIC_PROCESS	
			KEGG_GLYCOLYSIS_GLUconeogenesis	
			Biocarta_GLYCOLYSIS_PATHWAY	
PWP2	C21orf33,ICOSLG	21	NA	NA
RRP1	C21orf33,ICOSLG	21	NA	NA
TRAPPC10	C21orf33,ICOSLG	21	GO_VESICLE_LOCALIZATION	NA
			GO_CYTOSOLIC_TRANSPORT	
TRPM2	C21orf33,ICOSLG	21	NA	NA
TRPM2-AS	C21orf33,ICOSLG	21	NA	NA
TSPEAR	C21orf33,ICOSLG	21	GO_ACTIN_BASED_CELL_PROJECTION	NA
TSPEAR-AS1	C21orf33,ICOSLG	21	NA	NA
HSF2BP	C21orf33,ICOSLG	21	GO_MITOCHONDRION_ORGANIZATION	NA
RRP1B	C21orf33,ICOSLG	21	NA	NA
UBE2G2	C21orf33,ICOSLG	21	GO_RESPONSE_TO_INTERFERON_BETA	GO_RESPONSE_TO_INTERFERON_BETA
			GO_NEGATIVE_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT	GO_NEGATIVE_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT
			GO_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION	GO_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION
			GO_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT	GO_CELLULAR_RESPONSE_TO_INTERFERON_BETA
			GO_CELLULAR_RESPONSE_TO_INTERFERON_BETA	KEGG_PARKINSONS_DISEASE
C21orf67	C21orf33,ICOSLG	21	NA	NA
LINC00971	LINC00971	3	NA	NA
CADM2	LINC00971	3	NA	NA
SLITRK1	SLITRK1	13	GO_NEURON_PROJECTION_MORPHOGENESIS	GO_NEURON_PROJECTION_MORPHOGENESIS
			GO_GROWTH	
			GO_DEVELOPMENTAL_GROWTH	
LINC00333	SLITRK1	13	NA	NA
C2orf80	C2orf80,IDH1	2	NA	NA
CCNYL1	C2orf80,IDH1	2	NA	NA
CRYGA	C2orf80,IDH1	2	NA	NA
CRYGB	C2orf80,IDH1	2	GO_EPITHELIUM_DEVELOPMENT	NA
CRYGC	C2orf80,IDH1	2	NA	NA
CRYGD	C2orf80,IDH1	2	GO_EPITHELIUM_DEVELOPMENT	NA
FZD5	C2orf80,IDH1	2	GO_EPITHELIUM_DEVELOPMENT	GO_MACROMOLECULAR_COMPLEX_DISASSEMBLY
			GO_MACROMOLECULAR_COMPLEX_DISASSEMBLY	GO_CANONICAL_WNT_SIGNALING_PATHWAY
			GO_CANONICAL_WNT_SIGNALING_PATHWAY	GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION
			GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	GO_PATTERN_SPECIFICATION_PROCESS
			GO_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT	GO_REGIONALIZATION
			GO_PATTERN_SPECIFICATION_PROCESS	KEGG_BASAL_CELL_CARCINOMA
			GO_REGIONALIZATION	
			GO_REGULATION_OF_PROTEIN_TARGETING	
			GO_BETA_AMYLOID_BINDING	
			KEGG_BASAL_CELL_CARCINOMA	
IDH1	C2orf80,IDH1	2	GO_OXIDOREDUCTASE_ACTIVITY	GO_OXIDOREDUCTASE_ACTIVITY
IDH1-AS1	C2orf80,IDH1	2	NA	NA
JA429503	C2orf80,IDH1	2	NA	NA
LOC100507443	C2orf80,IDH1	2	NA	NA
MIR4775	C2orf80,IDH1	2	NA	NA
Mir_548	C2orf80,IDH1	2	NA	NA
PIKFYVE	C2orf80,IDH1	2	GO_REGULATION_OF_VACUOLE_ORGANIZATION	GO_REGULATION_OF_VACUOLE_ORGANIZATION
