

RT² Profiler PCR Array (384-Well Format)

Human G Protein Coupled Receptors 384HT

Cat. no. 330231 PAHS-3009ZE

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format G	Roche® LightCycler® 480 (384-well block)

Description

The Human G Protein Coupled Receptors 384HT RT² Profiler™ PCR Array profiles the expression of a comprehensive panel of 370 genes encoding the most important G Protein Coupled Receptors (GPCR). GPCR regulate a number of normal biological processes and play roles in the pathophysiology of many diseases upon dysregulation of their downstream signal transduction activities. As a result, they represent 30 percent of the targets for all current drug development. Developing drug screening assays requires a survey of which GPCR the chosen cell-based model system expresses, to determine not only the expression of the target GPCR, but also related GPCR to assess off-target side effects. Expression of other unrelated GPCR (even orphan receptors whose ligand are unknown) may also correlate with off-target side effects. The ligands that bind and activate the receptors on this array include neurotransmitters and neuropeptides, hormones, chemokines and cytokines, lipid signaling molecules, light-sensitive compounds, and odorants and pheromones. The normal biological processes regulated by GPCR include, but are not limited to, behavioral and mood regulation (serotonin, dopamine, GABA, glutamate, and other neurotransmitter receptors), autonomic (sympathetic and parasympathetic) nervous system transmission (blood pressure, heart rate, and digestive processes via hormone receptors), inflammation and immune system regulation (chemokine receptors, histamine receptors), vision (opsins like rhodopsin), and smell (olfactory receptors for odorants and vomeronasal receptors for pheromones). Using real-time PCR, you can easily and reliably analyze the expression of a comprehensive panel of G Protein Coupled Receptor genes with this array.

For further details, consult the *RT² Profiler PCR Array Handbook*.



Sample & Assay Technologies

Shipping and storage

RT² Profiler PCR Arrays in formats E and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

For long term storage, keep plates at –20°C.

Note: Ensure that you have the correct RT² Profiler PCR Array format for your real-time cycler (see table above).

Note: Open the package and store the products appropriately immediately on receipt.

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Hs.377783	NM_001118	ADCYAP1R1	Adenylate cyclase activating polypeptide 1 (pituitary) receptor type I
A02	Hs.77867	NM_000674	ADORA1	Adenosine A1 receptor
A03	Hs.197029	NM_000675	ADORA2A	Adenosine A2a receptor
A04	Hs.167046	NM_000676	ADORA2B	Adenosine A2b receptor
