

Figure S1 List of 384 GPCR gene symbols in microarray

Symbol	Description	Symbol	Description
GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1	GPR113	G protein-coupled receptor 113
MRGPRX4	MAS-related GPR, member X4	PTGER1	prostaglandin E receptor 1
PTH1R	parathyroid hormone receptor 1	MRGPRX3	MAS-related GPR, member X3
FZD10	frizzled homolog 10 (Drosophila)	OR2C3	olfactory receptor, family 2, subfamily C, member 3
BDKRB2	bradykinin receptor B2	GPR6	G protein-coupled receptor 6
P2RY10	purinergic receptor P2Y, G-protein coupled, 10	RLN3R1	relaxin family peptide receptor 3
GPR12	G-protein coupled receptor 12	TAAR8	trace amine associated receptor 8
TAAR2	trace amine-associated receptor 2	GPR150	G protein-coupled receptor 150
CHRM1	cholinergic receptor, muscarinic 1	TAAR1	trace amine-associated receptor 1
C11ORF4	mitochondrial ribosomal protein L49	GRM2	glutamate receptor, metabotropic 2
OPN3	opsin 3	FPRL2	formyl peptide receptor 3
GCGR	glucagon receptor	GPR83	G protein-coupled receptor 83
GRPR	gastrin-releasing peptide receptor	GPR25	G protein-coupled receptor 25
RARS	arginyl-tRNA synthetase	GPR62	G protein-coupled receptor 62
ADRA2B	adrenergic, alpha-2B-, receptor	HRH2	histamine receptor H2
CMKLR1	chemokine-like receptor 1	GPR4	G protein-coupled receptor 4
XCR1	chemokine (C motif) receptor 1	GPR40	free fatty acid receptor 1
EMR1	egf-like module containing mucin-like hormone receptor-like 1	MELL1	mel transforming oncogene-like 1
MC2R	melanocortin 2 receptor (adrenocorticotrophic hormone)	CHRM5	cholinergic receptor, muscarinic 5
MC3R	melanocortin 3 receptor	OXER1	oxoecosanoid (OXE) receptor 1
GPR133	G protein-coupled receptor 133	GNRHR	gonadotropin-releasing hormone receptor
DRD1	dopamine receptor D1	GPR120	G protein-coupled receptor 120
CYSLTR2	cysteinyl leukotriene receptor 2	GPR111	G protein-coupled receptor 111
GPR142	G protein-coupled receptor 142	EDG6	endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 6
GHSR	growth hormone secretagogue receptor	VN1R5	vomer nasal 1 receptor 5
HTR1B	5-hydroxytryptamine (serotonin) receptor 1B	HTR1A	5-hydroxytryptamine (serotonin) receptor 1A
BLR1	chemokine (C-X-C motif) receptor 5	MC4R	melanocortin 4 receptor
GPR	P2 phage tail completion protein R	TAAR5	trace amine-associated receptor 5
BAI2	brain-specific angiogenesis inhibitor 2	GPR32	G protein-coupled receptor 32
GPR1	G protein-coupled receptor 1	PTGER4	prostaglandin E receptor 4 (subtype EP4)
GPR65	G-protein coupled receptor 65	GPR135	G protein-coupled receptor 135
GPR45	G protein-coupled receptor 45	ADORA3	adenosine A3 receptor
P2RY13	purinergic receptor P2Y, G-protein coupled, 13	ADORA1	adenosine A1 receptor
FZD2	frizzled homolog 2 (Drosophila)	SSTR3	somatostatin receptor 3
GPR141	G protein-coupled receptor 141	HTR7	5-hydroxytryptamine (serotonin) receptor 7
GPR174	G protein-coupled receptor 174	OR7C2	olfactory receptor, family 7, subfamily C, member 2
GPR23	G protein-coupled receptor 23	TAAR6	trace amine associated receptor 6
