Table S1. Genes with altered expression and DNA methylation profiles between cancer cells isolated from ascitic fluids obtained before and after CapeOX.

Decreased expression	Hypermethylation	Increased expression	Hypomethylation
CSRP3	FAM193A	CCL8	PI3
TMEM196	**FMO1**	TERT	PDCD1LG2
PKNOX2	GPR75	LILRB5	IFI44L
CLCA3P	**NPHS1**	S100B	SFTA1P
DEFB4A	SEMA3B	MLXIPL	
PRODH2	ANGPTL7	TNFAIP8L2	
PAPD5	YPEL3	EMR2	
APLF	**WISP1**	S100A8	
CILP	STK38L	LILRB1	
NPHS1	ARHGEF25	GPR65	
OR52E2	SLC44A2	TGFB2	
LGALS7	MAB21L2	STAB1	
BPIFB1	OR10J1	LCP2	
FAM25A	KLK11	C1QC	
HBD	**FXYD1**	CMKLR1	
CXCL10	GPR110	C1QA	
TMEM211	APBB2	C1QB	
DSG3	AREG	LST1	
FUT7	ELF3	PLEK	
PCDH20	PART1	RNASE6	
PTPRD	LOC285419	LILRB2	
HPCAL4	MSLN	ARHGAP9	
C20orf151	ECEL1P2	S100A9	
TMEM89	C1QA	MS4A7	
PSG10P	PYGM	CCR1	
ACTL7B		TRPM2	
CACNB1		OXTR	
EFNA3		FYB	
LOC646999		CD163	
KIAA1211		FERMT3	
GRIA2		GIMAP1	
LCE1B		SPINK1	

MYRIP	TLR4
IGFL1	MPEG1
CYP4F11	CYTIP
NMU	HCK
UBD	CSF1R
PLIN5	CD33
SOST	PECAM1
GPR32	MS4A6A
C22orf32	TUSC1
DIO3OS	CCL3
WDR86	CCL3L3
JAKMIP1	PSCA
C8A	C2orf62
LOC283922	FCGR3A
SYT7	SYK
AKR1B15	HRH4
SPON1	DAPP1
ZNF597	RETN
LTB	LAPTM5
LINC00271	SLAMF8
GLS2	LRRC25
C20orf118	ADORA3
CD70	MS4A4A
TRIM63	CD53
C8orf12	GIMAP4
CCK	CH25H
HEYL	SLA
LDLRAD2	CADM3
TDO2	CD93
SLC15A1	SULT1E1
SH3GL2	VMO1
FSTL5	C5AR1
RAB33B	HLA-DMB
NTRK2	TYROBP
RARRES2	HCLS1
STAB2	LILRB4

TAS2R41	KCTD4
CDH18	EVI2B
CD1D	PRR5L
ARL14	AMICA1
LYZL1	NEU4
CES3	FPR3
MKRN3	OR8H2
AGTR1	NINJ2
CRYGD	CD84
TMED6	BATF
TRIM42	PGR
LOC100129794	LYVE1
RHBDL3	BLNK
MYH7B	LRMP
CD52	HLA-DQA2
B3GNT3	PRAM1
CNTN4	BIN2
MPL	CTSS
TSPAN19	CCDC140
CASP12	HLA-DQA1
TRAF1	RUNX3
HIST1H1A	TNFRSF1B
AADACL4	CD14
LOC728613	NCKAP1L
E2F8	RAET1E
NEUROG1	RGS1
RASL11B	HAVCR2
SPINK4	APOC2
C12orf69	LILRB3
DKFZP434L187	GMFG
LRRC52	BCAS1
CASQ1	SYNPR
MOXD2P	DENND1C
SERPINB5	MSR1
FAM47E	PTPRC
FLT3	C20orf152

STMN4	CYTH4
OR5K2	C1orf210
FAM150A	TREM2
KCNH4	HAMP
FOXQ1	TFEC
HHATL	SIGLEC11
ANKRD55	LAIR1
KCNK12	LGALS9C
FXYD1	SCN4B
DAND5	C1orf162
GJB3	EGR2
IL7R	CDH13
TMC5	CETP
WDR52	EDIL3
VWA3B	PIK3CG
REM1	UPK1B
BLID	ZNF221
SLC39A2	CCL4
SPACA4	FOLR2
ABCB11	SPI1
TRIML2	SLC6A4
LINC00161	ADAMDEC1
OR4D6	IL21R
MAT1A	PRDM1
KCNK7	CLUL1
OR10A7	ALOX5
CLDN6	G0S2
LCE1D	ANGPTL2
WISP1	ABCD2
S100A7A	OR2T4
RSPH6A	OR4A47
WNT11	PALMD
PSG2	FGFBP1
SRL	GBX2
PCP4L1	HLA-DRA
SOX10	IGFBP5

SSTR4	MNDA
C11orf96	CAMK4
ADAMTS9	STYK1
SFMBT2	IL10RA
HSD3B1	KCNT2
IL4I1	FCGR2A
C5orf60	SCGB1D4
SUSD2	SORL1
LOC401463	GPR84
NPY1R	VAV3
LSAMP	VAV1
CYP27C1	ZNF534
PRDM9	HK3
OR13C4	ADRB2
MCHR2	GPRC5A
SBSN	EPN3
FAM5B	SLC1A3
DPP6	CYP24A1
CX3CL1	NPPB
GSG2	LMO2
UPP2	PLCB2
GRAPL	FGD3
OR10H1	TNNI2
C9	KLK7
SAA4	SLC16A6
GABRD	FPR2
SYPL2	CD300C
TXK	C1orf114
LPPR5	DCDC2
CRP	ARG1
OR5R1	SNORD8
OR7A17	LGI4
LOC440905	GPR183
CST2	PTPRO
FBLN1	MFSD4
ASIP	PREX1

FAM75C2	SIGLEC10
PSAPL1	PZP
TAL2	PDE4B
ANGPTL4	ITGAL
SALL4	GIMAP6
NEIL3	MFNG
SGIP1	TMEM119
KCNC1	CD163L1
ELANE	IRF8
PLA2G4D	ITGB2
CDH19	TRPV2
ADRB1	NCF2
REG1A	CD80
IQUB	MTVR2
C8B	ABI3
NID2	NLRC4
PIP5K1B	APCDD1L
KEL	IL6R
FSTL4	P4HA3
ASPG	DIRAS3
MFSD6L	PAQR5
KCNA10	RCSD1
CPXM1	NPR3
EFS	GNG2
DKK4	CCDC81
WFDC2	DKFZp434J0226
HCAR1	CD48
C7orf65	EPB41L3
TXNRD3NB	KCNIP1
NOD2	BMPR1B
MYOZ2	PAQR9
HECW2	SLC7A4
FAM198A	SLCO2B1
CCDC3	PLEKHA6
C1orf87	GATA3
TMEM215	GFPT2

LINC00472	KLK5
GABRA1	MAP1B
CLIC6	NCF4
PSG11	AIM2
AGR3	LMOD2
PRSS8	HMHA1
WBP2NL	CLEC4A
GNAT3	FAM194A
ADCYAP1R1	GGTA1P
ERBB4	TMC8
DDX50	LILRA4
AGR2	C2CD4B
MTSS1	CRB1
LOC144486	CXCR4
BHLHE22	FPR1
NPVF	ARHGDIB
TSPAN32	MPV17L
OR2L1P	C12orf71
TLR9	RFPL3-AS1
FMO1	GPX3
FAIM3	CCDC147
F2RL1	WDR69
MCOLN3	KCNS1
APOBEC3H	LOC285548
HOXD11	RP11-165H20.1
EFCAB1	SFTPD
RGS9	NFAM1
TSPY26P	EPHA5
KCNAB3	FOXD1
C11orf53	GP6
FAM168A	IFI30
TRIM71	CD44
PDILT	CATSPER1
EBF3	DEPTOR
SERPINA9	KCNK13
OR8D2	LY6G5B

SLC5A4	TLE2
CXCL6	LDHD
CLSPN	UCP2
PRDM16	RIMS4
SNORA81	CD37
TLX2	NMNAT2
LOC148145	EPCAM
IL5	ODZ2
LNX1	IGF2BP3
GPR179	CACNA2D3
FBXL13	JAKMIP3
RHAG	SLC1A4
NR5A1	FOXS1
SYT16	SGCD
APOA5	CCR5
CKMT2	FBXL16
PATL2	CD300A
CCL1	GHRLOS2
DCLK3	LGALS4
SPTBN5	CTNNA2
ANKRD30BL	HNMT
SNORA28	ARHGAP25
TIMD4	ARID3C
GPR37L1	NTSR2
AGPAT9	ZBED2
LHX2	HPD
C19orf40	SIGLEC7
FOXA3	MFSD2A
GRXCR1	CHGA
ATPBD4	DPEP2
CD3G	SPINK6
FLVCR2	IGFL2
RBP7	PRRT4
TULP2	TMEM81
KRT71	CAMK2B
ALDH1L1	APOBR

HBM	TNFSF4
MPPED2	NCAM1
CXCL14	HOXB9
ABI3BP	GIMAP8
SLC22A13	TUBB2B
ST8SIA5	DSPP
ELTD1	DARC
FGA	CCDC15
ACSS3	DNM3
KIAA1614	ADAP2
KCNA1	ITPR1
CRIP3	SDC2
IL10	TIMP3
SLFNL1	TMEM156
SNORA23	WDFY4
SNORA22	SEMA6D
ARHGAP15	ITGA8
DOC2A	OR9Q1
FMO6P	CPB1
CPNE5	TGFBR1
SNAR-A3	ABCA12
QRFPR	FAM196B
SHH	CXCR1
GRM2	MMP9
PDGFRA	GAS7
CRHR2	LILRA2
LRRC43	C1QL4
ACTL7A	PDE8B
CCDC87	HLA-DMA
SLCO5A1	S100A14
DPRX	CEMP1
SLC1A7	SLPI
SAMD15	SERPINA1
CNGA1	DMXL2
LRRC30	RTN1
MANSC4	AMBN

HSPB3	LBH
KLKP1	ADCY7
DEFB124	TNF
TRIM17	TLL1
MGC16275	PRG4
NDNF	ADAMTS5
RNF175	SORBS2
NRIP2	TAGLN
CBLN2	C16orf54
CORO2B	RGS7
ANXA13	CCRL2
C20orf85	ADCY1
GPR153	MGAT3
MSC	LPPR3
SEC16B	MYO1F
TRAPPC6B	EIF4E1B
HCAR3	OPN5
ATPAF1-AS1	LY86
ATAD5	SPRR2F
RHCE	CARD9
PRIMA1	HBBP1
MCOLN2	MMP7
KLHL14	SYNC
TYRO3P	HTRA4
OR2AG1	KCNK6
HLF	FAM43B
C11orf88	REEP2
ENPP2	VIP
LOC144742	OR2A5
CSHL1	MARCO
C1orf116	MYO7A
FHOD3	OR9G4
CCDC42	IGLON5
ODZ4	KCNH5
KIAA0226L	OR6K2
C16orf86	PLA2G2C

PTGIR	FAM105A
DEPDC1B	PCDHA3
PLA2G7	COBL
CT62	LIM2
ZNF833P	CPNE4
C3orf80	TRIM58
MATN3	CRIP1
DES	PLCD4
FAM65C	CYTL1
VSIG2	VNN2
GRIK2	CDH8
KLRD1	KRT76
C1orf68	SLC6A19
TNC	SPRR2B
PI15	C22orf23
CDKN2C	HTR1A
FAM163B	VTN
ZFP42	UGT1A8
SPTB	PLXNA2
JAM2	CACNA1D
ITGA2B	SLC22A12
SCG3	KPRP
HIST1H2BE	CPS1-IT1
FOSB	SLC7A5
PELI2	C2orf65
SERPINI1	CEBPE
MYH6	SCGB1D2
MYBPC2	MFAP5
EPM2AIP1	C22orf26
CYP26C1	LYSMD2
F7	CCL23
LMX1A	GPR113
RFPL1-AS1	A2M
CYP7B1	PLA2G4E
C2orf51	FAM83F
APOL5	PCDHGC5

RNF157	OR4X1
C2	ITGA7
COL22A1	MYL7
SYCP2L	PLEKHA7
TMEM150B	SPOCK1
TRHR	PLXNC1
FBXO15	SERPIND1
BTNL8	PIK3R5
SYT12	SPDYA
PSG5	TRAF3IP3
CCDC135	MBL1P
PPFIA4	KIF5C
LRG1	LRRC14B
C1QL1	CD68
ABCG2	LRRC36
HS3ST5	KCNA5
MACC1	LOC100133308
ESRRB	SPRR2A
SGPP2	FBN2
KDM5A	MRAP2
CSTL1	PARVG
OR2T5	SLC34A1
SNAI3	FOLR3
GCNT3	MYCL1
GUSBP5	SOX18
ITGA10	KCNJ8
PI16	ITGB4
ADORA2A	ACSBG1
GDNF	VWC2
SCT	CYP2E1
RNF152	SPOCK2
HSD3B2	NOXRED1
HSD52	COLEC12
DCHS1	SIRPB2
LUM	HSPG2
LOC100131726	PGPEP1L

CIDEA	CCL26
GPR176	SPRR2E
OR1L3	MGAM
VIPR2	LOC100126784
AKR1E2	GPX2
BARX2	ARHGAP24
PCK1	AFP
FAM159A	FCER1G
MB	RXFP3
DRD3	KLKB1
SGK2	CD209
CCNA1	COL4A1
LRRTM1	OR8G1
FAM53A	ENTPD2
FMOD	EHD3
AIRE	PLCE1
CYP3A5	MUCL1
IL1A	OR2T27
PCP4	KRT28
ELAVL4	CCDC113
FBLN7	TLR6
HBG1	SSPO
HEPN1	POPDC3
RNASE10	LINC00473
OR52W1	HLA-DPA1
LHFPL5	C10orf67
LOC648691	C3orf55
CUZD1	AQP7
KRTAP10-6	SARM1
KCNJ2	C19orf38
FAM26D	KCNA3
PVALB	HHIP
HEPACAM	C19orf77
SYCN	LOC284578
IMPG2	GLRX
GIPC2	APOC1

ACTL9	GATM
C21orf90	IVL
SLC4A9	SSC5D
FAM84A	GIMAP5
TAS2R1	GALNTL1
EFNA2	PRO0628
GLI3	DOK7
C8orf4	LINGO1
OPN4	CA2
MLANA	ABCA4
TRIM67	ADCY5
NELL2	OR14A16
C19orf59	CELA1
CSDC2	CASR
PTPRN	SLC22A16
SIRPD	EVI2A
TDGF1	F13A1
PSMB11	HBEGF
DLGAP5	CCL7
SLC30A10	SLITRK1
SCGB2A2	PMFBP1
SRGAP3	SCN5A
TFPI2	GDF5
SPATA17	KLHDC8A
C14orf64	SPRR2G
C1orf194	TFAP2A
SP5	STARD13
CHRNA7	FNDC5
HOXD9	CDK15
HYAL1	FAM187B
MYZAP	KCNA4
PROP1	FAM78A
RNASE7	SPON2
PLXDC1	CCR4
LRRC4C	LOC255411
IFITM1	SULT6B1

PDGFRL
TTBK1
SLC34A2
PDGFB
DCN
LINC00242
IL1RL1
HS3ST3A1
ZNF521
SCARNA5
HIST1H2AI
TCF7
PRODH
RAB3IL1
IL24
PRAC
CALB1
PTTG3P
C16orf48
BCAM
CLDN23
SERPINE2
ZNF781
PDE3B
KIF26A
FLJ13197
DHDH
ZNF681
NR4A1
ALDOC

ULBP1
TGFBR3
TSPAN15
PGM2L1
NXPH3
KRTAP4-5
MICALCL
RERG
LOXL2
FGF5
GOLGA6L6
SPACA1
ERN2
RNASE2
MCAM
ARHGAP26
FLJ10038
FAM150B
PIGR
HSPA6
POU3F2
TMCO2
OSM
CPN1
ULBP2
PLA2G2A
PAR4
KRT14
C1orf64
C4orf36
FGR
SYNM
DLX1
APOE
CHRNA6
EML1

TNFSF13B

MAPT

EPPK1

PNOC

KIAA0087

RNF182

CCL2

EMR1

SH2D3C

PCOLCE2

OR52K1

IGSF6

GAP43

LRP11

REG1B

SV2B

CNTN3

ST3GAL6

SDS

TMEM108

RND2

PPP1R36

CMBL

THEG

PODXL

COL25A1

GABRA5

RHOB

MAFB

CYP27A1

HRCT1

R3HDML

FAM26F

IL18

FAM83A

FOLR4

ZNF556

NPW

GPR61

PTGES

PCSK5

CCND2

OBP2B

LOC100129034

PTER

MAS1L

LOC285696

OR4F4

PLLP

RTP1

ALS2CR11

GPR37

KRTAP12-3

LINC00442

CNN1

SLC12A8

TFF3

C21orf15

IL36A

CCDC68

RPH3A

ABCC3

SLC4A4

AOAH

PRSS45

VAX1

STL

TMED9

TMEM106A

OR2M2

ADCYAP1

STXBP6

KIF1A

BDKRB2

DOCK2

CEBPA

NKX3-2

TMEM233

OR2A25

LAMC2

FGD4

FXYD6

SCN3B

SERPINB4

TMEM217

SCRG1

SULF1

HPN

PLCB1

LILRA3

NR1I3

TTLL2

C4orf6

GGTLC1

OR6C70

GATA2

ALPI

RSPO1

FAM196A

KRT23

ATP8A1

MIP

ZBTB38

OR4M1

CLEC18C

BDKRB1

WNT9B

CYP1A1

MYOZ3

TSPAN33

OR51E2

MAP1A

ST8SIA4

OR52E8

NTF3

GLI1

CMYA5

AGXT2

GALNTL2

CSTA

CREB5

TCL1B

RASSF4

NTSR1

C3orf72

CATSPER3

C1QTNF9B

ALDH1A3

GBP5

TBC1D10C

GRB14

TF

DGKH

TPPP

MYH9

PPCDC

FAM22D

NRN1

FAM181B

TRIM29

CECR1

NRG3

TMEM204

CCND1

MFAP3L
TM4SF4
ZNF487P
SNORA59B
TP53AIP1
CYS1
SCIN
SCN2B
FGL1
ANO1
CHD5
PHLDA1
CDR2L
RAB30
APOBEC4
OR56A1
LONRF2
P2RX5
BTBD3
TNFRSF19
AHNAK2
C10orf91
FCN1

The genes with decreased expression and hypermethylation are highlighted in bold.

Table S2. Pathways related to genes expressed at lower levels after than before CapeOX.