A05	Hs.281342	NM_000677	ADORA3	Adenosine A3 receptor
A06	Hs.709175	NM_033303	ADRA1A	Adrenergic, alpha-1A-, receptor
A07	Hs.368632	NM_000679	ADRA1B	Adrenergic, alpha-1B-, receptor
A08	Hs.557	NM_000678	ADRA1D	Adrenergic, alpha-1D-, receptor
A09	Hs.249159	NM_000681	ADRA2A	Adrenergic, alpha-2A-, receptor
A10	Hs.247686	NM_000682	ADRA2B	Adrenergic, alpha-2B-, receptor
A11	Hs.123022	NM_000683	ADRA2C	Adrenergic, alpha-2C-, receptor
A12	Hs.99913	NM_000684	ADRB1	Adrenergic, beta-1-, receptor
A13	Hs.591251	NM_000024	ADRB2	Adrenergic, beta-2-, receptor, surface
A14	Hs.2549	NM_000025	ADRB3	Adrenergic, beta-3-, receptor
A15	Hs.728754	NM_031850	AGTR1	Angiotensin II receptor, type 1
A16	Hs.405348	NM_000686	AGTR2	Angiotensin II receptor, type 2
A17	Hs.438311	NM_005161	APLNR	Apelin receptor
A18	Hs.2131	NM_000706	AVPR1A	Arginine vasopressin receptor 1A
A19	Hs.1372	NM_000707	AVPR1B	Arginine vasopressin receptor 1B
A20	Hs.567240	NM_000054	AVPR2	Arginine vasopressin receptor 2
A21	Hs.194654	NM_001702	BAI1	Brain-specific angiogenesis inhibitor 1
A22	Hs.524138	NM_001703	BAI2	Brain-specific angiogenesis inhibitor 2
A23	Hs.13261	NM_001704	BAI3	Brain-specific angiogenesis inhibitor 3
A24	Hs.525572	NM_000710	BDKRB1	Bradykinin receptor B1
B01	Hs.654542	NM_000623	BDKRB2	Bradykinin receptor B2
B02	Hs.121484	NM_001727	BRS3	Bombesin-like receptor 3
B03	Hs.591148	NM_004054	C3AR1	Complement component 3a receptor 1
B04	Hs.2161	NM_001736	C5AR1	Complement component 5a receptor 1
B05	Hs.489127	NM_001742	CALCR	CALCITONIN RECEPTOR
B06	Hs.470882	NM_005795	CALCRL	Calcitonin receptor-like
B07	Hs.435615	NM_000388	CASR	Calcium-sensing receptor
B08	Hs.146346	NM_001296	CCBP2	Chemokine binding protein 2
B09	Hs.129	NM_000730	CCKAR	Cholecystokinin A receptor
B10	Hs.203	NM_176875	CCKBR	Cholecystokinin B receptor
B11	Hs.301921	NM_001295	CCR1	Chemokine (C-C motif) receptor 1
B12	Hs.278446	NM_016602	CCR10	Chemokine (C-C motif) receptor 10
B13	Hs.511794	NM_001123396	CCR2	Chemokine (C-C motif) receptor 2
B14	Hs.506190	NM_001837	CCR3	Chemokine (C-C motif) receptor 3
B15	Hs.184926	NM_005508	CCR4	Chemokine (C-C motif) receptor 4
B16	Hs.450802	NM_000579	CCR5	Chemokine (C-C motif) receptor 5
B17	Hs.46468	NM_004367	CCR6	Chemokine (C-C motif) receptor 6
B18	Hs.370036	NM_001838	CCR7	Chemokine (C-C motif) receptor 7
B19	Hs.113222	NM_005201	CCR8	Chemokine (C-C motif) receptor 8
B20	Hs.225946	NM_006641	CCR9	Chemokine (C-C motif) receptor 9
B21	Hs.729361	NM_016557	CCRL1	Chemokine (C-C motif) receptor-like 1
B22	Hs.535713	NM_003965	CCRL2	Chemokine (C-C motif) receptor-like 2
B23	Hs.466039	NM_001784	CD97	CD97 molecule
B24	Hs.252387	NM_014246	CELSR1	Cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)
				Cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)