			GO_CYTOSOLIC_TRANSPORT	
			GO_PHOSPHATIDYLINOSITOL_PHOSPHATASE_ACTIVITY	
			GO_PHOSPHATIDYLINOSITOL_PHOSPHATE_5_PHOSPHATASE_ACTIVITY	
			KEGG_INOSITOL_PHOSPHATE_METABOLISM	
			REACTOME_PI_METABOLISM	
PLEKHM3	C2orf80,IDH1	2	NA	NA
PTH2R	C2orf80,IDH1	2	NA	NA
ALG3	MAGEF1,LOC10192899	3	NA	NA
C3orf70	MAGEF1,LOC10192899	3	NA	NA
CAMK2N2	MAGEF1,LOC10192899	3	NA	NA
CHR1	MAGEF1,LOC10192899	3	GO_EPITHELIUM_DEVELOPMENT	GO_PATTERN_SPECIFICATION_PROCESS
			GO_PATTERN_SPECIFICATION_PROCESS	GO_REGIONALIZATION
			GO_REGIONALIZATION	
CLCN2	MAGEF1,LOC10192899	3	NA	NA
ECE2	MAGEF1,LOC10192899	3	GO_CARDIOBLAST_DIFFERENTIATION	GO_CARDIOBLAST_DIFFERENTIATION
			GO_CARDIOCYTE_DIFFERENTIATION	
EHHADH	MAGEF1,LOC10192899	3	GO_OXIDOREDUCTASE_ACTIVITY	GO_OXIDOREDUCTASE_ACTIVITY

EHHADH-AS1	MAGEF1,LOC10192899	3	NA	NA
EIF4G1	MAGEF1,LOC10192899	3	NA	NA
EPHB3	MAGEF1,LOC10192899	3	GO_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION GO_NEURON_PROJECTION_MORPHOGENESIS GO_TUBE_MORPHOGENESIS GO_NEURON_PROJECTION_GUIDANCE GO_PROTEIN_AUTOPHOSPHORYLATION GO_TRANSMEMBRANE_RECEPTOR_PROTEIN_KINASE_ACTIVITY GO_TRANSMEMBRANE_RECEPTOR_PROTEIN_TYROSINE_KINASE_ACTIVITY GO_EPHRIN_RECEPTOR_ACTIVITY	GO_NEURON_PROJECTION_MORPHOGENESIS
FAM131A	MAGEF1,LOC10192899	3	NA	NA
LOC101928992	MAGEF1,LOC10192899	3	NA	NA
MAGEF1	MAGEF1,LOC10192899	3	NA	NA
POLR2H	MAGEF1,LOC10192899	3	NA	NA
PSMD2	MAGEF1,LOC10192899	3	GO_POSITIVE_REGULATION_OF_PROTEOLYSIS GO_REGULATION_OF_PROTEOLYSIS	NA
SNORD66	MAGEF1,LOC10192899	3	NA	NA
THPO	MAGEF1,LOC10192899	3	NA	NA
TRNA_Asp	MAGEF1,LOC10192899	3	NA	NA
VPS8	MAGEF1,LOC10192899	3	NA	NA
VWASB2	MAGEF1,LOC10192899	3	NA	NA
MIR1224	MAGEF1,LOC10192899	3	NA	NA
PARL	MAGEF1,LOC10192899	3	GO_NEGATIVE_REGULATION_OF_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY GO_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT GO_REGULATION_OF_PROTEOLYSIS GO_REGULATION_OF_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY GO_REGULATION_OF_PROTEIN_TARGETING GO_REGULATION_OF_APOPTOTIC_SIGNALING_PATHWAY	GO_NEGATIVE_REGULATION_OF_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY GO_REGULATION_OF_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY GO_REGULATION_OF_APOPTOTIC_SIGNALING_PATHWAY
ABCC5	MAGEF1,LOC10192899	3	NA	NA
MIR4801	HTN1	4	NA	NA
NWD2	HTN1	4	NA	NA
ARAP2	HTN1	4	NA	NA
DTHD1	HTN1	4	NA	NA
AMTN	HTN1	4	NA	NA