Pathways	p-value	Number of genes	Genes
GPCR ligand binding	0.0001	32	ADCYAP1R1,ADORA2A,ADRB1, AGTR1,CCK,CCL1,CRHR2,CX3CL1, CXCL10,CXCL6,DRD3,F2RL1, GPR37L1,GRM2,HCAR1,HCAR3, KEL,MCHR2,NMU,NPY1R,OPN4, PLPPR5,PTGIR,QRFPR,SCT,SHH,SST R4,TAS2R1,TAS2R41,TRHR,VIPR2, WNT11
Class A/1 (Rhodopsin-like receptors)	0.0037	23	ADORA2A,ADRB1,AGTR1,CCK, CCL1,CX3CL1,CXCL10,CXCL6, DRD3,F2RL1,GPR37L1,HCAR1, HCAR3,KEL,MCHR2,NMU,NPY1R, OPN4,PLPPR5,PTGIR,QRFPR,SSTR4, TRHR
Signaling by GPCR	0.0077	52	ADCYAP1R1,ADORA2A,ADRB1, AGTR1,CCK,CCL1,CNGA1,CRHR2, CX3CL1,CXCL10,CXCL6,DRD3, F2RL1,GNAT3,GPR176,GPR32, GPR37L1,GRM2,HCAR1,HCAR3,IL5, KEL,MCHR2,NMU,NPY1R,OPN4, OR10A7,OR10H1,OR13C4,OR1L3, OR2AG1,OR2T5,OR4D6,OR52E2, OR52W1,OR5K2,OR5R1,OR7A17, OR8D2,PDE3B,PLPPR5,PTGIR, QRFPR,RGS9,SCT,SHH,SSTR4, TAS2R1,TAS2R41,TRHR,VIPR2, WNT11
Peptide ligand-binding receptors	0.0190	15	AGTR1,CCK,CCL1,CX3CL1,CXCL10, CXCL6, F2RL1,GPR37L1,KEL,MCHR2,NMU, NPY1R,QRFPR,SSTR4,TRHR
GPCR downstream signalling	0.0190	48	ADCYAP1R1,ADORA2A,ADRB1, AGTR1,CCK,CCL1,CNGA1,CRHR2, CX3CL1,CXCL10,CXCL6,DRD3,

			F2RL1,GNAT3,GPR176,GPR32, GPR37L1,GRM2,HCAR1,HCAR3,IL5, MCHR2,NMU,NPY1R,OPN4,OR10A7, OR10H1,OR13C4,OR1L3,OR2AG1, OR2T5,OR4D6,OR52E2,OR52W1, OR5K2,OR5R1,OR7A17,OR8D2, PDE3B,PTGIR,QRFPR,RGS9,SCT, SSTR4,TAS2R1,TAS2R41,TRHR, VIPR2
Neuroactive ligand-receptor interaction	0.0190	19	ADCYAP1R1,ADORA2A,ADRB1, AGTR1,CHRNA7,CRHR2,DRD3, F2RL1,GABRA1,GABRD,GRIA2, GRIK2,GRM2,MCHR2,NPY1R,PTGIR, SSTR4,TRHR,VIPR2
NGF-independant TRKA activation	0.0463	3	ADCYAP1R1,ADORA2A,NTRK2

Table S3. Pathways related to genes expressed at higher levels after than before CapeOX.

Pathways	p-value	No of genes	Genes
Immune System	0.0000000163	134	ADA2,AIM2,ALOX5,ARG1,ARHGAP45,ARHGAP9,ATP8A1,BATF,BIN2,BLNK,C1QA,C1QB,C1QC,C5AR1,CAMK2B,CARD9,CCL2,CCL3,CCL3L3,CCL4,CCND1,CCR1,CCR5,CD14,CD209,CD300A,CD300C,CD33,CD44,CD53,CD68,CD80,CD93,CHGA,CLEC4A,COLEC12,CPN1,CSF1R,CTSS,CXCR1,DAPP1,DNM3,DOCK2,F13A1,FBXL16,FCER1G,FCGR2A,FCGR3A,FCN1,FGR,FOLR3,FPR1,FPR2,FYB1,GATA3,GBP5,GMFG,GPR84,HAVCR2,HCK,HK3,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,HSPA6,IFI30,IL10RA,IL18,IL21R,IL36A,IL6R,IRF8,ITGAL,ITGB2,ITPR1,JAML,LAIR1,LCP2,LILRA2,LILRA3,LILRA4,LILRB1,LILRB4,LILRB5,LRMP,LY86,MGAM,MMP9,MNDA,MUCL1,MYH9,NCAM1,NCF2,NCF4,NCKAP1L,NFAM1,NLRC4,OSM,PECAM1,PIGR,PLA2G2A,PTPRC,RAET1E,RETN,RNASE2,RNASE6,RNF182,S100A8,S100A9,S100B,SARM1,SERPINA1,SIGLEC10,SIGLEC11,SIGLEC7,SLPI,SYK,TBC1D10C,TLR4,TLR6,TNF,TNFRSF1B,TNFSF13B,TNFSF4,TREM2,TRIM29,TRPM2,TYROBP,ULBP1,VAV1,VAV3,VTN
Neutrophil degranulation	0.0000000163	52	ADA2,ALOX5,ARG1,ARHGAP45,ARHGAP9,ATP8A1,BIN2,C5AR1,CD14,CD300A,CD33,CD44,CD53,CD68,CD93,CTSS,CXCR1,DOCK2,FCER1G,FCGR2A,FCN1,FGR,FOLR3,FPR1,FPR2,GMFG,GPR84,HK3,HSPA6,ITGAL,ITGB2,LAIR1,LILRA3,LRMP,MGAM,MMP9,MNDA,NCKAP1L,NFAM1,PECAM1,PIGR,PTPRC,RETN,RNASE2,S100A8,S100A9,SERPINA1,SLPI,TBC1D10C,TNFRSF1B,TRPM2,TYROBP
Staphylococcus aureus infection	0.0000000163	17	C1QA,C1QB,C1QC,C5AR1,FCGR2A,FCGR3A,FPR1,FPR2,FPR3,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,ITGAL,ITGB2
Innate Immune System	0.0000001668	83	ADA2,AIM2,ALOX5,ARG1,ARHGAP45,ARHGAP9,ATP8A1,BIN2,C1QA,C1QB,C1QC,C5AR1,CARD9,CD14,CD209,CD300A,CD33,CD44,CD53,CD68,CD93,CHGA,CLEC4A,CPN1,CTSS,CXCR1,DNM3,DOCK2,FCER1G,FCGR2A,FCGR3A,FCN1,FGR,FOLR3,FPR1,FPR2,GMFG,GPR84,HCK,HK3,HSPA6,ITG

			AL,ITGB2,ITPR1,LAIR1,LCP2,LILRA3,LRMP,LY86,MGAM, MMP9,MNDA,MUCL1,MYH9,NCF2,NCF4,NCKAP1L,NFAM 1,NLRC4,PECAM1,PIGR,PLA2G2A,PTPRC,RETN,RNASE2,R NASE6,S100A8,S100A9,S100B,SARM1,SERPINA1,SLPI,SYK, TBC1D10C,TLR4,TLR6,TNFRSF1B,TREM2,TRPM2,TYROBP ,VAV1,VAV3,VTN
Osteoclast differentiation	0.0000003422	23	BLNK,CAMK4,CSF1R,FCGR2A,FCGR3A,LCP2,LILRA2,LIL RA3,LILRA4,LILRB1,LILRB2,LILRB3,LILRB4,LILRB5,NCF2 ,NCF4,SPI1,SYK,TGFB2,TGFBR1,TNF,TREM2,TYROBP
Signaling by GPCR	0.0000005501	88	ABCA4,ACKR1,ADCY1,ADCY5,ADCY7,ADCYAP1,ADGRE 1,ADGRE2,ADORA3,ADRB2,APOC2,APOE,BDKRB1,BDKR B2,C5AR1,CAMK4,CASR,CCL23,CCL4,CCR1,CCR4,CCR5,C CRL2,CMKLR1,CXCR1,CXCR4,DGKH,FGD3,FGD4,FPR1,FP R2,FPR3,GNG2,GPR183,GPR37,GPR65,GPR84,HBEGF,HRH4 ,HSPG2,HTR1A,ITPR1,MYO7A,NPW,NTSR1,NTSR2,OPN5,O R14A16,OR2A25,OR2A5,OR2M2,OR2T27,OR2T4,OR4A47,O R4F4,OR4M1,OR4X1,OR51E2,OR52E8,OR52K1,OR56A1,OR 6C70,OR6K2,OR8G1,OR8H2,OR9G4,OR9Q1,OXTR,PDE4B,P DE8B,PIK3CG,PIK3R5,PLCB1,PLCB2,PLPPR3,PNOC,PREX1, REEP2,RGS1,RGS7,RHOB,RTP1,RXFP3,SDC2,VAV1,VAV3, VIP,WNT9B
Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell	0.0000010140	22	CD300A,CD300C,CD33,COLEC12,FCGR3A,ITGAL,ITGB2,JA ML,LAIR1,LILRA2,LILRA3,LILRA4,LILRB1,LILRB4,LILRB 5,RAET1E,SIGLEC10,SIGLEC11,SIGLEC7,TREM2,TYROBP, ULBP1
GPCR downstream signalling	0.0000087603	81	ABCA4,ADCY1,ADCY5,ADCY7,ADCYAP1,ADORA3,ADRB 2,APOC2,APOE,BDKRB1,BDKRB2,C5AR1,CAMK4,CASR,C CL23,CCL4,CCR1,CCR4,CCR5,CXCR1,CXCR4,DGKH,FGD3, FGD4,FPR1,FPR2,FPR3,GNG2,GPR183,GPR37,GPR65,GPR84 ,HBEGF,HRH4,HSPG2,HTR1A,ITPR1,MYO7A,NPW,NTSR1, NTSR2,OPN5,OR14A16,OR2A25,OR2A5,OR2M2,OR2T27,OR 2T4,OR4A47,OR4F4,OR4M1,OR4X1,OR51E2,OR52E8,OR52K 1,OR56A1,OR6C70,OR6K2,OR8G1,OR8H2,OR9G4,OR9Q1,O XTR,PDE4B,PDE8B,PIK3CG,PIK3R5,PLCB1,PLCB2,PNOC,P

			REX1,REEP2,RGS1,RGS7,RHOB,RTP1,RXFP3,SDC2,VAV1, VAV3,VIP
G alpha (i) signalling events	0.0000092943	40	ABCA4,ADCY1,ADCY5,ADCY7,ADORA3,APOC2,APOE,BDKRB1,BDKRB2,C5AR1,CAMK4,CASR,CCL23,CCL4,CCR1,CCR4,CCR5,CXCR1,CXCR4,FPR1,FPR2,FPR3,GNG2,GPR183, GPR37,HRH4,HSPG2,HTR1A,ITPR1,MYO7A,NPW,OPN5,PDE4B,PLCB1,PLCB2,PNOC,RGS1,RGS7,RXFP3,SDC2
Chemokine signaling pathway	0.0000124960	25	ADCY1,ADCY5,ADCY7,CCL2,CCL23,CCL26,CCL3,CCL3L3, CCL4,CCL7,CCL8,CCR1,CCR4,CCR5,CXCR1,CXCR4,DOCK2,FGR,GNG2,HCK,PLCB1,PLCB2,PREX1,VAV1,VAV3
Rheumatoid arthritis	0.0000124960	17	CCL2,CCL3,CCL3L3,CD80,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,IL18,ITGAL,ITGB2,TGFB2,TLR4,TNF,TNFSF13B
Interleukin-10 signaling	0.0000547144	12	CCL2,CCL3,CCL3L3,CCL4,CCR1,CCR5,CD80,FPR1,IL10RA, IL18,TNF,TNFRSF1B
Phagosome	0.0000818970	21	CD14,CD209,COLEC12,CTSS,FCGR2A,FCGR3A,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,ITGB2,MARCO,MSR1,NCF2,NCF4,SFTPD,TLR4,TLR6, TUBB2B
Leishmaniasis	0.0001449224	14	FCGR2A,FCGR3A,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,ITGB2,NCF2,NCF4,TGFB2,TLR4,TNF
CXCR4-mediated signaling events	0.0002376808	16	CXCR4,FGR,GNG2,HCK,HLA-DRA,ITGA7,ITGA8,MMP9,PIK3CG,PIK3R5,PLCB1,PLCB2,PTPRC,RGS1,RHOB,VAV1
Extracellular matrix organization	0.0002420537	30	A2M,ADAMTS5,CD44,COL25A1,COL4A1,CTSS,DSPP,FBN2, GDF5,HSPG2,ITGA7,ITGA8,ITGAL,ITGB2,ITGB4,KLK7,KLKB1,LAMC2,LOXL2,MFAP5,MMP7,MMP9,NCAM1,P4HA3,PCOLCE2,PECAM1,SDC2,TGFB2,TLL1,VTN
Tuberculosis	0.0002540865	22	CAMK2B,CARD9,CD14,CD209,CTSS,FCER1G,FCGR2A,FCGR3A,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,IL10RA,IL18,ITGB2,SYK,TGFB2,TLR4,TLR6,TNF
Cytokine-cytokine receptor interaction	0.0003076946	28	BMPR1B,CCL2,CCL23,CCL26,CCL3,CCL3L3,CCL4,CCL7,CCL8,CCR1,CCR4,CCR5,CSF1R,CXCR1,CXCR4,GDF5,IL10R

			A,IL18,IL21R,IL6R,OSM,TGFB2,TGFBR1,TNF,TNFRSF19,TNFRSF1B,TNFSF13B,TNFSF4
Inflammatory bowel disease (IBD)	0.0008563141	12	GATA3,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,IL18,IL21R,TGFB2,TLR4,TNF
Toxoplasmosis	0.0009218890	16	ALOX5,CCR5,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,HSPA6,IL10RA,LAMC2,PIK3CG,PIK3R5,TGFB2,TLR4,TNF
Chagas disease (American trypanosomiasis)	0.0010568260	15	ADCY1,BDKRB2,C1QA,C1QB,C1QC,CCL2,CCL3,CCL3L3,PLCB1,PLCB2,TGFB2,TGFBR1,TLR4,TLR6,TNF
Class A/1 (Rhodopsin-like receptors)	0.0010988299	30	ACKR1,ADORA3,ADRB2,BDKRB1,BDKRB2,C5AR1,CCL23,CCR1,CCR4,CCR5,CCRL2,CMKLR1,CXCR1,CXCR4,FPR1,FPR2,FPR3,GPR183,GPR37,GPR65,HRH4,HTR1A,NPW,NTSR1,NTSR2,OPN5,OXTR,PLPPR3,PNOC,RXFP3
Complement and coagulation cascades	0.0010988299	13	A2M,BDKRB1,BDKRB2,C1QA,C1QB,C1QC,C5AR1,F13A1,ITGB2,KLKB1,SERPINA1,SERPIND1,VTN
Peptide ligand-binding receptors	0.0014174225	21	ACKR1,BDKRB1,BDKRB2,C5AR1,CCL23,CCR1,CCR4,CCR5,CCRL2,CXCR1,CXCR4,FPR1,FPR2,FPR3,GPR37,NPW,NTSR1,NTSR2,OXTR,PNOC,RXFP3
Intestinal immune network for IgA production	0.0014174225	10	CD80,CXCR4,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,PIGR,TNFSF13B
Malaria	0.0014174225	10	ACKR1,CCL2,IL18,ITGAL,ITGB2,PECAM1,SDC2,TGFB2,TLR4,TNF
Viral myocarditis	0.0014174225	11	CCND1,CD80,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,ITGAL,ITGB2,SGCD
Asthma	0.0015969768	8	FCER1G,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,TNF
GPCR ligand binding	0.0016800383	37	ACKR1,ADCYAP1,ADGRE1,ADGRE2,ADORA3,ADRB2,BDKRB1,BDKRB2,C5AR1,CASR,CCL23,CCR1,CCR4,CCR5,CCRL2,CMKLR1,CXCR1,CXCR4,FPR1,FPR2,FPR3,GNG2,GPR183,GPR37,GPR65,HRH4,HTR1A,NPW,NTSR1,NTSR2,OPN5,OXTR,PLPPR3,PNOC,RXFP3,VIP,WNT9B

FCGR activation	0.0046375920	5	FCGR2A,FCGR3A,FGR,HCK,SYK
Other semaphorin interactions	0.0048190021	6	PLXNA2,PLXNC1,PTPRC,SEMA6D,TREM2,TYROBP
IL8- and CXCR1-mediated signaling events	0.0059209448	7	CXCR1,FGR,GNG2,HCK,PIK3CG,PLCB1,PLCB2
Platelet activation	0.0063966334	15	ADCY1,ADCY5,ADCY7,FCER1G,FCGR2A,FERMT3,GP6,ITPR1,LCP2,PIK3CG,PIK3R5,PLA2G4E,PLCB1,PLCB2,SYK
Allograft rejection	0.0064151252	8	CD80,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,TNF
Hematopoietic cell lineage	0.0067429192	13	CD14,CD33,CD37,CD44,CSF1R,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,IL6R,TNF
Cholinergic synapse	0.0076862592	14	ADCY1,ADCY5,ADCY7,CACNA1D,CAMK2B,CAMK4,CHRNA6,CREB5,GNG2,ITPR1,PIK3CG,PIK3R5,PLCB1,PLCB2
Formyl peptide receptors bind formyl peptides and many other ligands	0.0095408723	4	CCL23,FPR1,FPR2,FPR3
Cortisol synthesis and secretion	0.0096181459	10	ADCY1,ADCY5,ADCY7,CACNA1D,CREB5,ITPR1,KCNA4,PDE8B,PLCB1,PLCB2
Graft-versus-host disease	0.0098625098	8	CD80,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,TNF
Binding and Uptake of Ligands by Scavenger Receptors	0.0114798995	8	APOE,CD163,COL4A1,COLEC12,MARCO,MSR1,SSC5D,STAB1
GPVI-mediated activation cascade	0.0129817099	9	FCER1G,GP6,LCP2,PIK3CG,PIK3R5,RHOB,SYK,VAV1,VAV3
Type I diabetes mellitus	0.0129817099	8	CD80,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,TNF
Regulation of TLR by endogenous ligand	0.0156774710	5	CD14,S100A8,S100A9,TLR4,TLR6
Interleukin-4 and 13 signaling	0.0157152663	13	ALOX5,BATF,CCL2,CCND1,F13A1,GATA3,IL18,IL6R,ITGB2,MMP9,OSM,TNF,TNFRSF1B