Position	UniGene	GenBank	Symbol	Description
C01	Hs.57652	NM_001408	CELSR2	Drosophila)
C02	Hs.631926	NM_001407	CELSR3	Cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila)
C03	Hs.632119	NM_000738	CHRM1	Cholinergic receptor, muscarinic 1
C04	Hs.535891	NM_000739	CHRM2	Cholinergic receptor, muscarinic 2
C05	Hs.7138	NM_000740	CHRM3	Cholinergic receptor, muscarinic 3
C06	Hs.248100	NM_000741	CHRM4	Cholinergic receptor, muscarinic 4
C07	Hs.584747	NM_012125	CHRM5	Cholinergic receptor, muscarinic 5
C08	Hs.197143	NM_004072	CMKLR1	CHEMOKINE-LIKE RECEPTOR 1
C09	Hs.75110	NM_016083	CNR1	Cannabinoid receptor 1 (brain)
C10	Hs.73037	NM_001841	CNR2	Cannabinoid receptor 2 (macrophage)
C11	Hs.300684	NM_014478	CRCP	CGRP receptor component
C12	Hs.417628	NM_004382	CRHR1	Corticotropin releasing hormone receptor 1
C13	Hs.729970	NM_001883	CRHR2	Corticotropin releasing hormone receptor 2
C14	Hs.78913	NM_001337	CX3CR1	Chemokine (C-X3-C motif) receptor 1
C15	Hs.194778	NM_000634	CXCR1	Chemokine (C-X-C motif) receptor 1
C16	Hs.846	NM_001557	CXCR2	Chemokine (C-X-C motif) receptor 2
C17	Hs.198252	NM_001504	CXCR3	Chemokine (C-X-C motif) receptor 3
C18	Hs.593413	NM_003467	CXCR4	Chemokine (C-X-C motif) receptor 4
C19	Hs.113916	NM_001716	CXCR5	Chemokine (C-X-C motif) receptor 5
C20	Hs.34526	NM_006564	CXCR6	Chemokine (C-X-C motif) receptor 6
C21	Hs.471751	NM_020311	CXCR7	Chemokine (C-X-C motif) receptor 7
C22	Hs.201300	NM_006639	CYSLTR1	Cysteinyl leukotriene receptor 1
C23	Hs.253706	NM_020377	CYSLTR2	Cysteinyl leukotriene receptor 2
C24	Hs.153381	NM_002036	DARC	Duffy blood group, chemokine receptor
D01	Hs.2624	NM_000794	DRD1	Dopamine receptor D1
D02	Hs.73893	NM_000795	DRD2	Dopamine receptor D2
D03	Hs.121478	NM_000796	DRD3	Dopamine receptor D3
D04	Hs.99922	NM_000797	DRD4	Dopamine receptor D4
D05	Hs.380681	NM_000798	DRD5	Dopamine receptor D5
D06	Hs.183713	NM_001957	EDNRA	Endothelin receptor type A
D07	Hs.82002	NM_000115	EDNRB	Endothelin receptor type B
D08	Hs.132314	NM_022159	ELTD1	EGF, latrophilin and seven transmembrane domain containing 1
D09	Hs.2375	NM_001974	EMR1	Egf-like module containing, mucin-like, hormone receptor-like 1
D10	Hs.482562	NM_001992	F2R	Coagulation factor II (thrombin) receptor
D11	Hs.154299	NM_005242	F2RL1	Coagulation factor II (thrombin) receptor-like 1
D12	Hs.42502	NM_004101	F2RL2	Coagulation factor II (thrombin) receptor-like 2
D13	Hs.137574	NM_003950	F2RL3	Coagulation factor II (thrombin) receptor-like 3
D14	Hs.248127	NM_005303	FFAR1	Free fatty acid receptor 1
D15	Hs.248056	NM_005306	FFAR2	Free fatty acid receptor 2
D16	Hs.248055	NM_005304	FFAR3	Free fatty acid receptor 3
D17	Hs.753	NM_002029	FPR1	Formyl peptide receptor 1
D18	Hs.99855	NM_001462	FPR2	Formyl peptide receptor 2
D19	Hs.445466	NM_002030	FPR3	Formyl peptide receptor 3
D20	Hs.1428	NM_181446	FSHR	Follicle stimulating hormone receptor
D21	Hs.94234	NM_003505	FZD1	Frizzled family receptor 1
D22	Hs.31664	NM_007197	FZD10	Frizzled family receptor 10
D23	Hs.142912	NM_001466	FZD2	Frizzled family receptor 2
D24	Hs.40735	NM_017412	FZD3	Frizzled family receptor 3
E01	Hs.19545	NM_012193	FZD4	Frizzled family receptor 4
E02	Hs.17631	NM_003468	FZD5	Frizzled family receptor 5
E03	Hs.591863	NM_003506	FZD6	Frizzled family receptor 6
E04	Hs.173859	NM_003507	FZD7	Frizzled family receptor 7
E05	Hs.302634	NM_031866	FZD8	Frizzled family receptor 8
E06	Hs.647029	NM_003508	FZD9	Frizzled family receptor 9
E07	Hs.167017	NM_001470	GABBR1	Gamma-aminobutyric acid (GABA) B receptor, 1
E08	Hs.198612	NM_005458	GABBR2	Gamma-aminobutyric acid (GABA) B receptor, 2
E09	Hs.272191	NM_001480	GALR1	Galanin receptor 1
E10	Hs.666366	NM_003857	GALR2	GALANIN RECEPTOR 2
E11	Hs.158353	NM_003614	GALR3	Galanin receptor 3
E12	Hs.208	NM_000160	GCGR	Glucagon receptor
E13	Hs.767	NM_000823	GHRHR	Growth hormone releasing hormone receptor
E14	Hs.248115	NM_004122	GHSR	Growth hormone secretagogue receptor
E15	Hs.658534	NM_000164	GIPR	Gastric inhibitory polypeptide receptor
E16	Hs.389103	NM_002062	GLP1R	Glucagon-like peptide 1 receptor
E17	Hs.248202	NM_004246	GLP2R	Glucagon-like peptide 2 receptor
E18	Hs.407587	NM_000406	GNRHR	Gonadotropin-releasing hormone receptor
E19	Hs.160954	NM_170699	GPBAR1	G protein-coupled bile acid receptor 1
E20	Hs.20961	NM_001505	GPER	G protein-coupled estrogen receptor 1
E21	Hs.184907	NM_005279	GPR1	G protein-coupled receptor 1
E22	Hs.350569	NM_054021	GPR101	G protein-coupled receptor 101

