

A list of 308 genes in SEA**A list of 324 genes in STP**

AKR1B1	GBA
NCOA3	AKR1B1
P2RY6	ADA
P2RY2	CDA
SLC29A1	ADK
P2RY14	DPP4
P2RY4	ADORA1
SLC28A2	ADORA2A
CDA	ADORA3
ADK	HSPA8
ADORA3	GAPDH
HSPA5	AHCY
AMD1	HSPA5
HSPA8	TK1
ST6GAL1	MAPK1
ADORA1	MCL1
TOP1	PYGM
DNPH1	PDCD4
ADORA2A	CA2
P2RX1	CA1
RNASE1	TYMS
RNASE2	OGA
KMT5C	CA12
SETDB1	CA9
RNASEL	GAA
DNMT3B	GSK3B
GAPDH	FUCA1
SRM	PNP

P2RY11
POLB
ADA
AHCY
GPR17
SMS
PARG
TK1
GBA
HEXA
HEXB
CD69
POLG
QARS
P2RX4
ATIC
DOT1L
PLCG1
ADORA2B
RAC1
PDCD4
SLC5A2
KMT2A
EHMT1
CA9
TPMT
CA12
EZH1
SUV39H1

PIM1
EHMT1
EHMT2
CA14
GRK1
CCND1
CDK4
DAO
F2
IDO1
CTRB1
NISCH
SLC6A3
PIK3CA
PIK3R1
CTSK
CTSL
CTSB
CYP1B1
SIGMAR1
CHRM2
CHRM1
CYP19A1
MAOB
BRD2
TBXAS1
UTS2R
GABRB3
GABRG2

CA14	GABRA5
P2RY1	DRD4
CDC42	MAPK14
SETD7	CHRM4
HPRT1	CHRM5
CA1	CHRM3
POLA1	MGLL
FGF1	CCR5
OGA	FABP4
DNMT1	FABP3
PAX8	PTGS1
TYMP	HSD11B1
TK2	PPARG
PNP	CNR1
FGF2	FFAR1
ERAP1	FAAH
OGT	PTGS2
GRK1	PTPN1
CA2	PPARA
LGALS9	FABP5
INMT	FABP1
LGALS3	CES2
LGALS1	CYP17A1
EHMT2	PPARD
MAP3K7	CNR2
HSPA1A	SCD
PIN4	NOS2
PAM	TNKS
LPAR4	PTGES

LPAR6	NR1H3
WRN	HRH3
TNF	NPY5R
CES2	ALOX5
LPAR3	HRH4
PPP1CC	CYP11B1
PPM1B	CYP11B2
CES1	IMPDH2
PPID	HTR2A
TLR2	OPRD1
PRNP	ROCK2
LPAR1	GCK
P2RY10	GRIN1
MPEG1	HTR6
PLA2G2C	C5AR1
GPR174	QPCT
SLC25A20	GABRA3
GPR34	GABRA1
POLM	GCGR
PLA2G4B	GRIN2B
GNAI1	GABRA2
GNAI3	SLC6A9
DNM1	LIMK2
ADH7	HTR2C
ACER2	CALCRL
POLH	GPR119
COL4A3BP	SRC
FAAH	KIF11
LPAR2	EPHB4

PLA2G5	ALOX5AP
EPHX1	ASAH1
POLK	CRHR1
GNAO1	CDC7
FDPS	ABL1
KDM5A	YES1
GGPS1	LCK
PAOX	AURKB
PRKCA	PFKFB3
EPHX2	SLC9A1
SMPD2	JAK2
ADH1B	PARP2
ENPP2	RAMP1
ACP1	FLT1
SPHK1	APH1B
NAAA	PAM
POLL	SIRT2
S1PR2	PRKCA
KAT2B	PRKCQ
CDC25B	PRKCH
HAO1	PRKCG
PLA2G4C	UGT2B7
CNR1	HMGCR
NOD1	PRKCE
PLA2G2A	CPT1A
FABP3	VDR
GBA2	OPRK1
THRA	POLA1
ADH1C	AKT1

PTPN13
THRB
FUT7
CDC25C
ADH1A
IARS
CNR2
VEGFA
ASAH1
HSD17B3
DAGLA
TRPV1
SLC22A8
HMGCR
PGA5
S1PR3
PTPRC
SLC22A6
RARB
PLCG2
PPARG
SELP
TOP2A
LPAR5
APEX1
PPARA
S1PR4
CDC25A
CA3