IL8- and CXCR2-mediated signaling events	0.0157152663	7	DOCK2,FGR,GNG2,HCK,PIK3CG,PLCB1,PLCB2
Oxytocin signaling pathway	0.0165913656	16	ADCY1,ADCY5,ADCY7,CACNA1D,CACNA2D3,CAMK2B,CAMK4,CCND1,ITPR1,OXTR,PIK3CG,PIK3R5,PLA2G4E,PLCB1,PLCB2,TRPM2
Amoebiasis	0.0180205956	12	ADCY1,ARG1,CD14,COL4A1,ITGB2,LAMC2,PLCB1,PLCB2,SERPINB4,TGFB2,TLR4,TNF
Cell adhesion molecules (CAMs)	0.0273234335	15	CADM3,CD80,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,ITGA8,ITGAL,ITGB2,NCAM1,PECAM1,PTPRC,SDC2
Adaptive Immune System	0.0304935578	47	BLNK,CD14,CD209,CD300A,CD300C,CD33,CD80,COLEC12,CTSS,DAPP1,DNM3,FBXL16,FCGR3A,FYB1,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,IFI30,ITGAL,ITGB2,ITPR1,JAML,LAIR1,LCP2,LILRA2,LILRA3,LILRA4,LILRB1,LILRB4,LILRB5,NCF2,NCF4,PTPRC,RAET1E,RNF182,SIGLEC10,SIGLEC11,SIGLEC7,SYK,TLR4,TLR6,TREM2,TYROBP,ULBP1,VAV1
Scavenging by Class A Receptors	0.0325813448	5	APOE,COL4A1,COLEC12,MARCO,MSR1
Natural killer cell mediated cytotoxicity	0.0328720450	14	CD48,FCER1G,FCGR3A,ITGAL,ITGB2,LCP2,RAET1E,SYK,TNF,TYROBP,ULBP1,ULBP2,VAV1,VAV3
Collagen formation	0.0339868101	11	COL25A1,COL4A1,CTSS,ITGB4,LAMC2,LOXL2,MMP7,MMP9,P4HA3,PCOLCE2,TLL1
Dilated cardiomyopathy (DCM)	0.0339868101	11	ADCY1,ADCY5,ADCY7,CACNA1D,CACNA2D3,ITGA7,ITGA8,ITGB4,SGCD,TGFB2,TNF
Antigen processing and presentation	0.0357546219	10	CTSS,HLA-DMA,HLA-DMB,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,HSPA6,IFI30,TNF
Signaling Pathways	0.0384717718	130	A2M,ABCA4,ACKR1,ADCY1,ADCY5,ADCY7,ADCYAP1,ADGRE1,ADGRE2,ADORA3,ADRB2,ALDH1A3,APOC2,APOE,ARHGAP24,ARHGAP25,ARHGAP26,ARHGAP45,ARHGAP9,ARHGDIB,BDKRB1,BDKRB2,BMPR1B,C5AR1,CAMK2B,CAMK4,CASR,CCL23,CCL4,CCND1,CCR1,CCR4,CCR5,CCRL

			2,CD80,CMKLR1,COL4A1,CXCR1,CXCR4,DGKH,DNM3,FGD3,FGD4,FGF5,FGFBP1,FPR1,FPR2,FPR3,GLI1,GNG2,GPR183,GPR37,GPR65,GPR84,HBEGF,HHIP,HPN,HRH4,HSPG2,HTR1A,IL6R,ITPR1,LAMC2,LINGO1,MFNG,MMP9,MYH9,MYO7A,NCAM1,NCF2,NCF4,NCKAP1L,NPW,NRG3,NTSR1,NTSR2,OPN5,OR14A16,OR2A25,OR2A5,OR2M2,OR2T27,OR2T4,OR4A47,OR4F4,OR4M1,OR4X1,OR51E2,OR52E8,OR52K1,OR56A1,OR6C70,OR6K2,OR8G1,OR8H2,OR9G4,OR9Q1,OXTR,PCSK5,PDE4B,PDE8B,PGR,PIK3CG,PIK3R5,PLCB1,PLCB2,PLPPR3,PNOC,PREX1,REEP2,RGS1,RGS7,RHOB,RSPO1,RTP1,RUNX3,RXFP3,S100B,SDC2,ST3GAL6,STARD13,SYK,TERT,TGFBR1,TLE2,TNF,VAV1,VAV3,VIP,WNT9B
Interferon gamma signaling	0.0387630629	11	CAMK2B,CD44,GBP5,HLA-DPA1,HLA-DQA1,HLA-DQA2,HLA-DRA,IFI30,IRF8,NCAM1,TRIM29
Elastic fibre formation	0.0407569910	7	FBN2,GDF5,ITGA8,LOXL2,MFAP5,TGFB2,VTN
Rho GTPase cycle	0.0417106036	14	A2M,ARHGAP24,ARHGAP25,ARHGAP26,ARHGAP45,ARHGAP9,ARHGDIB,FGD3,FGD4,PREX1,RHOB,STARD13,VAV1,VAV3
Integrin cell surface interactions	0.0417106036	9	CD44,COL4A1,HSPG2,ITGA7,ITGA8,ITGAL,ITGB2,PECAM1,VTN
Classical antibody-mediated complement activation	0.0451067419	3	C1QA,C1QB,C1QC

Table S4. Genes with altered expression in commonly CapeOX-resistant cells and in three oxaliplatin-resistant cell lines.

Genes with commonly increased expression in CapeOX-resistant cells and in three oxaliplatin-resistant cell lines	Genes with commonly decreased expression in CapeOX-resistant cells and in three oxaliplatin-resistant cell lines
VTN	ZSCAN5B
UCP2	ZNF879
TERT	ZNF480
STYK1	ZNF439
STXBP6	ZNF213
SLCO2B1	ZFP3
NPPB	ZBP1
MGAT3	YTHDC1
MFSD2A	XAF1
LILRA4	WNT9B
IRF8	WNT1
IGF2BP3	WFDC10A
IFI30	WDR64
HRCT1	VEGFA
HNMT	VAX1
HLA-DMA	UGT3A2
GPR183	TUBB1
FOLR3	TTLL2
FGFBP1	TTC29
FGD3	TTC22
FAM105A	TTC17
EPN3	TSHZ2
CCL4	TSGA13
CCL3	TRPV6
C19orf77	TRPV5
ARHGDIB	TRIB3
APOC1	TREML4
APOBEC4	TNFSF10
ABCA12	TMEM71

TMEM30C
TMEM155
TMEM132C
TMC5
TM4SF4
TLR9
TIGD6
TFF1
TCN1
TCL1A
TBX21
TAS2R4
SYT17
SYNDIG1
SUB1
STXBP2
SSTR5
SRD5A2
SPRR2F
SPRR2E
SPRR2D
SPRR2C
SPRR2B
SPRR2A
SPATA16
SOX21
SNORA70B
SNORA22
SLC38A4
SLC35F3
SLC35D3
SLC34A2
SLC28A3
SLC26A9
SLC15A3
SHOX2

SH3GL3
SERPINI2
SERPINB4
SDC4P
SCN1B
S100A7A
RSPH4A
RPH3A
RP1
RND1
RLN3
RIMS1
RICTOR
RGS11
RETN
RBCK1
PYGB
PTPRM
PTPRH
PTPN5
PTCHD2
PRSS3
PRSS1
PRR24
PROX1
PRNT
PRAMEF22
PPP2R5B
PPP1R15A
PPM1L
POU4F2
POLR2M
PNPLA7
PLXNA2
PLEKHH2
PLA2G7

PLA2G4D
PGLYRP2
PGA3
PEX16
PDE3A
PDE11A
PCDHB14
PCDHB12
PCDHB11
PCDHB10
PADI1
PACS2
PABPC4L
OSMR
OR8H2
OR8B4
OR7A17
OR6N1
OR6C65
OR5H14
OR5D13
OR5B2
OR56B4
OR52I1
OR51G1
OR4N2
OR4D5
OR2W5
OR2T34
OR2A7
OR1L3
OR13A1
OR11H6
OR10T2
OR10A4
OLFM1

OAS2
NUPR1
NPHP3-AS1
NLRC5
NFIX
NCKAP1L
NCAN
NAT8
NANOS2
MYO5A
MYH6
MXD1
MX2
MUCL1
MUC5B
MTVR2
MT4
MSGN1
MMP10
MMP1
MLPH
MGC12916
LRRTM2
LRRN4CL
LPAR6
LOXL2
LOC731789
LOC349196
LOC285593
LOC284412
LOC100271722
LOC100128164
LOC100127888
LINC00473
LINC00304
LINC00301

LIN28B
LGI4
LGALS9C
LCN2
LCA5L
LAMP3
LAMC2
KRT75
KRT6C
KRT6B
KRT24
KRT20
KLK9
KLK6
KLHDC7B
KLF3
KLF2
KIR2DS4
KIF21B
KIF1A
KIAA1199
KCNQ1OT1
JHDM1D
JAK1
IZUMO1
ITPKA
ITGB8
ITGB7
ITGB6
ITGA2
IRF7
IRF1
IPO9
INPP4B
INHBE
IL2RB

IL21R
IL13
IL10
IKZF1
IGSF10
IGFL4
IGFBP1
IFI35
IFI27
IFI16
HTR1E
HSD3B2
HLA-J
HLA-G
HLA-F
HLA-C
HLA-B
HKDC1
HIPK4
HES7
HES3
HENMT1
HDAC4
HBEGF
H1FOO
GUCA1A
GTSF1
GTPBP2
GTF2IRD2B
GTF2IRD2
GPR110
GOLGA7B
GNAT1
GLIPR1
GLI1
GKN2

GCNT7

GALNT3

GABRR2

FUT3

FUT1

FNDC7

FLNB

FLJ33360

FKBP6

FHDC1

FGD5

FEV

FBP1

FBLN7

FAM83E

FAM83C

FAM59B

FAM43A

FAM19A2

FAM189A1

FAIM3

F13A1

EXT1

ELANE

EGF

ECM1

ECE1

EBF2

EBF1

DST

DOCK10

DNAJC12

DNAJB7

DKFZP434K028

DHRS9

DENND4A

DEFB4A
DEFB119
DEFB112
DEFB1
DCDC2B
DBX1
DAPP1
CYP2E1
CRX
CRISPLD2
CRB1
COCH
CHST15
CECR2
CEACAM7
CEACAM6
CEACAM5
CDCP1
CD59
CD200R1
CCRL2
CCR3
CCL23
CCL11
CCDC69
CCDC27
CCDC140
CCDC11
CCDC105
CBX4
CATSPERB
CATSPER4
CASQ1
CASP5
CASP4
CASP1

CAPN9
CACNG2
C6orf223
C6orf163
C5orf28
C4orf47
C3orf62
C3orf36
C2orf62
C1orf228
C17orf66
C17orf104
C12orf71
C12orf70
C12orf39
BTG1
BTC
BTBD18
BST2
BDH2
BCAR4
B2M
AVPR1B
ATP2C2
ATF5
ASS1
ASB14
ART3
ARMC2
ARL4C
ARHGEF2
ARHGAP26
AQP2
AOC4
ANXA13
ANO1

ANKRD53
ANKRD30A
ANGPTL2
AMY1C
ALX1
AKAP6
ADM2
ADAMTS14
ADAM7
ADAM3A
ACYP2
ACTA1
ACMSD
ABCG1
A4GNT

Table S5. Pathways related to genes exhibiting common changes between CapeOX-resistant cells and oxaliplatin-resistant cells.

Pathways	p-value	Number of
Interferon alpha/beta signaling	4.3479E-	14
Interferon Signaling	0.0014888	17
Endosomal/Vacuolar pathway	0.0015508	5
Interferon gamma signaling	0.0026871	11
Human papillomavirus infection	0.0027066	21
Immune System	0.0080277 6	69
Signaling by GPCR	0.0089466 9	47
Cytokine Signaling in Immune system	0.0102287	32
Olfactory Signaling Pathway	0.0304814	21
GPCR downstream signalling	0.0304814	43
Antigen Presentation: Folding, assembly	0.0304814	5
Allograft rejection	0.0304814	6
G alpha (s) signalling events	0.0433466	25
Antigen processing and presentation	0.0433466	8

Genes
BST2,HLA-B,HLA-C,HLA-F,HLA-G,IFI27,IFI35,IRF1,IRF7,IRF8,JAK1,MX2,OAS2,XAF1
B2M,BST2,FLNB,HLA-B,HLA-C,HLA-F,HLA-
B2M,HLA-B,HLA-C,HLA-F,HLA-G
B2M,HLA-B,HLA-C,HLA-F,HLA-G,IFI30,IRF1,IRF7,IRF8,JAK1,OAS2
EGF,HDAC4,HES3,HES7,HLA-B,HLA-C,HLA-F,HLA-
ASB14,B2M,BST2,CASP1,CASP4,CCL11,CCL3,CCL4,CD200R1,CD59,CEACAM6,CRISPLD2 ,DAPP1,DEFB1,DEFB112,DEFB119,DEFB4A,ELANE,F13A1,FLNB,FOLR3,GLIPR1,HLA-
ADM2,ARHGEF2,AVPR1B,CCL23,CCL4,CCR3,CCRL2,DHRS9,ECE1,FGD3,GNAT1,GPR183 ,GUCA1A,HBEGF,HTR1E,IL2RB,JAK1,LPAR6,OR10A4,OR10T2,OR11H6,OR13A1,OR1L3,O
B2M,BST2,CASP1,CCL11,CCL3,CCL4,F13A1,FLNB,HLA-B,HLA-C,HLA-F,HLA-
OR10A4,OR10T2,OR11H6,OR13A1,OR1L3,OR2A7,OR2T34,OR2W5,OR4D5,OR4N2,OR51G1
ADM2,ARHGEF2,AVPR1B,CCL23,CCL4,CCR3,DHRS9,FGD3,GNAT1,GPR183,GUCA1A,HB
B2M,HLA-B,HLA-C,HLA-F,HLA-G
HLA-B,HLA-C,HLA-DMA,HLA-F,HLA-G,IL10
ADM2,OR10A4,OR10T2,OR11H6,OR13A1,OR1L3,OR2A7,OR2T34,OR2W5,OR4D5,OR4N2,O
B2M,HLA-B,HLA-C,HLA-DMA,HLA-F,HLA-G,IFI30,KIR2DS4

Table S6. Genes exhibiting common alterations between CapeOX-resistant cells and fluorouracil-resistant AGS cells.

Genes commonly increased in expression in CapeOX-resistant cells and fluorouracil-resistant AGS	Genes commonly decreased in expression in CapeOX-resistant cells and fluorouracil-resistant AGS
ZNF556	WDR52
ZBED2	TRIM42
VTN	TRHR
ULBP2	TMC5
TSPAN33	TLR9
TRPV2	TDGF1
TRPM2	TAS2R41
TMEM156	SSTR4
TMC8	SPACA4
TLE2	SNORA22
THEG	SLC34A2
TERT	SFMBT2
TCL1B	S100A7A
TBC1D10C	RNF175
STYK1	RFPL1-AS1
STXBP6	RAB33B
STARD13	PLA2G7
ST8SIA4	PLA2G4D
SPON2	OR7A17
SNORA59B	OR2L1P
SLCO2B1	OR1L3
SLC6A19	OR10A7
SLC16A6	NPHS1
SERPINA1	MYH6
S100A9	MPL
RIMS4	MGC16275
RASSF4	KIF26A
PTGES	KIAA1211
PSCA	KCNK12
PLEKHA7	KCNA1

PLCB2
PDE8B
NXPH3
NPW
NPR3
NPPB
NOXRED1
NFAM1
MYO7A
MYO1F
MLXIPL
MGAT3
MFSD2A
MFAP5
MFAP3L
MCAM
LY6G5B
LST1
LRRC36
LOC100129034
LILRA4
LILRA3
LDHD
KRT28
KRT23
KLK7
KLK5
KCNK6
KCNK13
ITGA7
IRF8
IL36A
IGFL2
IGF2BP3
IFI30
HPN
IL1RL1
IL10
HSD3B2
HOXD9
HOXD11
FBXO15
FBLN7
FAIM3
ENPP2
ELANE
DKK4
DEFB4A
CYP7B1
CYP3A5
CST2
CRHR2
CLCA3P
CD3G
CASQ1
C5orf60
C1orf116
C11orf53
B3GNT3
ANXA13
AGR2

HPD
HLA-DMB
HLA-DMA
HBBP1
GPX3
GGTLC1
FXYD6
FOLR4
FOLR3
FGFBP1
FGD3
FBXL16
FAM105A
ERN2
EPN3
ENTPD2
DKFZp434J0226
CYTH4
CYP1A1
CSF1R
CPN1
CMYA5
CHGA
CD163L1
CD163
CCR1
CATSPER1
CARD9
C1orf210
C19orf77
BLNK
BIN2
BDKRB1
ARHGDIB
APOE
APOC1

APOBEC4

APCDD1L

ALOX5

ADAP2

ABCA12

Table S7. Genes exhibiting altered methylation levels among ascetic fluid cancer cells collected before and after CapeOX and drug-resistant AGS cells.

Gene	Increase in methylation levels after CapeOX	Gene	Decrease in methylation levels after CapeOX	Gene	Increase in methylation levels of fluorouracil-resistant AGS	Gene	Decrease in methylation levels of fluorouracil-resistant AGS	Gene	Increase in methylation levels of oxaliplatin-resistant AGS	Gene	Decrease in methylation levels of oxaliplatin-resistant AGS
FAM193A	0.228	PI3	-0.400	NELL2	0.938	ABL2	-0.868	OR5AK2	0.942	SULT1C4	-0.897
FMO1	0.165	PDCD1LG2	-0.258	OR5J2	0.917	SGK223	-0.729	HBG1	0.899	DENND5A	-0.588
GPR75	0.142	IFI44L	-0.160	HBG1	0.907	IL32	-0.689	HBB	0.859	FAM111A	-0.575
NPHS1	0.140	SFTA1P	-0.106	OR51B4	0.883	PRRT1	-0.645	OR52I2	0.842	FAS	-0.547
SEMA3B	0.139			OR8K5	0.871	PPT2	-0.642	EHF	0.841	KCNQ1OT1	-0.541
ANGPTL7	0.139			SERPINB12	0.864	BCL2	-0.620	OR51B6	0.829	OR10A5	-0.540
YPEL3	0.136			HBB	0.858	PP14571	-0.594	OR51E1	0.822	HLA-DRA	-0.540
WISP1	0.126			LCE1D	0.857	NXNL2	-0.589	KRTAP19-1	0.804	ZNF23	-0.538
STK38L	0.126			KRTAP19-1	0.853	AHDC1	-0.581	UBQLNL	0.797	HEPHL1	-0.515
ARHGEF25	0.118			OR51B2	0.852	MFAP5	-0.563	MBNL1	0.794	BMP2	-0.495
SLC44A2	0.117			OR51M1	0.843	STX11	-0.562	OR51E2	0.787	SBF2	-0.495
MAB21L2	0.114			OR2M4	0.838	C1QTNF6	-0.557	OR51B5	0.775	GLIPR1L2	-0.475