Position	UniGene	GenBank	Symbol	Description
E23	Hs.256897	NM_153840	GPR110	G protein-coupled receptor 110
E24	Hs.715357	NM_153839	GPR111	G protein-coupled receptor 111
F01	Hs.381354	NM_153834	GPR112	G protein-coupled receptor 112
F02	Hs.631878	NM_153835	GPR113	G protein-coupled receptor 113
F03	Hs.187884	NM_153837	GPR114	G protein-coupled receptor 114
F04	Hs.710050	NM_153838	GPR115	G protein-coupled receptor 115
F05	Hs.362806	NM_015234	GPR116	G protein-coupled receptor 116
F06	Hs.496762	NM_178471	GPR119	G protein-coupled receptor 119
F07	Hs.123034	NM_005288	GPR12	G protein-coupled receptor 12
F08	Hs.435183	NM_001083909	GPR123	G protein-coupled receptor 123
F09	Hs.708086	NM_032777	GPR124	G protein-coupled receptor 124
F10	Hs.99195	NM_145290	GPR125	G protein-coupled receptor 125
F11	Hs.715560	NM_020455	GPR126	G protein-coupled receptor 126
F12	Hs.334511	NM_032787	GPR128	G protein-coupled receptor 128
F13	Hs.532504	NM_013345	GPR132	G protein-coupled receptor 132
F14	Hs.656751	NM_198827	GPR133	G protein-coupled receptor 133
F15	Hs.647573	NM_022571	GPR135	G protein-coupled receptor 135
F16	Hs.446875	NM_001002911	GPR139	G protein-coupled receptor 139
F17	Hs.688230	NM_181791	GPR141	G protein-coupled receptor 141
F18	Hs.574368	NM_181790	GPR142	G protein-coupled receptor 142
F19	Hs.74124	NM_000273	GPR143	G protein-coupled receptor 143
F20	Hs.454099	NM_001161808	GPR144	G protein-coupled receptor 144
F21	Hs.729332	NM_138445	GPR146	G protein-coupled receptor 146
F22	Hs.452574	NM_207364	GPR148	G protein-coupled receptor 148
F23	Hs.688231	NM_001038705	GPR149	G protein-coupled receptor 149
F24	Hs.563128	NM_005290	GPR15	G protein-coupled receptor 15
G01	Hs.143315	NM_199243	GPR150	G protein-coupled receptor 150
G02	Hs.483732	NM_194251	GPR151	G protein-coupled receptor 151
G03	Hs.567997	NM_206997	GPR152	G protein-coupled receptor 152
G04	Hs.531581	NM_207370	GPR153	G protein-coupled receptor 153
G05	Hs.333358	NM_153002	GPR156	G protein-coupled receptor 156
G06	Hs.632367	NM_024980	GPR157	G protein-coupled receptor 157
G07	Hs.499108	NM_020752	GPR158	G protein-coupled receptor 158
G08	Hs.231320	NM_014373	GPR160	G protein-coupled receptor 160
G09	Hs.271809	NM_153832	GPR161	G protein-coupled receptor 161
G10	Hs.631654	NM_014449	GPR162	G protein-coupled receptor 162
G11	Hs.46453	NM_005291	GPR17	G protein-coupled receptor 17
G12	Hs.549152	NM_013308	GPR171	G protein-coupled receptor 171
G13	Hs.661815	NM_018969	GPR173	G protein-coupled receptor 173
G14	Hs.326713	NM_032553	GPR174	G protein-coupled receptor 174
G15	Hs.37196	NM_007223	GPR176	G protein-coupled receptor 176
G16	Hs.462915	NM_001004334	GPR179	G protein-coupled receptor 179
G17	Hs.631765	NM_005292	GPR18	G protein-coupled receptor 18
G18	Hs.483909	NM_007264	GPR182	G protein-coupled receptor 182
G19	Hs.784	NM_004951	GPR183	G protein-coupled receptor 183
G20	Hs.657862	NM_006143	GPR19	G protein-coupled receptor 19
G21	Hs.188859	NM_005293	GPR20	G protein-coupled receptor 20
G22	Hs.728941	NM_005294	GPR21	G protein-coupled receptor 21
G23	Hs.657277	NM_005295	GPR22	G protein-coupled receptor 22
G24	Hs.534316	NM_005298	GPR25	G protein-coupled receptor 25
H01	Hs.12751	NM_153442	GPR26	G protein-coupled receptor 26
H02	Hs.591653	NM_018971	GPR27	G protein-coupled receptor 27
H03	Hs.66542	NM_005281	GPR3	G protein-coupled receptor 3
H04	Hs.248124	NM_005299	GPR31	G protein-coupled receptor 31
H05	Hs.515555	NM_001506	GPR32	G protein-coupled receptor 32
H06	Hs.495989	NM_005300	GPR34	G protein-coupled receptor 34
H07	Hs.239891	NM_005301	GPR35	G protein-coupled receptor 35
H08	Hs.406094	NM_005302	GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like)
H09	Hs.132049	NM_004767	GPR37L1	G protein-coupled receptor 37 like 1
H10	Hs.432395	NM_001508	GPR39	G protein-coupled receptor 39
H11	Hs.17170	NM_005282	GPR4	G protein-coupled receptor 4
H12	Hs.299567	NM_004778	PTGDR2	Prostaglandin D2 receptor 2
H13	Hs.590903	NM_007227	GPR45	G protein-coupled receptor 45
H14	Hs.567390	NM_004224	GPR50	G protein-coupled receptor 50
H15	Hs.673850	NM_005684	GPR52	G protein-coupled receptor 52
H16	Hs.114545	NM_005683	GPR55	G protein-coupled receptor 55
H17	Hs.513633	NM_005682	GPR56	G protein-coupled receptor 56
H18	Hs.46332	NM_005284	GPR6	G protein-coupled receptor 6
H19	Hs.709782	NM_031936	GPR61	G protein-coupled receptor 61
H20	Hs.232213	NM_080865	GPR62	G protein-coupled receptor 62
H21	Hs.632612	NM_030784	GPR63	G protein-coupled receptor 63