GPR24	melanin-concentrating hormone receptor 1	CCRL2	chemokine (C-C motif) receptor-like 2
ACTB	actin, beta	FY	fuzzy
CYSLTR1	cysteinyl leukotriene receptor 1	FKSG83	FKSG83
GPR63	G protein-coupled receptor 63	TAAR9	trace amine associated receptor 9
TACR2	tachykinin receptor 2	MRGPRX1	MAS-related GPR, member X1
CCR3	chemokine (C-C motif) receptor 3	PPIA	peptidylprolyl isomerase A
GPR147	neuropeptide FF receptor 1	AGTRL1	angiotensin II receptor-like 1
TBXA2R	thromboxane A2 receptor	FZD9	frizzled homolog 9 (Drosophila)
GPR21	G protein-coupled receptor 21	GPR31	G protein-coupled receptor 31
GPR126	G protein-coupled receptor 126	P2RY8	purinergic receptor P2Y, G-protein coupled, 8
SSTR5	somatostatin receptor 5	OPRL1	opiate receptor-like 1
HTR1F	5-hydroxytryptamine (serotonin) receptor 1F	POLR2A	polymerase (RNA) II (DNA directed) polypeptide A
BAI1	brain-specific angiogenesis inhibitor 1	CD97	CD97 molecule
CCBP2	chemokine binding protein 2	VN1R2	vomer nasal 1 receptor 2
LONPL	lon peptidase 2, peroxisomal	CHRM3	cholinergic receptor, muscarinic 3, cardiac
GPR68	G protein-coupled receptor 68	MAS1L	MAS1 oncogene-like
GPR148	G protein-coupled receptor 148	GIPR	gastric inhibitory polypeptide receptor
LANCL1	LanC lantibiotic synthetase component C-like 1 (bacterial)	GPR30	G protein-coupled estrogen receptor 1
NPY1R	neuropeptide Y receptor Y1	PPYR1	pancreatic polypeptide receptor 1
C3AR1	complement component 3a receptor 1	CALCR	calcitonin receptor
OXGR1	oxoglutarate (alpha-ketoglutarate) receptor 1	SLC26A7	solute carrier family 26, member 7
HTR1E	5-hydroxytryptamine (serotonin) receptor 1E	GPR152	G protein-coupled receptor 152
GPR51	gamma-aminobutyric acid (GABA) B receptor, 2	CCR4	chemokine (C-C motif) receptor 4
GPR8	neuropeptides B/W receptor 2	GPR34	G protein-coupled receptor 34
GPR173	G protein-coupled receptor 173	GPR77	G protein-coupled receptor 77
GPR101	G protein-coupled receptor 101	SSTR2	somatostatin receptor 2
HCRTR2	hypocretin (orexin) receptor 2	DRD5	dopamine receptor D5

Symbol	Description	Symbol	Description
MATK	megakaryocyte-associated tyrosine kinase	MLNR	motilin receptor
EDG8	sphingosine-1-phosphate receptor 5	MRGPRD	MAS-related GPR, member D
GPR146	G protein-coupled receptor 146	MTNR1B	melatonin receptor 1B
LPHN1	latrophilin 1	NMBR	neuromedin B receptor
MAS1	MAS1 oncogene	LGR5	eucine rich repeat containing G protein coupled receptor 5
ADRA1B	adrenergic, alpha-1B-, receptor	LHCGR	uteinizing hormone/choriogonadotropin receptor
GPR85	G protein-coupled receptor 85	LPHN3	atrophilin 3
GPRC5B	G protein-coupled receptor, family C, group 5, member B	MC5R	melanocortin 5 receptor
GPR54	G protein-coupled receptor 54	HTR5A	5-hydroxytryptamine (serotonin) receptor 5A
OXTR	oxytocin receptor	HTR6	5-hydroxytryptamine (serotonin) receptor 6
OR2A4	OR2A4 olfactory receptor, family 2, subfamily A, member 4	IL8RA	interleukin 8 receptor, alpha
LPHN2	latrophilin 2	IL8RB	interleukin 8 receptor, beta
PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa	HRH4	histamine receptor H4