OR10J1	0.111	LOC286094	0.834	FAS	-0.554	LOC150622	0.740	OR5M8	-0.466
KLK11	0.110	OR51E1	0.832	ZNF23	-0.552	CPSF4L	0.714	TOM1	-0.466
FXYD1	0.108	OR51B6	0.832	ZFR	-0.547	ST6GALNAC1	0.704	TMEM216	-0.464
GPR110	0.106	PPP1R3A	0.831	CYP2W1	-0.526	SORBS1	0.702	PROL1	-0.463
APBB2	0.106	OR10AG1	0.817	UPK2	-0.522	PRB4	0.697	LOC441666	-0.457
AREG	0.106	GDPD4	0.816	GNA15	-0.519	S100P	0.695	C1QTNF6	-0.446
ELF3	0.105	MBNL1	0.810	SLC6A13	-0.507	KIAA1467	0.694	DLEU2L	-0.429
PART1	0.105	PAR4	0.809	SPHK1	-0.505	OR2M4	0.685	LDLRAD3	-0.423
LOC285419	0.102	OR8H3	0.808	OLR1	-0.496	TFF1	0.682	DDAH1	-0.417
MSLN	0.102	DKFZp434L192	0.807	ACMSD	-0.489	OR5M11	0.678	ADAMDEC1	-0.413
ECEL1P2	0.102	PRB2	0.804	LARP1	-0.489	PRB2	0.674	ZBED3	-0.407
C1QA	0.101	C7orf62	0.802	ZBED2	-0.487	GDPD4	0.670	FGFR2	-0.374
PYGM	0.100	OR2G3	0.801	GLIPR1L2	-0.480	LINC00478	0.668	OR4F15	-0.373
		IPW	0.801	CYR61	-0.472	OR52N1	0.662	TMPRSS2	-0.372
		UBQLNL	0.798	FAM110C	-0.471	TRPV6	0.661	RAB37	-0.362
		PDE4B	0.795	PTRF	-0.470	PAPPA	0.654	HNF1A-AS1	-0.357
		OR52J3	0.795	AKAP2	-0.457	BAIAP2L2	0.647	IRF8	-0.356
		ZNF479	0.794	CCBP2	-0.454	POSTN	0.637	PPT2	-0.356
		PLN	0.791	GTF2IRD1	-0.453	C7orf62	0.637	GUCY2C	-0.355
		OR4X2	0.784	CCDC153	-0.453	RNF186	0.636	OLR1	-0.355
		SORBS1	0.777	SMARCA2	-0.445	OR2AK2	0.631	RPL23	-0.351
		SLC30A8	0.774	IL6	-0.443	OR51B4	0.630	FGD3	-0.351
		OR5D18	0.774	ALG1L	-0.442	OR51B2	0.629	CCDC71	-0.338

OR52A1	0.766	ARHGEF38	-0.442	OR2M5	0.628	PART1	-0.337
KRTAP6-2	0.762	CNDP2	-0.435	MC4R	0.628	OR4C13	-0.332
OR52E2	0.757	DDAH1	-0.433	TK2	0.619	OR2A7	-0.325
OR5T1	0.757	ARL14	-0.433	OR51M1	0.618	SDS	-0.323
TEX15	0.757	TRPC7	-0.431	SLC23A3	0.617	FLJ45340	-0.321
OR5T3	0.756	SCARA5	-0.427	OR4K2	0.614	WFDC13	-0.320
ZNF876P	0.755	HYAL1	-0.426	TM4SF1	0.612	SYT4	-0.320
KRTAP15-1	0.746	CCBL2	-0.422	IFITM3	0.611	SUSD1	-0.319
PRB4	0.744	PCDHB11	-0.421	EIF4G1	0.605	OR4N4	-0.319
LCE1B	0.740	IDI2-AS1	-0.420	CLEC19A	0.604	LINC00094	-0.319
OR51B5	0.739	SULT1C4	-0.416	LOC286094	0.603	PALMD	-0.318
LOC284578	0.737	LINC00277	-0.416	PRSS1	0.602	RAMP1	-0.317
OR51V1	0.736	RAMP1	-0.416	HBE1	0.600	C15orf23	-0.316
OR2M5	0.724	TEAD3	-0.414	LOC257358	0.600	SLC38A1	-0.315
PRSS1	0.721	UACA	-0.413	LINC00305	0.598	SGK223	-0.314
LOC150622	0.720	GPR87	-0.409	FLJ42289	0.594	LOC728613	-0.313
SERPINA9	0.718	LMCD1	-0.407	UBQLN3	0.592	OR6C70	-0.305
LCE3D	0.717	PROM2	-0.406	CCDC102B	0.592	EMR4P	-0.304
OR2AK2	0.714	NOTCH3	-0.404	SP100	0.579	SCARA5	-0.299
GZMK	0.712	HSD17B6	-0.400	TEX15	0.574	PMCHL1	-0.296
LCE2D	0.708	SUSD1	-0.400	CLEC1B	0.572	PTPRQ	-0.296
OR52R1	0.707	ANXA9	-0.397	PRB1	0.569	MRAP2	-0.295
OR5D14	0.706	TRPC1	-0.395	SNHG4	0.565	MPL	-0.283

CYP4A11	0.704	SYT4	-0.393	OR2G3	0.563	GRN	-0.280
OR5R1	0.704	FAM63A	-0.393	MAFG	0.558	AMTN	-0.280
MMP26	0.702	ZNF556	-0.387	SLC43A1	0.554	ANGPT2	-0.278
ADAM7	0.701	JPH3	-0.386	LCE1D	0.552	FAM186A	-0.272
OR8J3	0.698	SPACA7	-0.385	OR52A5	0.551	ADNP2	-0.271
UGT2A3	0.697	KNDC1	-0.383	MGAT4A	0.549	C17orf101	-0.270
OR5W2	0.693	C1orf56	-0.378	KRT6B	0.543	GAMT	-0.265
OR51A7	0.693	MSRA	-0.376	C17orf110	0.542	PCDH15	-0.264
OR10W1	0.686	EMP1	-0.373	LCE6A	0.542	TCAP	-0.261
KRTAP22-1	0.684	TMPRSS2	-0.372	GPR111	0.541	RFPL4A	-0.261
LINC00478	0.683	FST	-0.370	FGA	0.540	FGFBP1	-0.253
OR52D1	0.682	CALD1	-0.368	PI3	0.537	DRD3	-0.253
KPRP	0.682	MFSD1	-0.366	KPRP	0.537	BLOC1S1	-0.253
KRTAP7-1	0.677	WWP2	-0.358	LOC100127888	0.530	NTS	-0.251
PLA2G2E	0.676	DST	-0.355	C17orf96	0.529	RPH3A	-0.249
OR5M11	0.672	FNIP2	-0.349	PLEKHN1	0.529	TMEM132B	-0.249
FOLH1B	0.669	FGD3	-0.349	SPRR2G	0.527	CYR61	-0.248
OR9G4	0.668	GGT6	-0.349	YWHAE	0.522	HLA-DRB5	-0.246
LINC00052	0.667	DKFZP434A062	-0.345	LOC148145	0.522	CDH17	-0.244
OR56B1	0.664	YSK4	-0.345	SLC31A2	0.521	NCR1	-0.244
FAT3	0.659	BTBD9	-0.344	CDK14	0.516	BTBD9	-0.243
DKK4	0.658	GOLT1A	-0.342	PDE7B	0.515	FAM124A	-0.242
OR52E8	0.655	EMP2	-0.338	C16orf48	0.515	OR1N1	-0.242

ZNF727	0.651	CST6	-0.337	PGC	0.513	TSG1	-0.241
OR13A1	0.650	ARAP1	-0.337	GPX2	0.510	FLYWCH1	-0.239
OR8K3	0.649	HNF1A-AS1	-0.336	MSLNL	0.507	CORO2A	-0.237
OR8B2	0.648	NACAP1	-0.329	ATP2C2	0.507	PSG11	-0.237
SPINT4	0.648	LOC619207	-0.326	INPP5J	0.506	MSX2P1	-0.237
LCE2B	0.644	IRS1	-0.326	EMR3	0.506	SLCO1C1	-0.234
OR56A1	0.643	OR2A14	-0.324	GSDMC	0.505	C4orf50	-0.234
PGC	0.643	PTPRQ	-0.324	MIR7-3HG	0.504	CLEC10A	-0.233
CCDC102B	0.637	KIAA0664	-0.324	ODF3B	0.498	LUZP1	-0.232
C10orf10	0.637	AXL	-0.321	NRG4	0.495	SYN2	-0.232
POSTN	0.634	RHOD	-0.321	KRTAP12-2	0.492	PCDHGB1	-0.232
OR2M2	0.634	DENND3	-0.321	ONECUT2	0.492	ANKMY1	-0.232
YIPF7	0.632	MIA	-0.320	BRD4	0.492	ACY3	-0.229
SCN7A	0.628	MED12L	-0.319	OR56A3	0.492	APOA2	-0.229
PDE7B	0.626	SPRED3	-0.314	CFB	0.491	UGT2B11	-0.226
LCE6A	0.622	NTF4	-0.311	RIMS1	0.488	C14orf182	-0.225
PZP	0.621	PALMD	-0.310	LINC00052	0.485	SST	-0.225
SPRR2G	0.615	ATF6B	-0.309	LCE1E	0.485	SPRR2D	-0.225
SLC22A24	0.615	C8orf33	-0.308	KCNMB1	0.484	SRRM4	-0.225
PAPPA	0.613	CES3	-0.308	TFEB	0.484	DLGAP3	-0.223
XIRP2	0.612	ABLIM3	-0.307	CCRL2	0.484	B3GALT6	-0.220
OR4K2	0.612	SYDE1	-0.307	OR5AP2	0.483	METAP1D	-0.218
LOC148145	0.611	NOL10	-0.306	GALNT5	0.482	BTBD18	-0.217

CNGB3	0.610	BMP2	-0.306	GNAI2	0.482	CCDC144A	-0.216
HNF4A	0.609	POGLUT1	-0.303	SRPK2	0.480	PRAMEF20	-0.216
LSAMP-AS3	0.608	FAM186A	-0.302	KRTAP20-3	0.479	OR6C1	-0.215
PRB1	0.607	ELL2	-0.301	PLA2G2E	0.479	OR10A3	-0.215
LOC100131726	0.605	GAL3ST4	-0.297	CKMT1A	0.478	LRG1	-0.212
OR8D1	0.603	APOD	-0.296	OR8J3	0.478	DENND3	-0.209
OR8I2	0.602	C9orf69	-0.296	TBXAS1	0.478	CYP2A7	-0.208
BPIFA3	0.597	DNAH12	-0.295	PZP	0.476	HSD3B2	-0.208
GYPA	0.597	PACSIN2	-0.295	SH3TC1	0.476	AKAP2	-0.206
UBD	0.596	MOXD2P	-0.293	FREM1	0.471	LINC00410	-0.206
OR2T6	0.596	CHD8	-0.291	LIME1	0.470	ZNF117	-0.205
WFDC8	0.594	CC2D2A	-0.291	LCE1B	0.468	TUBB8	-0.205
OTUD7A	0.593	AMDHD2	-0.291	FUT1	0.468	C1QTNF4	-0.202
CSRNP3	0.592	HEPHL1	-0.290	SLA	0.467	ANKRD53	-0.202
OR8H2	0.592	ZNF827	-0.289	CSRNP3	0.464	ENTPD8	-0.201
LCE2A	0.591	ARC	-0.288	BTBD3	0.464	PRSS8	-0.201
APCS	0.589	MAPK8	-0.288	GBP1	0.464	CHST12	-0.201
C1orf68	0.589	EDN3	-0.288	DAPL1	0.463	LINC00277	-0.201
CDK14	0.586	BFSP1	-0.286	OR51T1	0.462	EMB	-0.201
OR2AG1	0.583	KIAA1549	-0.286	AKR1C4	0.461	HS3ST1	-0.199
UBQLN3	0.580	SEC16B	-0.285	SLC10A2	0.460	SCAMP5	-0.197
OR4C3	0.580	WIZ	-0.284	IL1RN	0.458	RTBDN	-0.196
SCN10A	0.580	TNFSF12	-0.283	PRG3	0.458	NCAM1	-0.194

INHBE	0.580	FAM71D	-0.280	C1orf68	0.457	FCAR	-0.193
PCK1	0.579	MRAP2	-0.280	OR8B2	0.457	SURF2	-0.192
ARHGAP15	0.579	PBXIP1	-0.280	DOC2B	0.454	DSG2	-0.191
OR4L1	0.579	TBL1XR1	-0.278	OR5D16	0.452	OR10H4	-0.191
OR51G1	0.579	TGM1	-0.277	LCE4A	0.452	TMC3	-0.191
MMP12	0.578	ZNF467	-0.274	TAAR9	0.449	SOX6	-0.190
MAFG	0.575	ZNF117	-0.274	OR10AG1	0.448	IFNA4	-0.190
C16orf78	0.575	PHF11	-0.274	FAM170B	0.447	LTBP3	-0.189
OPN5	0.574	PRAP1	-0.272	S100Z	0.446	LOC146481	-0.189
OR5AK2	0.570	NR2F1	-0.272	A1CF	0.445	LOC100128554	-0.188
OR51E2	0.567	CRIP1	-0.272	EVI5	0.444	LRRC3B	-0.188
KRTAP11-1	0.567	GRN	-0.272	REG3A	0.444	CSHL1	-0.187
OR2D3	0.566	ANKS4B	-0.272	PLN	0.443	FNIP2	-0.187
LCE4A	0.565	RAD51C	-0.271	C10orf10	0.443	CRYGS	-0.186
CYP2C9	0.564	TMCC2	-0.271	HMGB4	0.442	CCBL2	-0.186
OR8K1	0.564	LOC441666	-0.271	LSAMP-AS3	0.442	SEC16B	-0.185
OR2M3	0.564	BIK	-0.268	NAV2	0.441	SNORA33	-0.185
TAAR5	0.563	SNAPC4	-0.268	LGALS14	0.440	LINGO2	-0.184
FGF20	0.562	CRMP1	-0.266	CLEC12B	0.438	LIG4	-0.184
KRTAP19-6	0.561	ACRBP	-0.266	ACCSL	0.437	IFI16	-0.183
PCDHB17	0.560	AFAP1	-0.264	LOC100131726	0.437	PABPC3	-0.182
HAVCR1	0.558	ACY3	-0.262	USH1C	0.435	SERTAD4	-0.181
CLDN17	0.556	RPL22	-0.261	INHBE	0.434	TACC1	-0.181

OR5B17	0.555	MESP1	-0.261	AGMO	0.431	GJC3	-0.179
OR2H2	0.553	CHID1	-0.260	GRIA1	0.431	TAS2R10	-0.179
C17orf110	0.553	LAT	-0.260	HAVCR2	0.430	DEFB123	-0.178
RASAL3	0.553	NRGN	-0.258	OR10P1	0.430	NACAP1	-0.178
OR52E4	0.550	COMT	-0.258	OR52N2	0.429	PSMF1	-0.177
KRT6B	0.546	HBA2	-0.257	EDN2	0.429	BTNL9	-0.177
HBE1	0.546	MPP3	-0.256	OR51I2	0.428	ZNF37BP	-0.176
LPPR1	0.545	OR5M8	-0.255	C1orf158	0.426	MLLT1	-0.175
SLC10A2	0.544	KIF2A	-0.254	OR8K5	0.426	CLEC4M	-0.175
C20orf197	0.544	LOC728323	-0.254	SLCO1B3	0.425	AMOTL1	-0.175
VN1R4	0.540	VPS37B	-0.253	CD163L1	0.425	ACTL8	-0.175
REG3A	0.538	AGSK1	-0.253	TMEM200A	0.425	KRT18P55	-0.173
C21orf54	0.536	GDPD5	-0.252	OR2G6	0.424	WFDC9	-0.172
OR52A5	0.535	RMND5A	-0.251	FMN1	0.423	ANKS4B	-0.172
TIMM13	0.534	OR6C70	-0.251	OR5J2	0.423	ABCA1	-0.172
LOC100129055	0.534	FXYD7	-0.249	TMEM190	0.423	KTN1	-0.170
TMEM202	0.532	SFRP4	-0.247	SLC27A2	0.423	INPP1	-0.170
OR1Q1	0.530	LMO7	-0.247	CYP4F12	0.423	GIMAP4	-0.170
SEMG1	0.530	FAM26D	-0.245	OR5P2	0.422	BPIFC	-0.169
REG3G	0.530	DARS	-0.245	OR5T3	0.421	BRCA1	-0.169
A2M	0.529	CALCR	-0.245	ADH1B	0.420	CAMK4	-0.169
OR5AP2	0.529	KTN1	-0.245	PRSS37	0.420	ACADL	-0.168
XKR3	0.529	AGPAT4	-0.244	KRTAP19-6	0.419	SIX1	-0.167

LGALS14	0.523	CCDC136	-0.243	NPFFR2	0.418	OR2A14	-0.166
EMR2	0.522	OSBPL3	-0.243	MEP1B	0.416	ATP13A4	-0.166
TAS2R9	0.517	YPEL3	-0.243	DEFB131	0.415	TUBBP5	-0.166
KRTAP13-3	0.517	B3GALT6	-0.242	OR10W1	0.415	IGSF21	-0.165
HHATL	0.517	PCDHGB1	-0.239	AGR2	0.415	FPR3	-0.165
TPTE2	0.516	SKIL	-0.238	PCYT2	0.413	PATE4	-0.164
NFIL3	0.514	TOM1	-0.238	IMPG1	0.412	ELSPBP1	-0.163
OR4P4	0.513	FASTK	-0.236	OLFM3	0.409	OR12D3	-0.162
EMR3	0.513	ACOT7	-0.236	PLCL2	0.408	LOC441455	-0.161
OR4S1	0.509	KLHDC5	-0.236	IFNA8	0.407	GSG1L	-0.161
OR6A2	0.507	SNORA33	-0.235	UGT1A6	0.407	DYRK2	-0.160
HBBP1	0.506	ANO4	-0.235	SECTM1	0.406	ZNF702P	-0.160
KRTAP19-4	0.506	NPAS2	-0.235	FGF20	0.405	SNORA37	-0.160
GPX2	0.503	SAA3P	-0.234	HLA-DQB1	0.405	ARL14	-0.157
TM4SF1	0.502	RPLP1	-0.234	C1QTNF7	0.405	RALGPS1	-0.157
OR5D16	0.500	PRINS	-0.234	FXYD4	0.404	ZNF675	-0.157
OR4A16	0.500	SURF2	-0.232	CNGB3	0.403	CCDC105	-0.157
NWD1	0.499	GALNT12	-0.231	BCMO1	0.401	LOC619207	-0.156
FBXO41	0.499	CLEC4M	-0.231	OR4N5	0.401	ROPN1L	-0.156
OR5M1	0.498	PDILT	-0.231	OTUD7A	0.400	SLCO1B1	-0.156
OR52B2	0.497	DNLZ	-0.230	FAM66D	0.399	GSTTP1	-0.156
RUNX1T1	0.497	RNF151	-0.229	FBLIM1	0.398	OR6B3	-0.156
LCE1E	0.496	ZNF280D	-0.229	SERPINE1	0.398	ANKRD2	-0.154

GPR141	0.494	ZNF606	-0.228	HOMER3	0.394	CUL1	-0.153
APOA2	0.492	LY6G6D	-0.228	NMS	0.394	LRRN4	-0.152
CYP2A13	0.492	KRT13	-0.228	TPTE2	0.394	C5AR1	-0.150
OR8U1	0.491	ALPK2	-0.228	OR4K17	0.392	FCRL1	-0.150
NDN	0.490	DISP2	-0.226	VPREB1	0.390	ZNF790	-0.150
OR51I1	0.490	NRXN1	-0.226	OR2M2	0.389	OAZ3	-0.150
C4orf6	0.486	ENHO	-0.226	C20orf160	0.389	FAM21C	-0.149
LIPI	0.484	OLA1	-0.226	FAM19A1	0.388	SPRED3	-0.148
OR1J2	0.482	OAZ3	-0.226	MVP	0.387	PRAMEF22	-0.148
LCE1C	0.480	SULT1A2	-0.222	ELMO3	0.387	PKD2L2	-0.148
OR10P1	0.479	KCNE3	-0.220	LOC644649	0.384	H19	-0.147
OR52N1	0.478	CAMK2N2	-0.219	GGT6	0.384	GZMA	-0.146
OR1J4	0.478	KIAA0284	-0.219	OR4C3	0.384	MEF2A	-0.145
LOC100128554	0.477	GPR110	-0.218	CD53	0.384	ZNF91	-0.145
CHODL-AS1	0.477	MINPP1	-0.218	UEVLD	0.382	IL17A	-0.145
OR2H1	0.476	SMCR5	-0.215	NHSL1	0.381	MBD3L1	-0.144
OR52N2	0.475	KCNH8	-0.215	IFI44	0.381	ZNF521	-0.144
ALDOB	0.474	RTN4RL1	-0.215	PSORS1C3	0.381	BBOX1	-0.144
KLHL10	0.473	RPH3A	-0.214	VN1R4	0.381	KLK3	-0.143
KRTAP13-1	0.473	MLANA	-0.214	TEAD1	0.381	NOL10	-0.143
TAAR9	0.471	C1orf21	-0.214	OR4A16	0.381	GBAP1	-0.143
SH3GLB1	0.470	ACPL2	-0.214	C10orf108	0.380	LOC339535	-0.142
GNG3	0.468	CAPN2	-0.214	CMKLR1	0.380	C9orf24	-0.142