Position	UniGene	GenBank	Symbol	Description
H22	Hs.146978	NM_005756	GPR64	G protein-coupled receptor 64
H23	Hs.513440	NM_003608	GPR65	G protein-coupled receptor 65
H24	Hs.8882	NM_003485	GPR68	G protein-coupled receptor 68
I01	Hs.696596	NM_006794	GPR75	G protein-coupled receptor 75
I02	Hs.534412	NM_018485	GPR77	G protein-coupled receptor 77
I03	Hs.350588	NM_080819	GPR78	G protein-coupled receptor 78
I04	Hs.664795	NM_080817	GPR82	G protein-coupled receptor 82
I05	Hs.272385	NM_016540	GPR83	G protein-coupled receptor 83
I06	Hs.306199	NM_020370	GPR84	G protein-coupled receptor 84
I07	Hs.152009	NM_018970	GPR85	G protein-coupled receptor 85
I08	Hs.591292	NM_023915	GPR87	G protein-coupled receptor 87
I09	Hs.170053	NM_022049	GPR88	G protein-coupled receptor 88
I10	Hs.383403	NM_170776	GPR97	G protein-coupled receptor 97
I11	Hs.591777	NM_032119	GPR98	G protein-coupled receptor 98
I12	Hs.631733	NM_003979	GPRC5A	G protein-coupled receptor, family C, group 5, member A
I13	Hs.148685	NM_016235	GPRC5B	G protein-coupled receptor, family C, group 5, member B
I14	Hs.446438	NM_018653	GPRC5C	G protein-coupled receptor, family C, group 5, member C
I15	Hs.644599	NM_018654	GPRC5D	G protein-coupled receptor, family C, group 5, member D
I16	Hs.266745	NM_148963	GPRC6A	G protein-coupled receptor, family C, group 6, member A
I17	Hs.128848	NM_000831	GRIK3	Glutamate receptor, ionotropic, kainate 3
I18	Hs.32945	NM_000838	GRM1	Glutamate receptor, metabotropic 1
I19	Hs.121510	NM_000839	GRM2	Glutamate receptor, metabotropic 2
I20	Hs.590575	NM_000840	GRM3	Glutamate receptor, metabotropic 3
I21	Hs.654847	NM_000841	GRM4	Glutamate receptor, metabotropic 4
I22	Hs.147361	NM_000842	GRM5	Glutamate receptor, metabotropic 5
I23	Hs.248131	NM_000843	GRM6	Glutamate receptor, metabotropic 6
I24	Hs.606393	NM_000844	GRM7	Glutamate receptor, metabotropic 7
J01	Hs.449625	NM_000845	GRM8	Glutamate receptor, metabotropic 8
J02	Hs.567282	NM_005314	GRPR	Gastrin-releasing peptide receptor
J03	Hs.610873	NM_032554	HCAR1	Hydroxycarboxylic acid receptor 1
J04	Hs.524812	NM_177551	HCAR2	Hydroxycarboxylic acid receptor 2
J05	Hs.388226	NM_001525	HCRTR1	Hypocretin (orexin) receptor 1
J06	Hs.151624	NM_001526	HCRTR2	Hypocretin (orexin) receptor 2
J07	Hs.1570	NM_000861	HRH1	Histamine receptor H1
J08	Hs.247885	NM_022304	HRH2	Histamine receptor H2
J09	Hs.251399	NM_007232	HRH3	Histamine receptor H3