P2RY5	lysophosphatidic acid receptor 6	HTR2A	5-hydroxytryptamine (serotonin) receptor 2A
LGR7	relaxin/insulin-like family peptide receptor 1	HTR2C	5-hydroxytryptamine (serotonin) receptor 2C
PTGFR	prostaglandin F receptor (FP)	HTR4	5-hydroxytryptamine (serotonin) receptor 4
FZD6	frizzled homolog 6 (Drosophila)	GRM7	glutamate receptor, metabotropic 7
GRM4	glutamate receptor, metabotropic 4	GRM8	glutamate receptor, metabotropic 8
CALCRL	calcitonin receptor-like	HCRTR1	hypocretin (orexin) receptor 1
EBI2	Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled receptor)	HRH3	histamine receptor H3
CELSR2	adherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)	GRM1	glutamate receptor, metabotropic 1
EDG5	sphingosine-1-phosphate receptor 2	GRM3	glutamate receptor, metabotropic 3
GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like)	GRM5	glutamate receptor, metabotropic 5
GPR52	G protein-coupled receptor 52	GRM6	glutamate receptor, metabotropic 6
CCR5	chemokine (C-C motif) receptor 5	GPR97	G protein-coupled receptor 97
GCNT2	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)	GPRC5C	G protein-coupled receptor, family C, group 5, member C
GPR88	G-protein coupled receptor 88	GPRC5D	G protein-coupled receptor, family C, group 5, member D
EDG2	lysophosphatidic acid receptor 1	GPRC6A	G protein-coupled receptor, family C, group 6, member A
ADMR	G protein-coupled receptor 182	GPR73L1	prokineticin receptor 2
GPR44	G protein-coupled receptor 44	GPR74	G protein-coupled receptor 74
MRGPRF	MAS-related GPR, member F	GPR78	G protein-coupled receptor 78
ADRA1D	adrenergic, alpha-1D-, receptor	GPR84	G protein-coupled receptor 78
SMO	smoothed homolog (Drosophila)	GPR27	G protein-coupled receptor 27
PTGIR	prostaglandin I2 (prostacyclin) receptor (IP)	GPR37L1	G protein-coupled receptor 37 like 1
ELTD1	EGF, latrophilin and seven transmembrane domain containing 1	GPR50	G protein-coupled receptor 50
HTR2B	5-hydroxytryptamine (serotonin) receptor 2B	GPR73	prokineticin receptor 1
NMUR1	neuromedin U receptor 1	GPR17	G protein-coupled receptor 17
NTSR1	neurotensin receptor 1 (high affinity)	GPR18	G protein-coupled receptor 18
C5R1	complement component 5a receptor 1	GPR20	G protein-coupled receptor 20
P2RY12	purinergic receptor P2Y, G-protein coupled, 12	GPR26	G protein-coupled receptor 26
CCR10	chemokine (C-C motif) receptor 10	GPR114	G protein-coupled receptor 114
TBP	TATA binding protein	GPR123	G protein-coupled receptor 123
18S		GPR128	G protein-coupled receptor 128
CHRM2	cholinergic receptor, muscarinic 2	GPR145	melanin-concentrating hormone receptor 2
FZD1	frizzled homolog 1 (Drosophila)	GPBAR1	G protein-coupled bile acid receptor 1
AVPR2	arginine vasopressin receptor 2	GPR10	prolactin releasing hormone receptor
VIPR2	vasoactive intestinal peptide receptor 2	GPR103	G protein-coupled receptor 103
GPR124	G protein-coupled receptor 124	GPR112	G protein-coupled receptor 112
F2R	coagulation factor II (thrombin) receptor	GALR3	galanin receptor 3