IQCF2	0.468	TUBBP5	-0.213	OR5B3	0.379	GPR32	-0.142
C16orf48	0.468	TNRC6B	-0.213	GPR115	0.379	CDX2	-0.141
MYH6	0.464	NUP188	-0.212	C15orf38	0.379	AGSK1	-0.140
FLJ42289	0.464	VCAM1	-0.212	ARNTL	0.378	MMP24	-0.139
SLC18A1	0.464	MAFA	-0.211	TNFAIP8L2	0.378	PCDHA10	-0.138
APLNR	0.463	TACC1	-0.211	OR2M3	0.377	SPATS2	-0.138
PDYN	0.463	A2ML1	-0.211	KCNH8	0.377	ALPP	-0.137
RIMS1	0.461	CLMN	-0.208	PIN1P1	0.376	OR4N3P	-0.137
DEFB131	0.460	DNMT3A	-0.208	DLGAP2	0.375	LOC284551	-0.137
CD163L1	0.460	DPPA2	-0.207	HBD	0.375	KCTD8	-0.136
OR2L8	0.460	SIGLEC5	-0.207	ARHGEF38	0.374	PRRT1	-0.136
IL7R	0.460	CCR5	-0.206	SMTNL1	0.374	HSPA1A	-0.135
OR51I2	0.459	HNMT	-0.205	OR5H15	0.373	SGCD	-0.134
LCE1A	0.456	LYPD6B	-0.205	OR5B17	0.373	DCAF4	-0.134
EVI5	0.455	ADAMTSL2	-0.205	KLK13	0.373	PAH	-0.134
OR1M1	0.455	NEIL1	-0.205	LRRN3	0.372	GPS1	-0.134
SPOP	0.454	TRABD	-0.204	KRTAP22-2	0.372	ZNF175	-0.134
OR4K13	0.453	EPHX2	-0.204	NFIL3	0.371	HLA-DPB1	-0.133
GYPB	0.453	ELOVL7	-0.201	PLEKHG6	0.370	SCN10A	-0.133
OR4A15	0.453	ZNF512B	-0.201	OR4K1	0.370	NPPA	-0.133
MAS1L	0.452	SETD7	-0.201	TMEM139	0.370	GPRIN2	-0.132
NLRP13	0.452	C6orf47	-0.201	LOC100131551	0.370	NFATC2	-0.130
FCRL1	0.452	TMC6	-0.200	C2orf72	0.369	MRGPRX4	-0.130

C1orf158	0.452	LINC00162	-0.199	SIGIRR	0.367	DISP2	-0.130
MC4R	0.452	FLYWCH1	-0.198	UCK1	0.366	IAPP	-0.130
ACCSL	0.451	ZNF134	-0.198	RERGL	0.366	KIAA1549	-0.130
LOC644649	0.449	CSDC2	-0.196	ITGB7	0.366	LPPR2	-0.130
OR5P2	0.448	SNORD17	-0.196	COMT	0.365	TMEM179	-0.129
KRTAP19-2	0.448	AMMECR1L	-0.195	IGFL1	0.365	HNRNPCL1	-0.129
TK2	0.448	FAM5C	-0.195	SLC30A8	0.364	SLC7A14	-0.128
OR4K17	0.447	C6orf136	-0.195	ARL6IP4	0.364	FAM167A	-0.128
FUT1	0.447	OR2A7	-0.194	VTCN1	0.363	TBC1D29	-0.128
OR9G1	0.446	SBF1P1	-0.193	MS4A8B	0.362	UBE2D4	-0.128
C1QTNF7	0.445	KLK8	-0.193	SYT13	0.362	TTC30A	-0.128
OR4D1	0.444	ZNF814	-0.193	KRTAP23-1	0.362	HEPN1	-0.127
SCGB1D1	0.443	RALGPS1	-0.193	KRTAP19-2	0.361	GPX3	-0.127
SLC26A7	0.440	JPH2	-0.192	PAR5	0.361	APOC1	-0.126
C20orf160	0.439	KLK13	-0.191	MEF2D	0.359	PYDC2	-0.126
SDC4P	0.438	SIX1	-0.190	ZNF727	0.359	CRY2	-0.125
OR5AS1	0.438	TMEM132B	-0.190	ZNF767	0.359	FRMD6	-0.125
HAVCR2	0.436	SCEL	-0.189	CCT8L2	0.359	OR4S1	-0.124
GRM8	0.436	H19	-0.188	FAM151A	0.359	KRTAP9-3	-0.124
TNFSF10	0.435	FBRSL1	-0.187	DAGLA	0.357	KRTAP9-9	-0.124
TRIM77P	0.435	CYP21A2	-0.187	SP140L	0.357	RLN2	-0.124
NOX4	0.433	RHBDL2	-0.187	REG1B	0.357	ODF3	-0.123
CHGA	0.431	ZNF548	-0.187	KRTAP6-3	0.357	ZNF606	-0.122

TAAR8	0.431	AK8	-0.187	SLPI	0.357	PRAMEF1	-0.122
GP1BB	0.431	MDFI	-0.186	LITAF	0.356	CEACAM22P	-0.122
GRM3	0.428	IFITM1	-0.185	OR6M1	0.355	C21orf128	-0.121
OR2L3	0.428	MYO1A	-0.185	OR6F1	0.354	OR14I1	-0.121
LOC100131551	0.427	SLC38A8	-0.184	IAH1	0.353	CT62	-0.121
OR6T1	0.427	KIAA1522	-0.184	HLA-DOB	0.353	LOC646498	-0.120
CHRNA6	0.426	SLC39A2	-0.184	C17orf108	0.352	PGBD2	-0.120
OR8G2	0.426	PLAC8	-0.184	PCDHB2	0.352	SPRR1B	-0.119
TMEM200A	0.426	C2orf69	-0.184	CD209	0.352	TTC28	-0.119
NR1H4	0.425	IL27RA	-0.183	OR8H3	0.351	MIA	-0.118
CYP4F11	0.425	ASPHD1	-0.183	CCDC92	0.351	PROKR2	-0.117
DEFB116	0.425	ESM1	-0.181	ZNF479	0.350	ASB18	-0.117
CLC	0.423	ZBED4	-0.180	MMP12	0.350	CDH10	-0.117
TIMD4	0.422	SERTAD4	-0.180	LGALS4	0.350	CSDC2	-0.117
OR7D4	0.420	OR10K1	-0.180	GAS2	0.349	LOC440905	-0.116
OR51A2	0.420	ANKRD2	-0.179	REG3G	0.349	EPOR	-0.116
DAPL1	0.418	BLOC1S1	-0.179	PAR1	0.348	PCDHB10	-0.116
GLIPR1	0.417	DLGAP3	-0.178	OR2L8	0.348	CBX6	-0.115
PEAR1	0.411	ENPP2	-0.178	MYL5	0.348	UBTFL1	-0.115
CD207	0.409	C9orf173	-0.178	TRIM38	0.346	CACNG5	-0.115
OR5M10	0.405	LOC284023	-0.178	AIM1	0.345	TMC7	-0.115
CLEC1B	0.404	ACADL	-0.178	LINC00483	0.344	HLA-F-AS1	-0.115
OR5L1	0.403	CCDC71	-0.177	PPP1R17	0.344	CYP26B1	-0.115

SLC22A10	0.403	RAB7L1	-0.177	CHODL-AS1	0.343	VIP	-0.114
CLECL1	0.400	MSLN	-0.176	KRTAP2-4	0.343	FRS2	-0.114
OR5M3	0.399	SYT14	-0.176	LIPI	0.342	OVGP1	-0.114
FAM71C	0.399	MIA3	-0.176	OR10G7	0.341	RGS2	-0.113
DEFB1	0.398	DBNDD2	-0.176	SNORD124	0.341	NMU	-0.113
ELAVL4	0.398	FIGNL2	-0.176	IL23A	0.341	STX11	-0.113
LCE3E	0.397	LOC285401	-0.175	DMBT1	0.340	C3P1	-0.113
MMP3	0.396	EPB41L1	-0.174	ZNF217	0.340	MAP4K2	-0.113
FGF21	0.396	PTGS2	-0.173	TMEM82	0.340	CEP112	-0.113
TRPV6	0.395	NLRP1	-0.173	TRIM77P	0.339	HHAT	-0.113
OR6F1	0.395	SLC25A29	-0.173	DST	0.339	FRRS1	-0.113
PGA3	0.394	FAM84A	-0.173	EPS8L1	0.339	C16orf96	-0.112
THSD7B	0.394	KIAA1217	-0.173	GLIPR1	0.339	BFSP1	-0.112
ITGA7	0.394	TNFSF13	-0.172	REG1A	0.338	KRTAP5-10	-0.112
IGFL1	0.392	SRA1	-0.171	MMP3	0.338	C19orf12	-0.112
LOC153910	0.392	ZNF615	-0.170	C22orf25	0.338	PTGS2	-0.111
KRTAP20-4	0.392	IFIT1	-0.170	CCL13	0.338	STX19	-0.111
IFNA7	0.391	KC6	-0.169	OR10S1	0.337	ARNT2	-0.111
XDH	0.391	SRPK2	-0.168	MSLN	0.336	PGM5	-0.111
S100A7	0.390	ENTPD8	-0.168	IL17RC	0.336	LILRB4	-0.111
PAR1	0.389	BCHE	-0.166	MICAL2	0.335	FLJ10661	-0.111
OR4N5	0.389	CACNG5	-0.166	MAPK8IP1	0.335	PLAC8	-0.111
SERPINB11	0.388	HCRTR1	-0.165	FGF21	0.335	HAS3	-0.110

KLK2	0.387	CFC1	-0.165	PHF2	0.335	ZNF732	-0.110
OR4A47	0.386	INSL4	-0.165	TAAR8	0.334	LOC340094	-0.109
LRTM1	0.385	MED13L	-0.165	TSPAN33	0.333	YSK4	-0.109
TFF1	0.384	GBAP1	-0.164	SLC16A3	0.332	SPRN	-0.109
PAR5	0.384	FAM159B	-0.164	NOX4	0.332	LCA5L	-0.109
KRTAP6-3	0.383	ZNF613	-0.164	ARHGAP15	0.331	CDC14C	-0.108
OR10G7	0.382	GNAZ	-0.164	ENHO	0.331	MLL3	-0.108
PIN1P1	0.380	CCKBR	-0.164	TRDMT1	0.330	LOC643406	-0.108
FAM24A	0.380	AGPAT1	-0.163	COL6A1	0.330	HRAS	-0.107
KRTAP19-8	0.379	HLA-DRA	-0.163	BCL2L14	0.330	OR8D4	-0.107
OR5D13	0.378	ZNF614	-0.163	RASSF9	0.330	DEFA3	-0.107
HBD	0.378	SCN4B	-0.163	KIF12	0.330	KLB	-0.106
GALNT5	0.378	ZNF420	-0.162	MSMB	0.329	LIMCH1	-0.106
OR4D2	0.378	PLEKHA4	-0.162	ZKSCAN3	0.328	LILRB1	-0.106
NOD2	0.378	NDFIP1	-0.161	KIAA1683	0.327	HLCS	-0.105
OR4K1	0.378	SIGLEC6	-0.160	AHSP	0.327	S100A7A	-0.105
ELSPBP1	0.377	IGF2BP2	-0.159	APITD1	0.327	ERC2	-0.105
SLC36A2	0.377	CEACAM5	-0.159	CHRNA6	0.327	C12orf39	-0.105
COL6A5	0.377	NDRG2	-0.159	OR4A15	0.324	HNMT	-0.105
MEP1B	0.376	METRN	-0.159	ACPL2	0.323	CACNG6	-0.105
NTS	0.376	C9orf9	-0.158	OR52R1	0.322	TRIM21	-0.104
DEFB124	0.376	RASSF1	-0.158	FLJ46361	0.322	NPR3	-0.104
ACTL9	0.375	CT62	-0.158	TREX1	0.322	LOC728875	-0.104

OR5AN1	0.374	FAM136A	-0.158	GP1BB	0.322	PLEKHF2	-0.104
PCDHB2	0.374	SARS	-0.158	XKR3	0.322	PRKACG	-0.103
CAMK1G	0.374	AXDND1	-0.157	SAMD9	0.321	ATF7IP	-0.103
OR2T1	0.373	LRRC27	-0.157	OR8G2	0.321	LOC284009	-0.103
KRTAP12-2	0.372	DEFB126	-0.156	PRR21	0.320	NFYB	-0.102
C14orf177	0.372	LINC00094	-0.156	CHGA	0.320	RGS13	-0.102
OR7D2	0.371	CAMKK2	-0.155	OR2A42	0.320	OR10J5	-0.102
CCDC92	0.370	PFKP	-0.153	MAS1L	0.319	CXCR1	-0.102
OR2L2	0.370	PKD2L2	-0.153	PRSS33	0.319	FFAR3	-0.102
CCL23	0.369	DNALI1	-0.152	SPATA12	0.319	DEFB119	-0.102
FLJ46361	0.368	LTBP3	-0.152	CLSTN3	0.318	SPRR2B	-0.101
C8orf34	0.368	HOXC13	-0.151	OPN5	0.318	HSPA6	-0.101
LGALS4	0.367	SLC27A2	-0.150	OR2M7	0.317	FANCE	-0.101
OR6Q1	0.367	CTSL3	-0.149	GNG12	0.316	SLC17A1	-0.101
OR51T1	0.366	ARCN1	-0.149	RILP	0.316	SPDYE4	-0.100
KRTAP2-4	0.365	ACSF2	-0.148	PYHIN1	0.316	ZNF701	-0.100
REG1B	0.365	PHF2	-0.148	MMP26	0.315		
CYP4A22	0.365	F13B	-0.148	GRM1	0.315		
KRTAP23-1	0.365	PAPL	-0.147	CCDC102A	0.315		
TBXAS1	0.365	TMEM95	-0.147	TNFRSF9	0.314		
TCL6	0.364	LRRN4	-0.147	MKRN7P	0.313		
OR13C4	0.363	FEZF2	-0.146	IQCF2	0.313		
PRAMEF12	0.363	MAP4K2	-0.146	RASSF1	0.313		

OR6K2	0.363	HSD17B2	-0.146	BMF	0.312
LHX6	0.363	PCDHGB8P	-0.146	UPK3B	0.312
LOC100127888	0.362	FGFBP1	-0.146	GYPA	0.312
ZKSCAN3	0.362	MMD	-0.145	LGALS9	0.312
RERGL	0.362	VASN	-0.144	BPIFA3	0.311
CD5L	0.361	PRODH2	-0.144	C4orf19	0.311
PRAMEF4	0.361	KANK1	-0.143	PCDHB17	0.310
AQP10	0.360	ST5	-0.143	CARTPT	0.309
TEAD1	0.360	DSCR9	-0.143	NWD1	0.309
OR1L3	0.360	ZNF160	-0.142	SLC6A19	0.309
DMBT1	0.357	NME2	-0.142	SLC36A2	0.308
OR52L1	0.357	SMAD5	-0.142	DNAJC5B	0.308
LOC389033	0.356	GJC3	-0.142	DNMT3B	0.307
HAMP	0.356	C8orf86	-0.142	LIPH	0.307
C20orf79	0.356	SHH	-0.142	SEC14L3	0.306
GPR142	0.356	TMEM114	-0.141	ANGPT4	0.306
CDK10	0.356	LRRC3	-0.140	C7orf66	0.306
CYP4F2	0.355	ZBTB40	-0.140	SERPINA9	0.306
LCP2	0.355	SVOPL	-0.139	AGA	0.306
IMPG1	0.354	SELL	-0.139	LDHD	0.306
ZNF610	0.353	MEF2D	-0.138	LCE1C	0.305
INSL5	0.353	KCTD8	-0.138	OR4K13	0.304
TFAP2B	0.350	CSRP2	-0.138	C17orf109	0.304

ZNF404	0.350	TTC30A	-0.138	HAVCR1	0.304
OR5B3	0.349	SOX13	-0.137	LOC441204	0.304
OR7C1	0.348	CD209	-0.137	C17orf77	0.303
S100P	0.348	SST	-0.136	WFDC6	0.303
FBLIM1	0.347	HRAS	-0.136	CFHR4	0.302
CLEC19A	0.347	GALNT6	-0.136	LOC285501	0.301
SLC24A5	0.347	LCTL	-0.136	OR1M1	0.301
LPO	0.346	C4orf26	-0.136	ABI3BP	0.301
PRKG2	0.345	ARG1	-0.135	DPP6	0.300
C7orf66	0.345	SFTPD	-0.135	TMEM225	0.300
DEFB121	0.344	PLA2G4E	-0.135	OR51F2	0.300
KCNMB1	0.344	C2orf62	-0.134	FABP5	0.298
OR6C4	0.343	DDN	-0.134	ACRBP	0.298
SH3TC1	0.342	FANCE	-0.134	GRAMD1B	0.298
ACR	0.341	ZNF461	-0.134	MAB21L1	0.298
PAX4	0.340	SHBG	-0.133	LOC100129055	0.298
C4orf19	0.340	LY6G6E	-0.133	OR7G3	0.297
IL5RA	0.339	KIAA1671	-0.133	SPINK14	0.297
PLCL2	0.339	ZNF468	-0.132	HABP2	0.297
LCK	0.338	DYX1C1	-0.132	HTR5A	0.297
ANK2	0.337	ZNF264	-0.132	LOC202181	0.296
ZNF71	0.337	CNOT6	-0.132	UNC13C	0.296
NAV2	0.336	CCNDBP1	-0.131	SEL1L2	0.296