J10	Hs.287388	NM_021624	HRH4	Histamine receptor H4
J11	Hs.247940	NM_000524	HTR1A	5-hydroxytryptamine (serotonin) receptor 1A
J12	Hs.123016	NM_000863	HTR1B	5-hydroxytryptamine (serotonin) receptor 1B
J13	Hs.121482	NM_000864	HTR1D	5-hydroxytryptamine (serotonin) receptor 1D
J14	Hs.1611	NM_000865	HTR1E	5-hydroxytryptamine (serotonin) receptor 1E
J15	Hs.248136	NM_000866	HTR1F	5-hydroxytryptamine (serotonin) receptor 1F
J16	Hs.654586	NM_000621	HTR2A	5-hydroxytryptamine (serotonin) receptor 2A
J17	Hs.421649	NM_000867	HTR2B	5-hydroxytryptamine (serotonin) receptor 2B
J18	Hs.149037	NM_000868	HTR2C	5-hydroxytryptamine (serotonin) receptor 2C
J19	Hs.413899	NM_000869	HTR3A	5-hydroxytryptamine (serotonin) receptor 3A
J20	Hs.241377	NM_006028	HTR3B	5-hydroxytryptamine (serotonin) receptor 3B
J21	Hs.483773	NM_000870	HTR4	5-hydroxytryptamine (serotonin) receptor 4
J22	Hs.65791	NM_024012	HTR5A	5-hydroxytryptamine (serotonin) receptor 5A
J23	Hs.22180	NM_000871	HTR6	5-hydroxytryptamine (serotonin) receptor 6
J24	Hs.73739	NM_000872	HTR7	5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)
K01	Hs.208229	NM_032551	KISS1R	KISS1 receptor
K02	Hs.705413	NM_002303	LEPR	Leptin receptor
K03	Hs.502176	NM_018490	LGR4	Leucine-rich repeat containing G protein-coupled receptor 4
K04	Hs.658889	NM_003667	LGR5	Leucine-rich repeat containing G protein-coupled receptor 5
K05	Hs.468490	NM_000233	LHCGR	Luteinizing hormone/choriogonadotropin receptor
K06	Hs.126667	NM_057159	LPAR1	Lysophosphatidic acid receptor 1
K07	Hs.122575	NM_004720	LPAR2	Lysophosphatidic acid receptor 2
K08	Hs.674915	NM_012152	LPAR3	Lysophosphatidic acid receptor 3
K09	Hs.522701	NM_005296	LPAR4	Lysophosphatidic acid receptor 4
K10	Hs.155538	NM_020400	LPAR5	Lysophosphatidic acid receptor 5
K11	Hs.123464	NM_005767	LPAR6	Lysophosphatidic acid receptor 6
K12	Hs.654658	NM_014921	LPHN1	Latrophilin 1
K13	Hs.24212	NM_012302	LPHN2	Latrophilin 2
K14	Hs.28391	NM_015236	LPHN3	Latrophilin 3
K15	Hs.655431	NM_181657	LTB4R	Leukotriene B4 receptor
K16	Hs.130685	NM_019839	LTB4R2	Leukotriene B4 receptor 2
K17	Hs.99900	NM_002377	MAS1	MAS1 oncogene
K18	Hs.513829	NM_002386	MC1R	Melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor)
K19	Hs.248144	NM_000529	MC2R	Melanocortin 2 receptor (adrenocorticotrophic hormone)
K20	Hs.248018	NM_019888	MC3R	Melanocortin 3 receptor