C4orf40	HTN1	4	NA	NA
CABS1	HTN1	4	NA	NA
CSN1S1	HTN1	4	NA	NA
CSN1S2AP	HTN1	4	NA	NA
CSN1S2BP	HTN1	4	NA	NA
CSN2	HTN1	4	NA	NA
CSN3	HTN1	4	NA	NA
FDCSP	HTN1	4	NA	NA
HTN1	HTN1	4	NA	NA
HTN3	HTN1	4	NA	NA
MUC7	HTN1	4	NA	NA
ODAM	HTN1	4	NA	NA
PROL1	HTN1	4	GO_REGULATION_OF_PROTEOLYSIS	NA
PRR27	HTN1	4	NA	NA
SMR3A	HTN1	4	NA	NA
SMR3B	HTN1	4	NA	NA
STATH	HTN1	4	NA	NA
SULT1B1	HTN1	4	GO_EPITHELIUM_DEVELOPMENT GO_TRANSFERASE_ACTIVITY_TRANSFERRING_SULFUR_CONTAINING_GROUPS	GO_TRANSFERASE_ACTIVITY_TRANSFERRING_SULFUR_CONTAINING_GROUPS
SULT1E1	HTN1	4	GO_TRANSFERASE_ACTIVITY_TRANSFERRING_SULFUR_CONTAINING_GROUPS	GO_TRANSFERASE_ACTIVITY_TRANSFERRING_SULFUR_CONTAINING_GROUPS
UGT2A1	HTN1	4	NA	NA
UGT2A2	HTN1	4	NA	NA
CRSF1	HTN1	4	NA	NA
UTP3	HTN1	4	GO_CHROMATIN_MODIFICATION	GO_CHROMATIN_MODIFICATION
DCK	HTN1	4	NA	NA
MOB1B	HTN1	4	NA	NA
ATP5B	HSD17B6,SDR9C7	12	GO_NUCLEOSIDE_TRIPHOSPHATE_METABOLIC_PROCESS GO_MITOCHONDRION_ORGANIZATION GO_MITOCHONDRIAL_MATRIX GO_MITOCHONDRIAL_MEMBRANE_PART GO_PROTON_TRANSPORTING_ATP_SYNTHASE_COMPLEX KEGG_PARKINSONS_DISEASE	GO_NUCLEOSIDE_TRIPHOSPHATE_METABOLIC_PROCESS
BAZ2A	HSD17B6,SDR9C7	12	GO_MACROMOLECULE_DEACYLATION GO_CHROMATIN_MODIFICATION	GO_MACROMOLECULE_DEACYLATION
BC059370	HSD17B6,SDR9C7	12	NA	NA

DQ590166	HSD17B6,SDR9C7	12 NA	NA
GLS2	HSD17B6,SDR9C7	12 GO_REGULATION_OF_INTRACELLULAR_PROTEIN_TRANSPORT GO_REGULATION_OF_PROTEIN_TARGETING GO_MITOCHONDRIAL_MATRIX GO_HYDROLASE_ACTIVITY_ACTING_ON_CARBON_NITROGEN_BUT_NOT_PEPTIDE_BONDS_IN_LINEAR_AMIDES	GO_MITOCHONDRIAL_MATRIX GO_HYDROLASE_ACTIVITY_ACTING_ON_CARBON_NITROGEN_BUT_NOT_PEPTIDE_BONDS_IN_LINEAR_AMIDES
GPR182	HSD17B6,SDR9C7	12 NA	NA
HSD17B6	HSD17B6,SDR9C7	12 GO_HORMONE_BIOSYNTHETIC_PROCESS GO ESTRADIOL_17_BETA_DEHYDROGENASE_ACTIVITY GO ELECTRON_CARRIER_ACTIVITY GO_OXIDOREDUCTASE_ACTIVITY	GO_HORMONE_BIOSYNTHETIC_PROCESS
KIAA1002	HSD17B6,SDR9C7	12 NA	NA
LRP1	HSD17B6,SDR9C7	12 NA	NA
MIP	HSD17B6,SDR9C7	12 GO_PROTEIN_HOMOTETRAMERIZATION GO_PROTEIN_HOMOOIGOMERIZATION	GO_PROTEIN_HOMOTETRAMERIZATION GO_PROTEIN_HOMOOIGOMERIZATION
MIR1228	HSD17B6,SDR9C7	12 NA	NA
MYO1A	HSD17B6,SDR9C7	12 GO_VESICLE_LOCALIZATION GO_MICROVILLUS GO_ACTIN_BASED_CELL_PROJECTION	GO_MICROVILLUS
NAB2	HSD17B6,SDR9C7	12 GO_PERIPHERAL_NERVOUS_SYSTEM_DEVELOPMENT GO_EXTRINSIC_COMPONENT_OF_PLASMA_MEMBRANE GO_OXIDOREDUCTASE_ACTIVITY	GO_PERIPHERAL_NERVOUS_SYSTEM_DEVELOPMENT