OR52I1	0.336	ADORA1	-0.131	SOX13	0.295
CCT8L2	0.336	GNG13	-0.131	OR8H2	0.295
OR2T4	0.335	C14orf64	-0.131	TUB	0.295
SLA	0.333	C19orf26	-0.131	REG1P	0.295
OR5T2	0.333	UCA1	-0.130	FLJ41941	0.294
CCR2	0.333	HAPLN2	-0.130	OR5T1	0.294
VPREB1	0.332	ZNF132	-0.130	LOC389033	0.294
ZNF217	0.332	WHAMM	-0.130	LIMS1	0.293
TREM2	0.332	GAL3ST2	-0.130	LPL	0.293
CD53	0.331	GPI	-0.129	MTERF	0.293
OR2T33	0.331	FAM100A	-0.129	CLEC11A	0.293
MYCT1	0.331	ZC3H14	-0.129	ALDH3B1	0.293
HPYR1	0.330	C20orf24	-0.129	KRTAP21-1	0.292
ZNF705A	0.329	NES	-0.128	HPYR1	0.292
CARTPT	0.329	BCR	-0.128	FAM196B	0.292
OR7A17	0.326	SLC22A18AS	-0.128	OR3A4P	0.292
HTR3B	0.325	CCDC124	-0.127	BPIFB1	0.291
C11orf53	0.324	CREM	-0.126	RXFP4	0.291
OR3A4P	0.324	LOC155060	-0.126	LCE2D	0.291
OR8H1	0.324	LINC00238	-0.126	SULT1E1	0.290
OR52I2	0.324	IGFBP6	-0.126	RP1	0.290
ABCD2	0.324	ZNF107	-0.126	GLYATL3	0.290
ADAM28	0.324	PYDC2	-0.125	SAMD11	0.289

LOC93432	0.324	TPPP	-0.125	CRMP1	0.289
CLEC11A	0.324	OR6C75	-0.125	PKIG	0.288
OR51G2	0.323	KRTAP5-5	-0.124	FAM160A1	0.288
PANX3	0.322	PATE4	-0.124	MRPL23-AS1	0.288
MYL5	0.322	LIG4	-0.124	OR8A1	0.288
OR7G2	0.322	ATP6V1G1	-0.123	NELL2	0.287
ANO2	0.322	SPIRE2	-0.123	ZNF876P	0.287
UG0898H09	0.322	STRA6	-0.123	INSL5	0.287
DNTT	0.321	LRP8	-0.122	GYPB	0.287
FCRLA	0.321	EXTL3	-0.122	SLC15A5	0.287
LAIR2	0.321	STX19	-0.122	OR2H1	0.287
OR4C16	0.320	RBMXL1	-0.122	OR5T2	0.286
UNC5CL	0.320	LFNG	-0.121	IL7R	0.286
NSFL1C	0.320	HLA-DRB6	-0.121	ACMSD	0.286
ATCAY	0.319	KIF12	-0.121	GC	0.286
FREM1	0.319	MLLT1	-0.121	ACER3	0.286
CLEC4D	0.319	SOCS5	-0.120	ARHGEF18	0.285
PDZRN4	0.319	ZNF80	-0.120	POTEE	0.285
KIF2B	0.318	SLC17A6	-0.120	LIX1	0.285
RPL13AP17	0.317	FRRS1	-0.119	G6PC	0.285
ATP2C2	0.317	ARHGEF19	-0.119	ITLN1	0.285
WFDC10B	0.317	LOC285501	-0.119	ALDOB	0.285
SPINT3	0.316	CPT1C	-0.119	ESRRG	0.285

CNTN1	0.316	ALDH5A1	-0.119	LCE3D	0.284
C4orf22	0.316	ARHGEF40	-0.119	TRIM29	0.284
OR4N2	0.316	PTGES2	-0.118	ATOH1	0.283
BRD4	0.316	BCAR3	-0.118	KRT23	0.283
MGC21881	0.316	C10orf91	-0.118	FAM118A	0.283
FNBP1	0.314	CD44	-0.118	PDZD3	0.283
ZNF492	0.313	CFB	-0.118	LINC00294	0.283
TSPAN33	0.312	PROL1	-0.117	GNB5	0.282
LILRA3	0.311	GJB3	-0.116	TNFSF10	0.282
OR4C15	0.310	TMEM139	-0.116	LINC00346	0.282
KRTAP22-2	0.309	DDX19B	-0.116	DNMBP	0.282
NLRP9	0.309	RGS2	-0.116	KCNJ2	0.282
GRM4	0.308	HLCS	-0.115	C11orf91	0.281
OR13C3	0.308	PDCD1LG2	-0.115	ACR	0.281
KRTAP19-7	0.308	MAN2B2	-0.115	TENC1	0.280
CNBD1	0.308	KLHL3	-0.114	EDN3	0.280
SEC14L3	0.307	ZNF211	-0.114	FAM83F	0.280
PPP1R17	0.307	ACTR3B	-0.114	DCN	0.278
OR11H6	0.307	GLUL	-0.113	UBD	0.278
SFTA1P	0.307	SLC12A5	-0.113	PCK1	0.278
GZMA	0.306	PSD	-0.113	ZBTB40	0.278
UGT3A2	0.305	GGN	-0.113	LALBA	0.277
FSD1L	0.305	NEK6	-0.112	PAX4	0.277

EBI3	0.304	NGDN	-0.112	PRAMEF4	0.277
BPIFA1	0.304	FAM111A	-0.112	PCDHA4	0.276
OR51S1	0.303	NPEPL1	-0.112	SLC39A4	0.276
OR5V1	0.303	PLEKHF2	-0.112	OAS1	0.276
IFI44	0.303	ZNF83	-0.112	OR6C4	0.275
GRM5	0.302	FAM21C	-0.111	RIN1	0.275
HTR5A	0.301	C12orf10	-0.111	HLA-C	0.275
SCN3A	0.301	RAB37	-0.111	OR1F1	0.275
OR4C6	0.301	VEPH1	-0.110	XDH	0.274
FLJ41941	0.299	TRIT1	-0.110	CD5L	0.273
GGT8P	0.299	CD1A	-0.110	CCDC64B	0.272
REG1A	0.298	OSR2	-0.109	LRFN4	0.272
NAT8	0.298	DEFB119	-0.109	ATCAY	0.272
FSHB	0.297	ZNF445	-0.109	MGP	0.272
OR5I1	0.297	GLRX	-0.109	RAET1E	0.271
ADAMDEC1	0.297	TBKBP1	-0.109	DLL3	0.270
OR2L1P	0.296	ZNF816	-0.109	MAPK15	0.270
ST6GALNAC1	0.296	PARP11	-0.108	DSCR9	0.269
OR4S2	0.296	C2orf54	-0.108	CLIP2	0.269
UCK1	0.295	SLCO5A1	-0.108	OR5AU1	0.269
CNGA4	0.295	DOC2B	-0.108	OR10C1	0.269
OC90	0.295	GAMT	-0.108	HNF4A	0.268
OR2M7	0.294	GPS1	-0.108	SH3BGR	0.268

POTEE	0.293	OR10J1	-0.108	CLDN17	0.268
PRSS33	0.292	TM4SF19	-0.107	WISP2	0.268
LOC339568	0.291	C15orf38	-0.107	KBTBD10	0.268
C21orf15	0.291	FOLR1	-0.107	CPNE2	0.267
OR1A2	0.290	NLRP4	-0.107	TRIT1	0.267
TREML4	0.290	ZNF442	-0.106	FSHB	0.266
FLJ25758	0.290	NFYB	-0.106	LOC285548	0.266
AMBRA1	0.289	PRELP	-0.105	DBNDD2	0.266
PWRN1	0.289	PITPNA	-0.105	C20orf118	0.265
DEFB104B	0.289	CYP26B1	-0.104	DARC	0.265
EPX	0.288	RNASEL	-0.104	OR13C4	0.265
LOC285548	0.287	RRP1B	-0.104	SPP2	0.264
RDH8	0.287	CSRP2BP	-0.104	THSD7B	0.264
ODF3B	0.286	OR14C36	-0.104	FSD1L	0.264
ZG16B	0.286	FAM57B	-0.103	LSAMP	0.264
FMN1	0.285	ATF7IP2	-0.103	KRTAP19-7	0.263
FLJ33360	0.285	DLL4	-0.103	GZMB	0.263
CFHR5	0.285	PURG	-0.103	DKK4	0.262
POTED	0.285	WRN	-0.103	SUSD2	0.262
OR10C1	0.285	LRRC56	-0.103	SLC18A1	0.262
ABP1	0.284	RANBP3L	-0.102	TMCO5A	0.261
TUSC3	0.283	HAPLN3	-0.102	AGBL2	0.261
A1CF	0.282	RAP1A	-0.102	OR7D2	0.261

LALBA	0.281	SYNGR3	-0.102	GGT8P	0.261
TAS2R8	0.281	LUC7L	-0.101	HHATL	0.260
LSAMP	0.280	GNE	-0.101	IFI30	0.259
SCHIP1	0.280	CIITA	-0.101	CLSTN1	0.259
SLC23A3	0.280	KREMEN2	-0.101	CYP4F2	0.259
CMA1	0.279	CST5	-0.101	OR2T34	0.258
PCSK2	0.279	C17orf101	-0.100	ITGB4	0.258
SPP2	0.278			LINGO4	0.257
CRP	0.277			RASL11B	0.257
MARCKSL1	0.277			GDPD3	0.257
TTC29	0.277			LCK	0.257
LCE2C	0.277			C6orf118	0.256
CRH	0.277			CNTN1	0.256
IL10RB	0.276			NDUFA4L2	0.255
GPR144	0.276			ZNF787	0.255
OR4N4	0.276			FOLH1B	0.255
FGG	0.275			AKAP7	0.255
CCL1	0.274			LOC100124692	0.255
OR5AR1	0.274			KIAA0664	0.254
LOC150568	0.273			LOC284837	0.254
MSR1	0.273			TRIM65	0.253
SPINK14	0.272			LOC284578	0.253
TRIM29	0.272			OR10J3	0.252

OR2G6	0.272	FOXK1	0.252
GPR78	0.271	MDS2	0.252
ITLN1	0.271	SLC24A5	0.252
FAM196B	0.270	SH3GLB1	0.251
SERPINB3	0.270	KRTAP22-1	0.251
WIPF3	0.270	CD207	0.251
OR56A3	0.269	OR51Q1	0.251
KRTAP5-3	0.267	BCL9	0.251
DEFB105B	0.266	GPR144	0.251
DEFB106B	0.266	EPN1	0.250
ENAH	0.266	TM4SF19	0.250
CHST4	0.266	PDZK1IP1	0.250
KRTAP12-4	0.265	TAS2R13	0.250
C12orf50	0.264	PCSK2	0.249
REG1P	0.264	C20orf197	0.249
PRSS37	0.263	ANO2	0.249
GRIA1	0.262	PRAME	0.249
ANGPT4	0.262	NRXN2	0.249
OR5L2	0.262	C1QC	0.249
PROP1	0.262	SLC39A2	0.249
EPN1	0.261	SPINT4	0.249
OR1C1	0.261	TAPBP	0.249
LHFPL4	0.261	NRTN	0.248

SLPI	0.261	AKR1CL1	0.247
FMO5	0.261	LOC150568	0.246
CFHR4	0.260	UBA7	0.245
KIAA1984	0.260	OR56B1	0.244
TNR	0.260	PER1	0.244
IGSF5	0.259	OR2L2	0.244
C2orf72	0.259	TREML4	0.244
DNMBP	0.258	MALL	0.244
MAB21L1	0.258	KIFC3	0.243
RTN4RL2	0.258	NRBP2	0.243
ZNF329	0.257	SHD	0.243
LPL	0.257	PDZRN4	0.243
CD1B	0.257	ANXA8L2	0.243
FAM160A1	0.256	HIST1H4A	0.243
GABRA6	0.256	PRSS35	0.243
SMOX	0.256	OR10X1	0.243
OVCH2	0.255	ACAP1	0.242
TAAR1	0.255	C2CD4A	0.241
RP1	0.255	UBXN6	0.241
TAAR6	0.255	TUBAL3	0.241
CSF2	0.255	SELENBP1	0.241
MUC16	0.253	TIMM13	0.241
ADH4	0.253	OR5W2	0.241

LOC284837	0.252	ST6GALNAC6	0.240
SAMD11	0.252	KRTAP6-2	0.240
TCHH	0.251	ARFGAP3	0.239
CLEC2B	0.250	ZFHX3	0.239
FSHR	0.250	FAM108A1	0.239
SLC6A19	0.250	TMPRSS11E	0.239
SNUPN	0.250	LOC730668	0.239
TMIGD1	0.250	RP11-165H20.1	0.238
KCNJ2	0.250	BHLHE22	0.238
CDH22	0.249	HLA-E	0.237
DCN	0.248	MARCKSL1	0.236
NRTN	0.248	TCTEX1D4	0.236
OR2T2	0.248	LOC90784	0.236
ZNF835	0.248	OR2T1	0.236
GABRG2	0.246	GLRX	0.235
OR5P3	0.246	LRTM1	0.235
CAD	0.246	C8orf33	0.234
SH3BGR	0.245	TMEM156	0.234
PILRA	0.245	CAPN14	0.234
LOC257358	0.244	OR11H6	0.234
TYR	0.244	CNBD1	0.234
C16orf45	0.244	CSF2	0.233
LRRN3	0.244	STK38L	0.233

TRIM42	0.244	MUC15	0.233
IL25	0.243	ARHGAP32	0.233
CSMD2	0.243	DEFB1	0.233
FCRL3	0.243	LILRA3	0.232
OR11A1	0.243	HEMGN	0.232
ESRRG	0.243	CSF3	0.232
IL29	0.243	SYBU	0.232
C16orf89	0.242	CD44	0.232
AGTR1	0.242	CD69	0.231
IAH1	0.242	ADH4	0.231
HEPACAM2	0.241	KREMEN2	0.231
FLJ43860	0.241	CNGA4	0.231
SLED1	0.241	FBRSL1	0.231
CHRNA2	0.241	POTEF	0.230
CADM2	0.240	NDN	0.230
UBA7	0.240	MYCT1	0.230
C8A	0.240	RBP2	0.230
SHD	0.239	GAS8	0.230
C6orf118	0.239	KCNH2	0.230
PRR21	0.239	CD300LG	0.230
SNRK	0.239	DYX1C1	0.230
TFEC	0.238	F10	0.230
C14orf23	0.238	DEFB124	0.229

OR5B2	0.238	LOC100188947	0.229
BAGE4	0.238	LAMA5	0.229
BAGE	0.238	TNFSF13	0.229
PSORS1C3	0.237	CDCP1	0.229
DUSP13	0.237	TAS2R8	0.228
PDE4C	0.237	BRSK1	0.228
CYP11B2	0.237	MS4A10	0.228
ATP1A3	0.236	ZNF484	0.228
FAM20B	0.236	RBP5	0.228
SOHLH2	0.235	DDX19B	0.228
HAR1A	0.235	IFIT3	0.228
TRPM8	0.234	TAAR1	0.228
IFI30	0.234	DEFB105B	0.227
SP100	0.234	DEFB106B	0.227
ACTL8	0.233	KRTAP10-8	0.227
SLC39A4	0.233	MRPL28	0.226
GPR139	0.233	OR2T6	0.226
TMTC1	0.233	APBA2	0.225
SYNGR2	0.233	IL29	0.224
KCNJ6	0.232	ATP8B2	0.224
LOC648691	0.232	FOLH1	0.224
NPBWR2	0.232	DUSP13	0.223
C17orf77	0.232	NEUROG3	0.223

PLG	0.231	PPARD	0.222
PDE1A	0.230	ZNF532	0.222
SERPINB4	0.230	OR4P4	0.222
CES1P1	0.230	AGBL1	0.222
CXCR1	0.230	UQCRC1	0.221
OR14A16	0.230	PROP1	0.221
FBXW2	0.230	EPHA10	0.221
LOC100144604	0.229	RORC	0.220
SLC17A1	0.229	OR4L1	0.220
MIR7-3HG	0.229	POTED	0.220
SIRPB1	0.229	PRIC285	0.220
OR52N5	0.229	ALDH3A1	0.220
WTH3DI	0.229	CELF5	0.220
AHSP	0.229	IGFBP5	0.219
BHLHE22	0.228	UGT3A2	0.219
C6orf164	0.228	SEPP1	0.218
OR4C12	0.228	WSCD2	0.218
LOC284276	0.228	C15orf63	0.218
OR7A5	0.227	OR8K3	0.218
RAET1E	0.227	LOC284276	0.217
KCNC2	0.227	MYL9	0.217
CST9	0.227	FBXO34	0.217
PER1	0.226	GPR142	0.217

CHRM5	0.226	OR8B8	0.216
DEFB115	0.225	CLVS1	0.216
SEC13	0.225	SFTA2	0.216
GPR156	0.225	EFNA3	0.216
SLC2A4RG	0.225	SUMO1P3	0.216
ODF3	0.224	OR52N5	0.215
SLCO1B3	0.224	EPB41	0.215
VSTM1	0.224	CCR2	0.215
MMP7	0.223	PI15	0.215
AGBL1	0.223	GRM3	0.215
PCDH12	0.223	OR13C3	0.215
WSCD2	0.223	SLC16A4	0.214
SNORD116-19	0.222	HPCAL1	0.214
LY86-AS1	0.222	RGL3	0.214
OR6N2	0.222	HMHA1	0.214
PCLO	0.222	PRKG2	0.214
CA9	0.221	KRTAP27-1	0.213
MS4A8B	0.221	CNN3	0.213
SERTM1	0.221	MPST	0.213
PCDHA4	0.221	OR12D2	0.213
DOCK2	0.221	EIF3G	0.213
APBA2	0.221	GK2	0.213
OR4D11	0.220	APLNR	0.213

KRT23	0.220	SLC38A7	0.213
GALR3	0.220	C1orf192	0.213
MUCL1	0.219	OR5P3	0.213
LPAR6	0.219	KLK8	0.213
DEFB129	0.219	C10orf91	0.213
CPSF4L	0.219	FCRL4	0.213
SEL1L2	0.218	C11orf21	0.212
MMP9	0.218	GYPE	0.211
FAM151A	0.218	UGT3A1	0.211
ITGAV	0.218	OR5B2	0.211
PTTG3P	0.218	MYOM2	0.211
OR6M1	0.217	OR5D14	0.211
UGT3A1	0.217	WFDC11	0.211
CPEB1	0.216	GLT6D1	0.211
PROX1	0.216	OR2T12	0.210
TRDN	0.216	FSHR	0.210
MICAL2	0.216	RRAGA	0.210
SLURP1	0.215	OR9G4	0.209
KIAA1324L	0.215	ZNF341	0.209
SERPINB2	0.215	TGM2	0.209
TNFAIP8	0.214	PSD	0.208
KCTD16	0.214	CYP7A1	0.208
CRX	0.214	SDR16C5	0.208

GLT6D1	0.214	RDH8	0.208
KRT19	0.214	SLC12A1	0.208
LRRC55	0.214	TNNI3	0.208
TAS1R2	0.214	PATE2	0.207
OR2W3	0.213	ALB	0.207
ARNTL	0.213	ZFP57	0.207
KCNH2	0.212	ATHL1	0.207
BTBD3	0.212	KIAA1324L	0.207
LINGO4	0.212	PQLC2	0.206
PIPOX	0.211	ALDH2	0.206
GPR4	0.210	FAM176B	0.206
CLVS1	0.210	FAM134B	0.206
CEACAM7	0.210	GPATCH1	0.206
ROPN1	0.210	SLAMF7	0.206
LILRB1	0.210	KLK6	0.206
NRBP2	0.210	OR4C16	0.205
IQUB	0.209	CSF1R	0.205
RILP	0.209	MAN2B2	0.205
GNG12	0.209	PDC	0.205
SIGLEC16	0.209	MX2	0.204
LOC283914	0.208	OR2L3	0.204
POM121L2	0.208	ADAM28	0.204
IRF8	0.208	TSSK6	0.203