Position	UniGene	GenBank	Symbol	Description
K21	Hs.532833	NM_005912	MC4R	Melanocortin 4 receptor
K22	Hs.248145	NM_005913	MC5R	Melanocortin 5 receptor
K23	Hs.248122	NM_005297	MCHR1	Melanin-concentrating hormone receptor 1
K24	Hs.591342	NM_032503	MCHR2	Melanin-concentrating hormone receptor 2
L01	Hs.527802	NM_198923	MRGPRD	MAS-related GPR, member D
L02	Hs.706565	NM_001039165	MRGPRE	MAS-related GPR, member E
L03	Hs.118513	NM_145015	MRGPRF	MAS-related GPR, member F
L04	Hs.730306	NM_001164377	MRGPRG	MAS-related GPR, member G
L05	Hs.711459	NM_147199	MRGPRX1	MAS-related GPR, member X1
L06	Hs.350566	NM_054030	MRGPRX2	MAS-related GPR, member X2
L07	Hs.380177	NM_054031	MRGPRX3	MAS-related GPR, member X3
L08	Hs.632138	NM_054032	MRGPRX4	MAS-related GPR, member X4
L09	Hs.243467	NM_005958	MTNR1A	Melatonin receptor 1A
L10	Hs.569039	NM_005959	MTNR1B	Melatonin receptor 1B
L11	Hs.654478	NM_002511	NMBR	Neurotrophin receptor
L12	Hs.471619	NM_006056	NMUR1	Neurotrophin receptor 1
L13	Hs.283093	NM_020167	NMUR2	Neurotrophin receptor 2
L14	Hs.248117	NM_005285	NPBWR1	Neuropeptides B/W receptor 1
L15	Hs.248118	NM_005286	NPBWR2	Neuropeptides B/W receptor 2
L16	Hs.302026	NM_022146	NPFPR1	Neuropeptide FF receptor 1
L17	Hs.99231	NM_053036	NPFPR2	Neuropeptide FF receptor 2
L18	Hs.490330	NM_000906	NPR1	Natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
L19	Hs.78518	NM_003995	NPR2	Natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B)
L20	Hs.237028	NM_000908	NPR3	Natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
L21	Hs.652373	NM_207172	NPSR1	Neuropeptide S receptor 1
L22	Hs.519057	NM_000909	NPY1R	Neuropeptide Y receptor Y1
L23	Hs.37125	NM_000910	NPY2R	Neuropeptide Y receptor Y2
L24	Hs.598503	NM_006174	NPY5R	Neuropeptide Y receptor Y5
M01	Hs.590869	NM_002531	NTSR1	Neurotensin receptor 1 (high affinity)
M02	Hs.131138	NM_012344	NTSR2	Neurotensin receptor 2
M03	Hs.677835	NM_181745	O3FAR1	Omega-3 fatty acid receptor 1
M04	Hs.67896	NM_007346	OGFR	Opioid growth factor receptor
M05	Hs.656404	NM_001708	OPN1SW	Opsin 1 (cone pigments), short-wave-sensitive
M06	Hs.534399	NM_014322	OPN3	Opsin 3
M07	Hs.283922	NM_033282	OPN4	Opsin 4
M08	Hs.213717	NM_181744	OPN5	Opsin 5
M09	Hs.372	NM_000911	OPRD1	Opioid receptor, delta 1
M10	Hs.106795	NM_000912	OPRK1	Opioid receptor, kappa 1
M11	Hs.2859	NM_000913	OPRL1	Opiate receptor-like 1
M12	Hs.2353	NM_000914	OPRM1	Opioid receptor, mu 1
M13	Hs.352218	NM_080818	OXGR1	Oxoglutarate (alpha-ketoglutarate) receptor 1
M14	Hs.2820	NM_000916	OXTR	Oxytocin receptor
M15	Hs.654526	NM_002563	P2RY1	Purinergic receptor P2Y, G-protein coupled, 1
M16	Hs.296433	NM_198333	P2RY10	Purinergic receptor P2Y, G-protein coupled, 10
M17	Hs.166168	NM_002566	P2RY11	Purinergic receptor P2Y, G-protein coupled, 11
M18	Hs.591281	NM_022788	P2RY12	Purinergic receptor P2Y, G-protein coupled, 12
M19	Hs.546396	NM_176894	P2RY13	Purinergic receptor P2Y, G-protein coupled, 13
M20	Hs.2465	NM_014879	P2RY14	Purinergic receptor P2Y, G-protein coupled, 14
M21	Hs.339	NM_002564	P2RY2	Purinergic receptor P2Y, G-protein coupled, 2
M22	Hs.673854	NM_002565	P2RY4	Pyrimidinergic receptor P2Y, G-protein coupled, 4
M23	Hs.16362	NM_004154	P2RY6	Pyrimidinergic receptor P2Y, G-protein coupled, 6
M24	Hs.111377	NM_178129	P2RY8	Purinergic receptor P2Y, G-protein coupled, 8
N01	Hs.509067	NM_002609	PDGFRB	Platelet-derived growth factor receptor, beta polypeptide
N02	Hs.458573	NM_006207	PDGFRL	Platelet-derived growth factor receptor-like
N03	Hs.524719	NM_005972	PPYR1	Pancreatic polypeptide receptor 1
N04	Hs.248119	NM_004248	PRLHR	Prolactin releasing hormone receptor
N05	Hs.683430	NM_138964	PROKR1	Prokineticin receptor 1
N06	Hs.375029	NM_144773	PROKR2	Prokineticin receptor 2
N07	Hs.709174	NM_000952	PTAFR	Platelet-activating factor receptor
N08	Hs.306831	NM_000953	PTGDR	Prostaglandin D2 receptor (DP)
N09	Hs.159360	NM_000955	PTGER1	Prostaglandin E receptor 1 (subtype EP1), 42kDa
N10	Hs.2090	NM_000956	PTGER2	Prostaglandin E receptor 2 (subtype EP2), 53kDa
N11	Hs.445000	NM_198715	PTGER3	Prostaglandin E receptor 3 (subtype EP3)
N12	Hs.199248	NM_000958	PTGER4	Prostaglandin E receptor 4 (subtype EP4)
N13	Hs.654365	NM_000959	PTGFR	Prostaglandin F receptor (FP)
N14	Hs.458324	NM_000960	PTGIR	Prostaglandin I2 (prostacyclin) receptor (IP)
N15	Hs.1019	NM_000316	PTH1R	Parathyroid hormone 1 receptor
N16	Hs.570296	NM_005048	PTH2R	Parathyroid hormone 2 receptor