SSTR1	somatostatin receptor 1	GHRHR	growth hormone releasing hormone receptor
B2M	beta-2 microglobulin	GLP1R	glucagon-like peptide 1 receptor
FPRL1	formyl peptide receptor-like 1	GLP2R	glucagon-like peptide 2 receptor
TACR3	tachykinin receptor 3	EMR3	egf-like module containing, mucin-like, hormone receptor-like 3
TAS1R1	taste receptor, type 1, member 1	F2RL3	coagulation factor II (thrombin) receptor-like 3
TRBV5-4	T cell receptor beta variable 5-4	FSHR	follicle stimulating hormone receptor
TRHR	thyrotropin-releasing hormone receptor	GALR1	galanin receptor 1
OPN1SW	opsin 1 (cone pigments), short-wave-sensitive	CASR	calcium-sensing receptor
OPN4	opsin 4	CCKAR	cholecystokinin A receptor
OPRD1	opioid receptor, delta 1	CCKBR	cholecystokinin B receptor
OPRK1	opioid receptor, kappa 1	CCR2	chemokine (C-C motif) receptor 2
NMUR2	neuromedin U receptor 2	AGTR1	angiotensin II receptor, type 1
NPY2R	neuropeptide Y receptor Y2	AGTR2	angiotensin II receptor, type 2
NPY5R	neuropeptide Y receptor Y5	BAI3	brain-specific angiogenesis inhibitor 3
NTSR2	neurotensin receptor 2	BRS3	bombesin-like receptor 3

Symbol	Description	Symbol	Description
TSHR	thyroid stimulating hormone receptor	GPR115	G protein-coupled receptor 115
UTS2R	urotensin 2 receptor	VIPR1	vasoactive intestinal peptide receptor 1
ADCYAP1	adenylate cyclase activating polypeptide 1	GPR143	G protein-coupled receptor 143
ADRA1A	adrenergic, alpha-1A-, receptor	GPR92	G protein-coupled receptor 92
ADRA2A	adrenergic, alpha-2A-, receptor	LGR6	leucine-rich repeat-containing G protein-coupled receptor 6
ADRB3	adrenergic receptor, beta 3	HRH1	histamine receptor H1
CCR6	chemokine (C-C motif) receptor 6	LANCL2	LanC lantibiotic synthetase component C-like 2
CCR7	chemokine (C-C motif) receptor 7	PTAFR	platelet-activating factor receptor
CCR8	chemokine (C-C motif) receptor 8	GPR56	G protein-coupled receptor 56
CCR9	chemokine (C-C motif) receptor 9	RPLP0	acidic ribosomal protein P0
CNR1	cannabinoid receptor 1	GPR15	G protein-coupled receptor 15
CNR2	cannabinoid receptor 2	GPR87	G protein-coupled receptor 87
CRHR1	corticotropin releasing hormone receptor 1	LTB4R	leukotriene B4 receptor
CRHR2	corticotropin releasing hormone receptor 2	CELSR1	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)
CX3CR1	chemokine (C-X3-C motif) receptor 1	GPRC5A	G protein-coupled receptor, family C, group 5, member A
CXCR3	chemokine (C-X-C motif) receptor 3	FZD3	frizzled homolog 3 (Drosophila)
CXCR4	chemokine (C-X-C motif) receptor 4	P2RY2	purinergic receptor P2Y, G-protein coupled, 2
CXCR6	chemokine (C-X-C motif) receptor 6	HDAC3	Histone deacetylase 3
DRD2	dopamine receptor D2	GPR7	G protein-coupled receptor 7
DRD3	dopamine receptor D3	GPR125	G protein-coupled receptor 125
DRD4	dopamine receptor D4	GPR35	G protein-coupled receptor 35
EDNRB	endothelin receptor type B	ADRB1	adrenergic receptor, beta 1
SCTR	secretin receptor	GPR82	G protein-coupled receptor 82
SSTR4	somatostatin receptor 4	PGK1	phosphoglycerate kinase 1
SUCNR1	succinate receptor 1	HTR1D	5-hydroxytryptamine (serotonin) receptor 1D