FAM71B	0.207	SCN3A	0.203
PNLIPRP3	0.207	KRT17	0.203
FGF7	0.206	SGCZ	0.203
CLEC7A	0.206	SLC22A18AS	0.203
ASTN1	0.206	FHL5	0.203
GK2	0.206	ZG16B	0.203
HABP2	0.205	OR10A6	0.202
WISP2	0.205	CD33	0.202
FABP2	0.204	TMEM95	0.202
LINC00341	0.204	TMTC1	0.202
PLCB4	0.204	TMEM54	0.202
TMC4	0.204	C10orf90	0.201
GRXCR1	0.203	EFCAB9	0.201
SCGB1D2	0.203	FLJ43860	0.201
PYHIN1	0.203	STC1	0.201
FAM83F	0.203	PPP1R3A	0.201
HRH3	0.202	TCHH	0.200
GBP1	0.202	LRRC55	0.200
IFITM3	0.202	DEFB113	0.200
CPA3	0.202	SLC17A6	0.200
G6PC	0.202	C4orf6	0.200
SLC44A5	0.202	POM121L2	0.200
BRSK1	0.201	ABHD14A	0.200

AQP8	0.201	PLCB4	0.199
LCE3A	0.201	TAAR5	0.199
REP15	0.201	SIL1	0.199
LINC00293	0.201	CHRM5	0.199
PRG3	0.201	SLC25A20	0.199
PELO	0.200	COL9A1	0.198
C15orf63	0.200	PAR4	0.198
KRTAP27-1	0.200	OR3A2	0.198
LRIT2	0.200	MAP7D1	0.198
COL9A1	0.200	BTN3A2	0.198
CD84	0.200	IL15	0.198
OR1F2P	0.199	KIAA1984	0.197
PNLIPRP1	0.199	KCNAB1	0.197
TCN1	0.199	CERS2	0.197
DAGLA	0.199	TYRP1	0.197
OR4X1	0.199	SPAG4	0.197
BCKDK	0.199	OR14A16	0.197
ASRGL1	0.198	CHRM2	0.197
OR2AG2	0.198	LYPD3	0.196
CCDC60	0.198	TMEM72	0.196
SPAG11B	0.198	FAM153A	0.196
DLL3	0.197	RAB36	0.196
ZNF334	0.197	IL5RA	0.196

FOLH1	0.197	CLEC7A	0.195
NXPH1	0.197	OR2T4	0.195
FHL5	0.197	DOCK2	0.195
LPIN1	0.196	TMEM40	0.195
OR10S1	0.196	EML6	0.195
LOC388692	0.196	TMPRSS11BNL	0.195
ARF5	0.195	FAM183B	0.195
MALL	0.195	SPTBN5	0.194
OR12D2	0.195	GPR162	0.194
VSX2	0.195	HLA-F	0.194
NPPA	0.195	NCKAP5	0.194
GJA10	0.195	POGLUT1	0.193
MYH15	0.195	PCLO	0.192
CNTN2	0.194	MMP9	0.192
PRAMEF2	0.194	IKBKE	0.192
S100A7L2	0.194	OR2AG2	0.192
VN1R2	0.194	SEMG1	0.192
RAB36	0.193	LCE3A	0.192
LOC201651	0.193	STMN4	0.192
CRISP1	0.193	ARHGEF40	0.192
OR14I1	0.192	IFNA7	0.191
OR3A2	0.192	KRTAP13-3	0.191
KIAA0125	0.192	SPOP	0.191

FGF22	0.192	KRTAP10-5	0.191
UGT1A6	0.191	JPH3	0.190
BPIFB3	0.191	SLC2A4RG	0.190
LOC441204	0.191	GNB1	0.190
GSDMC	0.191	OR8H1	0.190
TMEM225	0.191	NSFL1C	0.190
PTN	0.191	PILRA	0.190
OR4C46	0.190	SEMA3G	0.189
FAM131A	0.190	APOD	0.189
NEUROD4	0.190	ZNF474	0.189
OR51F2	0.190	CRP	0.189
OR6N1	0.190	HRH3	0.188
SECTM1	0.190	CACNB3	0.188
CPNE4	0.189	CD84	0.188
DLGAP2	0.189	VNN1	0.188
TGIF2	0.189	RASAL3	0.188
CDA	0.189	CHDH	0.188
FOXP2	0.189	HMGCS2	0.188
HHLA1	0.189	KDM2B	0.188
C20orf203	0.188	TCN1	0.188
C22orf43	0.188	EPX	0.187
TECTA	0.188	ARHGEF35	0.187
PIK3IP1	0.188	BCL2L15	0.187

ZNF525	0.188	CYP11B2	0.187
ALMS1P	0.187	EHHADH	0.186
OR10A6	0.187	MGAT1	0.186
PRAME	0.187	PDE4B	0.185
FLJ45079	0.187	FXN	0.185
FCRL4	0.187	OR4D11	0.185
KRTAP13-2	0.187	CCDC168	0.185
CER1	0.186	SCHIP1	0.185
GRM1	0.186	SERPINB11	0.185
CHRM2	0.185	MAT1A	0.185
DEFB118	0.185	CNTN4	0.184
TFAP2D	0.185	GNG3	0.184
FCN1	0.185	VSTM1	0.184
EFNA3	0.185	SUMO1	0.183
OR2Y1	0.184	C16orf45	0.183
MUM1	0.184	IPO11	0.183
SNURF	0.184	PACS2	0.182
ITGA1	0.184	RHOBTB2	0.182
COL6A4P2	0.184	SNURF	0.182
PDE2A	0.183	OR1D2	0.182
OR52B4	0.183	MFSD1	0.182
OR7G1	0.183	LPIN1	0.182
NPFFR2	0.183	PPP1R13B	0.182

FFAR2	0.183	TPSG1	0.182
LRP5	0.183	KRTAP5-3	0.182
FFAR3	0.182	FNDC7	0.182
KLB	0.182	UGT2A3	0.182
RORC	0.182	IDO2	0.181
MBL1P	0.182	SLC39A14	0.181
TNFSF4	0.182	TAT	0.181
SCNN1G	0.182	CPEB1	0.181
C16orf92	0.181	ANKRD34C	0.180
SH2D2A	0.181	FAM24A	0.180
CERS2	0.181	GALNT12	0.180
FAM170B	0.181	SH3D21	0.179
GZMB	0.181	CALCOCO2	0.179
NCKAP5	0.180	CCDC70	0.179
FAM183B	0.180	GALR3	0.179
STC1	0.180	GPR153	0.179
TNFAIP8L3	0.180	IL25	0.179
RSAD2	0.180	HOXC13	0.179
GALNTL5	0.180	DEFB118	0.179
EMR1	0.180	SFTPD	0.178
OR2G2	0.180	LCN2	0.178
ZNF320	0.179	DEFB126	0.178
OR2L13	0.179	OR52B4	0.178

PKIA	0.179	AQP8	0.178
C9orf117	0.179	RNF2	0.178
LINC00173	0.179	TJP2	0.178
COL6A6	0.178	TCF7	0.177
DKFZp566F0947	0.178	UNC5CL	0.177
KCNAB1	0.178	SAA4	0.177
CYP2F1	0.177	LEPR	0.177
OMD	0.177	TACC2	0.177
TCEB3C	0.177	UG0898H09	0.177
FXYD4	0.177	NOD2	0.177
LINC00305	0.177	FAM109B	0.177
DARC	0.177	OR6K3	0.177
DSCR4	0.176	SP110	0.177
HNF4G	0.176	MED13L	0.176
PPARD	0.176	SNN	0.176
ZNF506	0.175	ALDH1A2	0.176
PKD1L3	0.175	PRAMEF2	0.176
RXFP4	0.175	LAIR2	0.176
CEACAM8	0.175	OR5D18	0.175
GYPE	0.175	ACTL9	0.175
RGR	0.175	NPBWR2	0.174
GABRR3	0.175	RNASEL	0.174
CGA	0.174	CCDC108	0.174

KCNIP4-IT1	0.174	BCKDK	0.174
CELSR2	0.174	RHOJ	0.173
MEIS3	0.174	YIPF7	0.173
LOC286367	0.174	OR6X1	0.173
MS4A10	0.174	OR5AS1	0.173
CD33	0.173	MACROD2	0.173
GP6	0.173	ETS1	0.173
IL17F	0.173	INSRR	0.173
CSF3	0.173	C8A	0.173
ANKFN1	0.173	BCAS1	0.172
MAPK13	0.173	RUNX1T1	0.172
ST6GALNAC6	0.173	C21orf54	0.172
ZFP57	0.172	RWDD2B	0.172
BCL2L15	0.172	CADM2	0.172
FBXL16	0.172	DUSP2	0.172
DEFB135	0.172	DKFZp434L192	0.172
OR2T34	0.172	FRG2B	0.171
C1QC	0.172	ATF6B	0.171
LOC100129794	0.172	KIAA0922	0.171
BDH2	0.172	PKIA	0.171
ZNF804B	0.171	ZNF610	0.171
BCMO1	0.171	LPPR1	0.171
EPB41	0.171	RUNDC3A	0.171

OR2T27	0.171	TMIGD1	0.170
GPR153	0.171	MIA2	0.170
PNLIP	0.171	FAT2	0.170
PCDH15	0.171	OR8B4	0.170
GLYATL3	0.171	RTN4RL2	0.170
GPR133	0.170	KCNC4	0.170
TOMM20L	0.170	CEACAM1	0.170
CDH20	0.170	TBL1XR1	0.170
ATP8B2	0.170	GLT8D1	0.170
UBXN6	0.170	SULF1	0.170
NDUFV1	0.169	CRB2	0.170
TMEM119	0.169	SLC29A1	0.170
TREML2	0.169	LOC399744	0.170
BPIFB2	0.169	TUSC3	0.169
ZNF257	0.169	ANXA9	0.169
BSG	0.169	DNTT	0.169
OR9Q2	0.169	ANKFN1	0.169
COL11A1	0.169	TTLL13	0.169
SH3BGRL3	0.169	FCGRT	0.168
C17orf109	0.168	RPS6KL1	0.168
PDZD3	0.168	ZBTB47	0.168
AKR1CL1	0.168	OR7G1	0.168
ZNF90	0.168	MYO1C	0.168

OR5E1P	0.168	LCE2B	0.168
SCN2A	0.168	PPP1R26	0.168
SP140L	0.168	OR52I1	0.168
NRL	0.168	GABRB1	0.167
C3orf74	0.167	GALNTL5	0.167
ASB15	0.167	SERPINB2	0.167
IQCK	0.167	C3orf65	0.167
CLTCL1	0.167	SULT1B1	0.167
ATOH1	0.166	NLRP8	0.167
PFKM	0.166	KCNC3	0.167
CD72	0.166	C12orf10	0.167
OR51L1	0.165	DCTD	0.167
GOLGA6L6	0.165	KCNJ9	0.166
HMGB4	0.165	ABHD14B	0.166
ATF7IP	0.165	FHAD1	0.166
C6orf226	0.164	RGS3	0.166
TTC7B	0.164	POR	0.166
C19orf18	0.164	SLC4A10	0.165
NEK7	0.164	MYBPC2	0.165
OR6C68	0.164	ZNF580	0.165
SHISA7	0.164	CDH22	0.165
C8orf22	0.163	HES3	0.165
MYT1L	0.163	LEMD2	0.165

HERC2P4	0.163	OR1F2P	0.165
ETFB	0.163	ALDH5A1	0.165
CTSG	0.163	CLECL1	0.165
IQCJ	0.163	OR7C1	0.165
VENTXP7	0.163	C9orf169	0.165
TYRP1	0.162	FANK1	0.164
CA1	0.162	PAQR6	0.164
BAIAP2L2	0.162	C8orf22	0.164
SLC29A3	0.162	FASTK	0.164
FAM26E	0.161	LSM2	0.164
OR11H12	0.161	FAM92B	0.164
FDX1L	0.161	TTR	0.164
HMGCS2	0.161	NAT8	0.164
ZNF695	0.161	HOXC4	0.163
MPST	0.160	ENTPD2	0.163
OR2J3	0.160	TRPM2	0.163
ZNF266	0.160	KRTAP19-4	0.163
LDB3	0.160	VENTXP7	0.163
EIF3G	0.160	RMND5A	0.163
HEPACAM	0.160	FUT2	0.162
LHX5	0.160	ZNF525	0.162
IFNA14	0.160	TCEB3C	0.162
ATP2B2	0.159	TTC4	0.162

BEST1	0.159	RHOD	0.162
MSMB	0.159	KRT19	0.162
OR52K2	0.159	FOLR1	0.162
ELN	0.159	OR6K6	0.161
LCN1	0.158	HLA-A	0.161
SPDYE4	0.158	B3GNT7	0.161
SAA2	0.158	HSD17B2	0.161
KLK6	0.158	SLC23A2	0.161
ZNF433	0.158	FFAR2	0.161
CCDC70	0.158	RNF151	0.161
MBD3L1	0.158	CYP4F11	0.161
PKHD1	0.158	ADAMTS10	0.161
GIMAP1	0.158	TMEM232	0.161
SPATA19	0.158	ZBTB43	0.161
MKRN7P	0.158	FLJ35390	0.160
OR12D3	0.157	NCOA2	0.160
EMR4P	0.157	IL18RAP	0.160
CYP7B1	0.157	SH2D2A	0.160
LCN2	0.157	SDSL	0.159
HPSE2	0.157	LACTB	0.159
TTR	0.157	C21orf56	0.159
OPLAH	0.157	HSD17B6	0.159
ZMAT4	0.157	OR13A1	0.159

GLP1R	0.157	OR2W1	0.159
SLC23A1	0.156	PHLPP2	0.159
ADAMTS13	0.156	GRM8	0.158
TRPM2	0.156	SLC7A7	0.158
FAM166B	0.156	SERPINB4	0.158
SLC15A5	0.156	ZNF169	0.158
CPNE2	0.155	SPDEF	0.158
ASB18	0.155	EIF2C1	0.158
FAM176B	0.155	ACSM5	0.157
S100Z	0.155	LOC100129794	0.157
PIK3R6	0.155	CLEC12A	0.157
LOC728875	0.155	VN1R2	0.157
CCDC135	0.155	OR1Q1	0.157
ADAM6	0.155	DPF1	0.156
PRSS35	0.155	AQP3	0.156
CRB1	0.154	CCDC30	0.156
C5orf62	0.154	CES1P1	0.156
LSM2	0.154	CSH2	0.156
CCDC168	0.153	IFITM1	0.156
LRP1B	0.153	CALHM3	0.156
SH3BP1	0.153	COL22A1	0.156
RNF222	0.152	ZNF385D	0.156
RNASE2	0.152	PRG2	0.155

RTP2	0.152	NXPH1	0.155
ITGB7	0.152	C11orf52	0.155
ZNF208	0.151	TBC1D3G	0.155
SLC12A1	0.151	SCGB1D2	0.155
OR1D2	0.151	SNHG7	0.155
TMEM145	0.151	MANEAL	0.155
FPR3	0.151	LAMP3	0.155
ZNF766	0.151	OR7A10	0.155
UNC13C	0.150	PAK2	0.154
CPB2	0.150	PNLIP	0.154
CALY	0.150	OR10Z1	0.154
C3orf67	0.150	FLJ45079	0.154
LDLRAD2	0.150	FCER1A	0.154
RASL11A	0.150	FAM71C	0.154
MUC6	0.150	GABRP	0.154
TRIB3	0.149	TMEM100	0.154
SLC22A6	0.149	SCN2A	0.154
SCGB1C1	0.149	PDE1A	0.154
RACGAP1P	0.149	HTR2B	0.154
OR2Z1	0.148	C3orf74	0.154
OTOL1	0.148	MAPK10	0.153
ACER3	0.148	DRD2	0.153
OR8B3	0.148	ARF5	0.153

FRG2C	0.148	ADAMTS13	0.153
CHAT	0.148	OR52K2	0.153
TTLL11	0.146	ARPC1B	0.153
LRRN2	0.146	TNFAIP8L3	0.153
KRTAP25-1	0.146	WIPF3	0.152
BCL2L14	0.146	NFU1	0.152
FAM49A	0.146	KIAA0125	0.152
TAT	0.146	MT2A	0.152
CYP4F8	0.146	FGF17	0.152
PPP2CB	0.146	ZEB2	0.152
ZNF169	0.146	TBKBP1	0.152
LAMA5	0.146	BDKRB2	0.152
TMPRSS11BNL	0.146	RGR	0.151
TRAPPC10	0.145	LOC286367	0.151
APBB2	0.145	TRIM62	0.151
OR5H15	0.145	GPHN	0.151
LIME1	0.145	SP8	0.151
OR8B4	0.145	CLC	0.151
DEFB133	0.145	OR10G4	0.151
RNF186	0.145	MYH6	0.150
SLC29A1	0.144	KRTAP25-1	0.150
KIAA0317	0.144	ZMAT4	0.150
OR10A7	0.144	HAMP	0.150

STMN2	0.144	KRT1	0.150
VPS54	0.144	OR6C2	0.150
SMTNL1	0.144	ENPP2	0.150
GPR88	0.143	OR52H1	0.150
STAG3	0.143	DSCR4	0.149
GPC2	0.143	PEAK1	0.149
FAM102A	0.143	DEFB121	0.149
CFHR2	0.143	C14orf23	0.149
PHACTR1	0.143	C4orf22	0.149
LGR6	0.143	CYB561D1	0.149
MFI2	0.143	ADARB1	0.149
POTEF	0.143	SSR4P1	0.149
APOBEC1	0.142	CCDC14	0.149
SERPINB7	0.142	HCG9	0.149
SYT3	0.142	ABP1	0.149
ALDH3B1	0.142	SYT5	0.148
TMEM206	0.142	MUC2	0.148
CST2	0.142	TAS2R7	0.148
SLC35F4	0.142	METTL7A	0.148
VNN1	0.141	VANGL1	0.148
SPATS2	0.141	FCRLB	0.148
GALNT13	0.141	SDC4P	0.148
NTN3	0.141	LOC201651	0.148

C6orf222	0.140	ZNF512B	0.147
TAS2R7	0.140	LDLRAD2	0.147
ANTXR2	0.140	SH3BGRL3	0.147
ZNF385D	0.140	NDFIP1	0.147
KLK3	0.140	SPATS2L	0.147
LY86	0.140	SH3BP1	0.147
FERD3L	0.140	HEPACAM	0.147
ZNF137P	0.140	ADRB1	0.147
OR10X1	0.139	ZNF709	0.147
CACNG7	0.139	SAA2	0.147
ZEB2	0.139	SLC35F4	0.146
SAMD9	0.139	ASIP	0.146
LOC90246	0.139	MED4	0.146
OR51F1	0.139	CLDN9	0.146
PNLIPRP2	0.138	OR6C68	0.146
OR2AT4	0.138	MYT1L	0.146
GABARAPL1	0.138	ALKBH7	0.146
CRY2	0.138	OPLAH	0.146
RELT	0.138	KIAA2013	0.145
KIR2DL4	0.138	OR7A5	0.145
SULF1	0.138	TRIM42	0.145
RETNLB	0.138	C17orf28	0.145
TAB1	0.138	SEC13	0.145