NACA	HSD17B6,SDR9C7	12 GO_REGULATION_OF_DEVELOPMENTAL_GROWTH GO_REGULATION_OF_GROWTH GO_REGULATION_OF_HEART_MORPHOGENESIS GO_GROWTH GO_DEVELOPMENTAL_GROWTH GO_TRANSCRIPTION_COACTIVATOR_ACTIVITY	GO_REGULATION_OF_HEART_MORPHOGENESIS
NDUFA4L2	HSD17B6,SDR9C7	12 KEGG_PARKINSONS_DISEASE	KEGG_PARKINSONS_DISEASE
NXP4	HSD17B6,SDR9C7	12 NA	NA
PRIM1	HSD17B6,SDR9C7	12 NA	NA
PTGES3	HSD17B6,SDR9C7	12 GO_PROTEIN_REFOLDING GO_DNA_POLYMERASE_ACTIVITY	GO_PROTEIN_REFOLDING
R3HDM2	HSD17B6,SDR9C7	12 NA	NA
RBMS2	HSD17B6,SDR9C7	12 NA	NA
RDH16	HSD17B6,SDR9C7	12 GO ELECTRON_CARRIER_ACTIVITY GO_OXIDOREDUCTASE_ACTIVITY	GO ELECTRON_CARRIER_ACTIVITY
SDR9C7	HSD17B6,SDR9C7	12 GO_OXIDOREDUCTASE_ACTIVITY	GO_OXIDOREDUCTASE_ACTIVITY
SHMT2	HSD17B6,SDR9C7	12 GO_PROTEIN_HOMOTETRAMERIZATION GO_ONE_CARBON_METABOLIC_PROCESS GO_PROTEIN_HOMOOIGOMERIZATION GO_MITOCHONDRIAL_MATRIX	GO_PROTEIN_HOMOTETRAMERIZATION GO_ONE_CARBON_METABOLIC_PROCESS GO_PROTEIN_HOMOOIGOMERIZATION GO_MITOCHONDRIAL_MATRIX
SNORD59A	HSD17B6,SDR9C7	12 NA	NA
SNORD59B	HSD17B6,SDR9C7	12 NA	NA
SPRY4	HSD17B6,SDR9C7	12 NA	NA
STAC3	HSD17B6,SDR9C7	12 NA	NA
STAT6	HSD17B6,SDR9C7	12 GO_EPITHELIUM_DEVELOPMENT GO_CELL_FATE_COMMITMENT	GO_CELL_FATE_COMMITMENT
TAC3	HSD17B6,SDR9C7	12 NA	NA
TIMELESS	HSD17B6,SDR9C7	12 GO_EPITHELIUM_DEVELOPMENT GO_TUBE_MORPHOGENESIS	GO_TUBE_MORPHOGENESIS
TMEM194A	HSD17B6,SDR9C7	12 NA	NA
ZBTB39	HSD17B6,SDR9C7	12 NA	NA
LPHN2	LPHN2	1 NA	NA
ADI1	LINC01250	2 GO_OXIDOREDUCTASE_ACTIVITY	GO_OXIDOREDUCTASE_ACTIVITY
LINC01250	LINC01250	2 NA	NA
RNASEH1	LINC01250	2 NA	NA
TRAPPC12	LINC01250	2 NA	NA
TSSC1	LINC01250	2 NA	NA
ALLC	LINC01250	2 NA	NA
RPS7	LINC01250	2 GO_EPITHELIUM_DEVELOPMENT GO_TUBE_MORPHOGENESIS	GO_TUBE_MORPHOGENESIS
ATP6V1C2	KCNF1,FLJ33534	2 NA	NA
AX746649	KCNF1,FLJ33534	2 NA	NA
C2orf50	KCNF1,FLJ33534	2 NA	NA
E2f6	KCNF1,FLJ33534	2 NA	NA
FLJ33534	KCNF1,FLJ33534	2 NA	NA
KCNF1	KCNF1,FLJ33534	2 GO_PROTEIN_HOMOOIGOMERIZATION GO_DELAYED_RECTIFIER_POTASSIUM_CHANNEL_ACTIVITY	GO_PROTEIN_HOMOOIGOMERIZATION
LINC00570	KCNF1,FLJ33534	2 NA	NA

LOC101929733	KCNF1,FLJ33534	2 NA	NA
NOL10	KCNF1,FLJ33534	2 NA	NA
PDIA6	KCNF1,FLJ33534	2 NA	NA
PQLC3	KCNF1,FLJ33534	2 NA	NA
ROCK2	KCNF1,FLJ33534	2 GO_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	GO_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION
CYS1	KCNF1,FLJ33534	2 NA	NA
PRM2	KCNF1,FLJ33534	2 NA	NA
NTS2R	KCNF1,FLJ33534	2 NA	NA
GREB1	KCNF1,FLJ33534	2 NA	NA