TACR1	tachykinin receptor 1	F2RL1	coagulation factor II (thrombin) receptor-like 1
PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	P2RY11	purinergic receptor P2Y, G-protein coupled, 11
RGR	retinal G protein coupled receptor	P2RY4	pyrimidinergic receptor P2Y, G-protein coupled, 4
RHO	rhomboid	SEN3	SUMO1/sentrin/SMT3 specific peptidase 3
RRH	retinal pigment epithelium derived rhodopsin homolog	LTB4R2	leukotriene B4 receptor 2
OPRM1	opioid receptor, mu 1	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3
OR7E5P	olfactory receptor, family 7, subfamily E, member 5 pseudogene	EDG4	lysophosphatidic acid receptor 2
P2RY14	purinergic receptor P2Y, G-protein coupled, 14	GPR22	G protein-coupled receptor 22
P2RY6	pyrimidinergic receptor P2Y, G-protein coupled, 6	HPRT1	hypoxanthine phosphoribosyltransferase 1
PCDH15	protocadherin-related 15	MRGPRX2	MAS-related GPR, member X2
PTGDR	prostaglandin D2 receptor (DP)	IPO8	importin 8
PTGER3	prostaglandin E receptor 3 (subtype EP3)	ADRB2	adrenergic, beta-2-, receptor, surface
PTH2R	parathyroid hormone 2 receptor	HMBS	hydroxymethylbilane synthase
F2RL2	coagulation factor II (thrombin) receptor-like 2	LGR4	leucine-rich repeat-containing G protein-coupled receptor 4
CCRL1	chemokine (C-C motif) receptor-like 1	FPR1	formyl peptide receptor 1
P2RY1	purinergic receptor P2Y, G-protein coupled, 1	GPR3	G-protein coupled receptor 3
EDG3	sphingosine-1-phosphate receptor 3	EMR2	egf-like module containing, mucin-like, hormone receptor-like 2
EDG1	sphingosine-1-phosphate receptor 1	CHRM4	cholinergic receptor, muscarinic 4
GPR61	G protein-coupled receptor 61	GPR75	G protein-coupled receptor 75
GNRHR2	gonadotropin-releasing hormone (type 2) receptor 2	NPY6R	neuropeptide Y receptor Y6
BDKRB1	bradykinin receptor B1	GUSB	glucuronidase, beta
FZD4	frizzled homolog 4 (Drosophila)	ADORA2A	adenosine A2a receptor
MRGPRE	MAS-related GPR, member E	TFRC	transferrin receptor (p90, CD71)
AVPR1B	arginine vasopressin receptor 1B	GPR17	G protein-coupled receptor 17
PR153	GPR153-Hs00664129_s1	EDNRA	endothelin receptor type A
GPR161	G protein-coupled receptor 161	GPR116	G protein-coupled receptor 116
CCR1	chemokine (C-C motif) receptor 1	GPR55	G protein-coupled receptor 55
VN1R1	vomeroneasal 1 receptor 1	MC1R	melanocortin 1 receptor
FZD7	frizzled homolog 7 (Drosophila)	GPR160	G protein-coupled receptor 160
FZD8	frizzled homolog 8 (Drosophila)	EDG7	endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 7
GPR19	G protein-coupled receptor 19	MASS1	monogenic, audiogenic seizure susceptibility 1
GPR110	G protein-coupled receptor 110	GPR64	G protein-coupled receptor 64
GPR81	G protein-coupled receptor 81	MTNR1A	melatonin receptor 1A
ADORA2B	adenosine A2b receptor	AVPR1A	arginine vasopressin receptor 1A
GPR43	free fatty acid receptor 2	TM7SF1	G protein-coupled receptor 137B
GALR2	galanin receptor 2		
GPR39	G protein-coupled receptor 39		
PHGDH	phosphoglycerate dehydrogenase		
FZD5	frizzled homolog 5 (Drosophila)		