SH3D21	0.138	KRTAP13-2	0.145
MX2	0.138	KLF2	0.145
APTX	0.138	UBE2J2	0.145
ILDR2	0.137	SLC4A4	0.144
B3GNT1	0.137	CD1E	0.144
ACAP1	0.137	ZNF215	0.144
CCDC102A	0.137	KANK1	0.144
ETS1	0.137	LRRC26	0.144
GABRP	0.137	CRX	0.144
ALPL	0.137	FRMD4A	0.144
INPP5J	0.136	TAAR2	0.144
LOC200726	0.136	IDO1	0.143
ANKRD1	0.136	KLHL25	0.143
S100A7A	0.136	GAB2	0.143
FAM153A	0.136	DBC1	0.143
C21orf56	0.136	C19orf77	0.143
KIAA1467	0.136	IPW	0.143
SRRM3	0.136	ATP11A	0.143
TRIM21	0.136	CCDC83	0.142
OR4M1	0.136	RARG	0.142
CCL4	0.136	C14orf177	0.142
ACSM4	0.136	GSTM1	0.142
SGCD	0.135	HBBP1	0.142

ARHGAP22	0.135	CD72	0.142
GABRB1	0.135	TMEM9	0.142
SNRPN	0.135	SERPINB12	0.142
MRGPRG	0.135	PKHD1	0.142
OR7G3	0.135	CCL4	0.142
EPHA10	0.135	REP15	0.142
C14orf180	0.134	RBMXL1	0.141
GBP3	0.134	GORASP2	0.141
LINC00486	0.134	C2orf68	0.141
KCNA5	0.134	ATP1A3	0.141
PPP1R26	0.133	KRT222	0.141
C19orf77	0.133	SCGB1D1	0.141
HGF	0.133	SNORA81	0.140
RPL3L	0.133	LYN	0.140
LGALS9	0.133	TMEM119	0.140
GRAMD1B	0.133	TMEM163	0.140
ZNF426	0.133	LINC00304	0.140
FANCC	0.133	KIAA1161	0.140
IDO2	0.133	CPSF1	0.140
CALN1	0.133	OR52B2	0.140
SHANK1	0.133	LHX6	0.140
TMC3	0.133	GLP1R	0.140
CYP2C18	0.132	CYP11B1	0.140

CECR2	0.132	LOC200726	0.140
PTH	0.132	DEFB135	0.140
NOS1	0.132	OR2Y1	0.139
INMT	0.132	TRIB3	0.139
ITGAL	0.132	GOLGA6L5	0.139
OR2A42	0.131	FBN3	0.139
ICAM3	0.131	SNORA74A	0.139
TNN	0.131	OR52L1	0.139
DHH	0.131	CYP7B1	0.139
WDFY1	0.131	IL18R1	0.139
TAS1R3	0.131	PER4	0.139
AMY1C	0.130	SSBP4	0.139
MUC2	0.130	FSTL3	0.138
SELENBP1	0.130	LINC00112	0.138
MYL1	0.130	ITGAV	0.138
KRT28	0.130	EFEMP2	0.138
KCNH1	0.130	SLC10A5	0.138
PTCHD2	0.130	FBL	0.138
LOC100124692	0.130	DET1	0.138
KRT76	0.129	OR6P1	0.138
LINC00244	0.129	USP18	0.138
FBN3	0.129	GYLTL1B	0.137
C1QA	0.129	GJB3	0.137

CCL18	0.129	RNASE2	0.137
GAS2	0.129	PNLIPRP1	0.137
APOH	0.129	SCGB2A2	0.137
LCN8	0.129	TNFSF12	0.137
SLC4A10	0.129	GNA15	0.136
CEACAM18	0.129	TIMD4	0.136
TRIM49	0.129	CST9	0.136
GABRA1	0.129	LILRA1	0.136
ANO7	0.129	MBL1P	0.136
DMKN	0.129	LCP2	0.135
SIGLEC11	0.128	LRP1B	0.135
SUMO1	0.128	NRGN	0.135
TMEM232	0.128	FCRLA	0.135
GABRA5	0.128	CARD14	0.135
CLEC12A	0.128	GPD1	0.135
MUC12	0.128	CNTD2	0.135
LILRB5	0.128	PTH	0.135
TFEB	0.128	IL27RA	0.135
RBFOX3	0.128	LUZP6	0.135
DLX3	0.128	C22orf31	0.135
ADH7	0.128	FAT3	0.135
FTMT	0.127	GPBP1	0.134
TUBAL3	0.127	SAA1	0.134

HSPA1A	0.127	FDX1L	0.134
TFR2	0.127	TNN	0.134
CHRNA7	0.127	ACAN	0.134
LINC00304	0.127	HSPA4L	0.134
ZNF19	0.127	HLA-DRB6	0.134
PHACTR3	0.127	TOMM20L	0.134
KIRREL3	0.126	MNDA	0.134
OR10A3	0.126	ASRGL1	0.134
ZNF233	0.126	KPNA7	0.134
FRMD4A	0.126	EXTL3	0.134
LCN6	0.126	CYTH4	0.134
OR1N1	0.126	BLID	0.133
IL18RAP	0.126	TMEM63C	0.133
LCT	0.126	ZNF28	0.133
LOC100129935	0.125	SLC16A7	0.133
TREX1	0.125	LOC648691	0.133
LINC00314	0.125	CELSR2	0.133
OR11H4	0.125	SFTA1P	0.133
KRTAP10-1	0.125	SERPINB7	0.133
DBC1	0.125	TMPRSS11F	0.133
CAMK2A	0.125	EPN3	0.132
TPRX1	0.125	FAM188B	0.132
RDH5	0.125	PKP3	0.132

HK2	0.125	C6orf222	0.132
DENND2C	0.125	SCARNA9	0.132
SAA1	0.125	HAO2	0.132
CRB2	0.124	FOXO1	0.132
BBOX1	0.124	SCNN1D	0.132
PPIE	0.124	SLC7A1	0.131
LOC392196	0.124	FXYD7	0.131
TCF7	0.124	GOLGA8F	0.131
SEMA3F	0.124	CYB5R3	0.131
PAH	0.124	MED27	0.131
LOC400940	0.123	RBAK	0.130
SLCO1B1	0.123	CAMK2A	0.130
HSD3B7	0.123	SLC2A8	0.130
C1orf170	0.123	HGF	0.130
CAPN14	0.123	GABRR3	0.130
C1R	0.123	LCN6	0.130
GRIP1	0.123	CCDC42	0.130
DDI1	0.123	WDFY1	0.130
SERPINI2	0.123	APCS	0.130
HHIPL2	0.123	HTR3A	0.130
GOLGA8F	0.123	RANBP3L	0.130
PRR7	0.122	SLC14A2	0.130
ALDH2	0.122	GLTPD2	0.129

CA14	0.122	ATP6V1G1	0.129
ATP9A	0.122	FRG1	0.129
ARL6IP4	0.122	IGFBP6	0.129
KRTAP5-9	0.122	SNRPN	0.129
ITFG3	0.121	WDR49	0.129
ZNF550	0.121	ARHGAP22	0.129
PRAMEF11	0.121	KRTAP4-1	0.129
LRP3	0.121	VPS13D	0.129
PRLR	0.121	PTGES2	0.129
CISD3	0.121	PWWP2B	0.129
VNN2	0.121	PODNL1	0.128
RHBDF2	0.121	SMOX	0.128
SPTSSB	0.120	GOLGA6L6	0.128
PHYH	0.120	IL17F	0.128
RRAGA	0.120	OR9G1	0.128
C10orf90	0.120	CDK10	0.128
KRTAP21-1	0.120	AMBRA1	0.128
ELAVL2	0.120	TREML1	0.128
KLF1	0.120	TFR2	0.127
OR2B6	0.120	PARP6	0.127
OR4D5	0.119	MUM1	0.127
TREH	0.119	ANKRD1	0.127
CCL14	0.119	B3GALNT1	0.127

TMEM82	0.119	CCL18	0.127
MAT1A	0.119	GNAT3	0.127
CPZ	0.119	LCN8	0.127
PDZK1IP1	0.119	PP2D1	0.127
FGA	0.119	C14orf180	0.127
OR10G4	0.119	BEST1	0.127
C3orf14	0.119	FLJ42709	0.127
OR6K6	0.118	SGCB	0.127
C8B	0.118	SLC5A1	0.127
INSRR	0.118	LGR6	0.126
NLRP5	0.118	EMP1	0.126
LARP4B	0.118	PAPLN	0.126
DAB1	0.118	TPD52	0.126
KCNK16	0.118	OR1C1	0.126
PAM	0.118	PRSS55	0.126
PGLYRP2	0.118	FAM74A3	0.126
OR2S2	0.118	SCN7A	0.126
CSMD1	0.117	C21orf15	0.126
COL18A1	0.117	TNP1	0.125
ZNF736	0.117	NDUFB6	0.125
KCNH4	0.117	TYMP	0.125
GNAT3	0.117	CEACAM8	0.125
ZNF486	0.117	VSX2	0.125

G6PC2	0.117	C3orf67	0.125
PART1	0.117	PACS1	0.125
ARL4C	0.116	RNF213	0.125
KBTBD10	0.116	DENND2C	0.124
OR10H4	0.116	PDCD1LG2	0.124
C22orf31	0.116	MPRIP	0.124
LYPD5	0.116	SET	0.124
FYTTD1	0.116	BSPH1	0.124
MYH7	0.115	GPR133	0.124
CLDN25	0.115	KRT28	0.124
IGSF22	0.115	CNOT6	0.124
ZNF580	0.115	SCEL	0.124
ARGFXP2	0.115	ENDOU	0.123
NPFFR1	0.115	SYNGR2	0.123
MPPED1	0.115	BTBD19	0.123
ALDH1A2	0.115	SLC6A6	0.123
GSG1L	0.115	SH3TC2	0.123
LOC729668	0.115	CHRFAM7A	0.123
OTOA	0.115	KIAA0247	0.123
CD80	0.115	ACTR3B	0.123
SLC5A1	0.115	CAPSL	0.123
SLC2A5	0.114	KRT13	0.123
ZP4	0.114	DDX4	0.122

TRPC4	0.114	SIGLEC16	0.122
LINC00294	0.114	OR5E1P	0.122
RPE65	0.114	MDM4	0.122
CDH26	0.114	PVRL4	0.122
OR56B4	0.114	CA9	0.122
SLC17A4	0.114	NCKIPSD	0.122
OR6K3	0.114	PHLDB2	0.122
ZNF735	0.114	SDCBP2	0.122
KRTAP19-5	0.114	CTSA	0.122
OR4B1	0.114	MYH15	0.121
ZNF175	0.113	PPIP5K1	0.121
ACSM5	0.113	RBM47	0.121
TREML1	0.113	C16orf89	0.120
ANKS1B	0.113	OR5H2	0.120
OR9K2	0.113	ZBTB17	0.120
MYOM2	0.113	OR5L1	0.120
AKR1B10	0.113	PANX3	0.120
DEFA5	0.113	OR2T33	0.120
MRGPRX3	0.113	PFKM	0.120
MUC13	0.113	ALPL	0.120
RBM45	0.112	F2RL2	0.120
KRT16	0.112	ARGFXP2	0.120
SCARNA2	0.112	ERVFRD-1	0.119

ATP6V1G3	0.112	TECTA	0.119
DNAH9	0.112	TBC1D21	0.119
RFTN2	0.112	SLC9A3R2	0.119
NEU1	0.112	OR7D4	0.119
GABRB3	0.112	CHST4	0.119
SFTPA1	0.112	ITPRIPL2	0.119
RPF1	0.112	ZNF517	0.119
SIRPG	0.112	IL17C	0.119
C1QL1	0.112	PAQR4	0.119
PGLYRP4	0.112	PTPN22	0.119
PCDHA8	0.112	RASGRP4	0.118
ASIP	0.112	LOC645752	0.118
TNFRSF9	0.111	MFI2	0.118
SLC31A2	0.111	VNN2	0.118
FAM27L	0.111	PLA2G4A	0.118
OR4D10	0.111	HNF4G	0.118
HLA-DPA1	0.111	PRLR	0.118
SYNDIG1	0.111	C10orf71	0.118
NCOA2	0.111	ZNF19	0.118
NDRG1	0.111	LHFPL4	0.118
AICDA	0.111	OR6N2	0.118
PTX4	0.111	LCN1	0.118
OR8A1	0.111	ANTXR2	0.118

OXCT1	0.111	BCAS4	0.118
CXCR6	0.110	EP400	0.118
DISC1	0.110	LRP5	0.117
MIP	0.110	IBSP	0.117
MAP3K14	0.110	SNUPN	0.117
ZBTB17	0.110	FER1L4	0.117
MDGA2	0.110	RPE65	0.117
GRAP2	0.110	FLJ33360	0.117
RESP18	0.110	GRIP1	0.117
FCRLB	0.110	NPAS4	0.117
DEFB127	0.110	TREH	0.116
LOC649395	0.110	COL11A1	0.116
C11orf21	0.109	SCG2	0.116
WFDC10A	0.109	CACNG7	0.116
MPRIP	0.109	GBP1P1	0.116
IDO1	0.109	KRTAP2-1	0.116
CNTD2	0.109	NDRG1	0.116
YWHAE	0.109	PGLYRP2	0.116
CFHR1	0.108	SLC17A9	0.116
RHBDF1	0.108	NAIP	0.116
SP8	0.108	OR2AT4	0.116
HLA-DQA1	0.108	ATXN1	0.116
PTPN22	0.108	PLG	0.115

CTSA	0.107	MLLT4	0.115
NR1I3	0.107	FGG	0.115
HSPA5	0.107	KRTAP5-9	0.115
FER1L6	0.107	LINC00442	0.115
KRT16P2	0.107	OR5AN1	0.115
AGMO	0.107	SEPN1	0.114
LOC90784	0.107	TGIF2	0.114
PDE4D	0.106	GSTP1	0.114
SP140	0.106	MMP10	0.114
OBSCN	0.106	CD82	0.114
ZNF709	0.106	ST8SIA6	0.113
SLC26A3	0.106	ASB1	0.113
SPRR2D	0.106	ADORA2B	0.113
CYYR1	0.105	BET3L	0.113
GRIK1	0.105	FTSJD2	0.113
GRIN3A	0.105	OR3A3	0.113
CSTA	0.105	PCDHA11	0.113
EML5	0.105	ZFP62	0.113
GRIK5	0.105	LARP4B	0.113
PAQR6	0.105	BMS1P1	0.113
AGAP2	0.105	RASL11A	0.113
COL6A1	0.105	IGSF22	0.113
LITAF	0.104	PPFIA3	0.113

MOB3A	0.104	LCE2A	0.113
NOVA2	0.104	HYAL1	0.113
ZNF660	0.104	INMT	0.112
TECTB	0.104	DEFA5	0.112
TFDP2	0.104	NAPEPLD	0.112
MAPK10	0.104	C10orf57	0.112
ODZ2	0.104	GGNBP1	0.112
GPIHBP1	0.103	PRR5	0.112
OR56A4	0.103	ANK1	0.112
FOXK1	0.103	CACNB2	0.112
BAIAP3	0.103	RCN1	0.112
BPESC1	0.103	SIRPB1	0.112
WIPF2	0.103	HPSE2	0.112
AFF3	0.103	MUC6	0.112
RGS5	0.103	ADH1C	0.112
PLCL1	0.103	PGA3	0.111
CLEC2D	0.103	CDKN1C	0.111
ANKRD34C	0.102	TREML2	0.111
BPIFA2	0.102	CERS4	0.111
MGP	0.102	BRD7	0.111
KCNJ1	0.102	GPR88	0.111
PIP4K2A	0.102	NAT1	0.111
C5AR1	0.102	FAM125B	0.111

SIGIRR	0.102	APOBEC1	0.111
ARL11	0.102	LOC283922	0.111
CACNB2	0.102	KIF2A	0.111
PTPRJ	0.102	OR9Q2	0.111
CMIP	0.102	FERD3L	0.111
TMCO5A	0.101	SLC44A5	0.110
ZNF605	0.101	ZNF560	0.110
CCR3	0.101	HDHD3	0.110
KRTAP24-1	0.101	DHH	0.110
AIM2	0.101	NEK7	0.110
SIL1	0.101	PYROXD2	0.110
OR3A3	0.101	OR2T10	0.109
KIAA1161	0.101	GNE	0.109
PDGFD	0.101	ZFP112	0.109
NENF	0.101	BRD3	0.109
MYT1	0.101	MMP13	0.109
OR9A4	0.101	OR4X2	0.109
CELF5	0.101	OR6C75	0.109
GYLTL1B	0.100	SYDE1	0.109
ZNF843	0.100	KC6	0.109
ARMS2	0.100	MAP6D1	0.109
ATP4A	0.100	C19orf55	0.109
		LOC392196	0.108

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LCE2C	0.108
TMEM8C	0.108
MYH7	0.108
MDGA2	0.108
OR2J3	0.108
SLURP1	0.108
APOH	0.108
SCOC	0.108
ARHGEF33	0.107
CPZ	0.107
C6orf226	0.107
C3orf14	0.107
OR51A7	0.107
KLKB1	0.107
DEFB133	0.107
USH2A	0.107
LINC00293	0.106
ATM	0.106
C2orf71	0.106
ALDH3B2	0.106
NDUFB10	0.106
KRT2	0.106

MST1R	0.106
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MRS2P2	0.106
OR5M1	0.106
KIF2B	0.106
KCNC2	0.105
RPF1	0.105
TGFB3	0.105
AKR1C1	0.105
AGXT	0.105
C8orf44	0.105
RPL13AP17	0.105
ABHD11-AS1	0.105
DSG3	0.105
TH	0.105
SERPINI2	0.105
TYR	0.105
CCL23	0.104
COL6A6	0.104
PER2	0.104
DNAJC11	0.104
BMP5	0.104
DDI1	0.104

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GBP3	0.104
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ZNF782	0.104
KLRG1	0.104
PHYH	0.104
ACOT7	0.103
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LILRB5	0.103
KLK11	0.103
CCDC135	0.103
OR2B11	0.103
PTCHD2	0.103
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CHI3L1	0.103
ABCA6	0.103
FAM45A	0.103
TRPC4	0.103
C2orf90	0.103
RABL5	0.103
CIDEC	0.103
OR2L13	0.103
OR13C8	0.103

GPR78	0.102
CDK2AP1	0.102
SELPLG	0.102
GNG7	0.102
ZBTB34	0.102
NR5A2	0.102
CYP2C8	0.102
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LAT	0.101
MRAS	0.101
AKR7A3	0.101
TAS1R3	0.101
NTF4	0.101
CSTA	0.101
KIRREL3	0.101
VASN	0.101
IGF2BP2	0.101
CPNE6	0.101
PGLYRP4	0.101
CDHR5	0.101
TM4SF4	0.101
FAM26E	0.100
ARL6IP1	0.100

KRTAP15-1	0.100
SYTL1	0.100
LINC00475	0.100