PRKCD
PREP
AR
HSD17B2
SERPINA6
PRSS1
TRPV1
SHBG
AKR1C3
AKR1C2
AKR1C1
ABCB1
NR3C1
DNM1
ACACB
MET
LPAR6
LPAR5
NLRP3
BACE2
CTSD
S1PR3
S1PR1
PTPN2
ENPP2
G6PD
ESR2
NPC1L1
ESR1

CA7	PTPN6
GPR84	PTGER1
BBOX1	PTGER2
OXER1	CYP51A1
CYP4F2	CDC25A
GABRQ	RORA
KDM7A	CDC25B
PHF8	RORC
GSTK1	BCHE
BHMT	BACE1
SLCO2A1	PTGER4
SELL	PTGIR
SLC6A11	HSD11B2
LTB4R	PGR
GSTM1	FNTA FNTB
KDM2A	PTPN11
KDM4A	AKR1B10
KDM4C	POLB
PTGER2	PTPRF
GSR	PLA2G1B
TBXAS1	ACP1
ENPEP	SREBF2
PLA2G10	TERT
S1PR5	FDFT1
TBXA2R	SLC6A4
FOLH1	NR3C2
PTGER4	CYP2C19
PTGIR	CD81
PLA2G4A	TOP2A

FFAR4	PTGFR
SLC22A1	PTGER3
GSTA1	SLC22A6
GABBR2	TOP1
GABBR1	SLC6A2
PTGER3	PTGDR
FABP4	SAE1 UBA2
PTGFR	SRD5A2
LAP3	ACHE
GPR35	NR1H2
ATG4B	NR1I3
KDM4E	GLRA1
GABRR1	SQLE
PPARD	DHCR7
S1PR1	DRD2
KDM5C	SHH
CPT2	PHLPP1
PAFAH1B2	ILK
KAT5	PSEN1
SPTLC1	AURKA
SPTLC2	CCKAR
Ephx1	PDK1
MGLL	PDE10A
PRKCE	HTR1A
ABCC2	STS
SOAT2	CTSS
ALOX5	JAK3
FFAR1	JAK1
ALOX12	FASN

SPHK2	TACR2
STS	TACR1
CYP17A1	HTR1B
NPC1L1	HTR1D
GPBAR1	MCHR1
SRD5A2	MDM4
SLC10A1	MDM2
G6PD	CA7
SHBG	CA3
SERPINA6	CA6
SRD5A1	CA4
ABCC4	CA13
CD4	CA5B
CDC45	CA5A
GC	NFKB1
ST3GAL1	MAOA
VDR	NQO1
NR1H3	XDH
NR1H4	EGFR
AR	FABP2
ESR2	PHF8
RORA	NR1H4
CYP24A1	HSD17B3
SLC10A2	GABBR1
ABCB11	KDM2A
CYP19A1	KDM5C
SREBF2	GPBAR1
ESR1	GABRB2
GABRD	HAO1

EBP	GSTK1
EPHA7	LTA4H
CYP27B1	NR0B2
EPHA2	CDC45
EPHA5	PTPRC
EPHA4	RXRA
EPHA8	CYP26A1
EPHB3	CYP26B1
EPHB1	RARG
EPHA1	RARB
EPHA6	RARA
SLC22A3	FFAR4
SHH	CACNA2D1
EPHB2	RXRG
RORC	ALOX15
UGCG	ALOX12
EPHB6	RXRB
ABCB1	SLC16A1
NR1H2	ABCC1
PHLPP1	EPHX2
TPPA	CHRNA7
AKT1	PLG
IL2	TBXA2R
Ar	PLA2G4A
CA5B	HTR2B
CA6	RORB
CA5A	UBA2
CA4	SAE1
KCNA7	GRM5

KCNA1
CA13
MAOB
KCNA4
NQO1
KCNA2
KCNA3
PCSK7
PGR
AHR
KCNN1
NFKB1
CYP1B1
MAOA
HNF4A
KCNN2
DRD4
MIF
KCNA5

HNF4A
LTB4R
PDE4D
SLC22A12
PTGDR2
IL6
GLUL
ADRA2B
EDNRA
MAPK3
TRPM8
APH1A
NCSTN
PSENEN
PSEN2
CMA1
CTSG
GRM2
OXER1
PDE4A
RBP4
METAP1
MMP2
PTGES2
PRKAA2
PRKAB1
PRKAG1
PDE4B
ITGB2

ICAM1
ITGAL
MPEG1
SLC1A1
F2R
DCK