Position	UniGene	GenBank	Symbol	Description
N17	Hs.368977	NM_198179	QRFP	Pyroglutamylated RFamide peptide receptor
N18	Hs.1544	NM_002921	RGR	Retinal G protein coupled receptor
N19	Hs.247565	NM_000539	RHO	Rhodopsin
N20	Hs.658310	NM_006583	RRH	Retinal pigment epithelium-derived rhodopsin homolog
N21	Hs.591686	NM_021634	RXFP1	Relaxin/insulin-like family peptide receptor 1
N22	Hs.680763	NM_130806	RXFP2	Relaxin/insulin-like family peptide receptor 2
N23	Hs.170146	NM_016568	RXFP3	Relaxin/insulin-like family peptide receptor 3
N24	Hs.449914	NM_181885	RXFP4	Relaxin/insulin-like family peptide receptor 4
O01	Hs.154210	NM_001400	S1PR1	Sphingosine-1-phosphate receptor 1
O02	Hs.655405	NM_004230	S1PR2	Sphingosine-1-phosphate receptor 2
O03	Hs.585118	NM_005226	S1PR3	Sphingosine-1-phosphate receptor 3
O04	Hs.662006	NM_003775	S1PR4	Sphingosine-1-phosphate receptor 4
O05	Hs.501561	NM_030760	S1PR5	Sphingosine-1-phosphate receptor 5
O06	Hs.42091	NM_002980	SCTR	Secretin receptor
O07	Hs.522087	NM_005866	SIGMAR1	Sigma non-opioid intracellular receptor 1
O08	Hs.437846	NM_005631	SMO	Smoothed, frizzled family receptor
O09	Hs.591915	NM_052918	SORCS1	Sortilin-related VPS10 domain containing receptor 1
O10	Hs.479099	NM_020777	SORCS2	Sortilin-related VPS10 domain containing receptor 2
O11	Hs.671950	NM_014978	SORCS3	Sortilin-related VPS10 domain containing receptor 3
O12	Hs.248160	NM_001049	SSTR1	Somatostatin receptor 1
O13	Hs.514451	NM_001050	SSTR2	Somatostatin receptor 2
O14	Hs.225995	NM_001051	SSTR3	Somatostatin receptor 3
O15	Hs.673846	NM_001052	SSTR4	Somatostatin receptor 4
O16	Hs.449840	NM_001053	SSTR5	Somatostatin receptor 5
O17	Hs.279575	NM_033050	SUCNR1	Succinate receptor 1
O18	Hs.375030	NM_138327	TAAR1	Trace amine associated receptor 1
O19	Hs.272382	NM_014626	TAAR2	Trace amine associated receptor 2
O20	Hs.248198	NM_003967	TAAR5	Trace amine associated receptor 5
O21	Hs.434196	NM_175067	TAAR6	Trace amine associated receptor 6
O22	Hs.434116	NM_175057	TAAR9	Trace amine associated receptor 9 (gene/pseudogene)
O23	Hs.633301	NM_001058	TACR1	Tachykinin receptor 1
O24	Hs.88372	NM_001057	TACR2	Tachykinin receptor 2
P01	Hs.942	NM_001059	TACR3	Tachykinin receptor 3
P02	Hs.442530	NM_001060	TBXA2R	Thromboxane A2 receptor
P03	Hs.656790	NM_032027	TM2D1	TM2 domain containing 1
P04	Hs.3022	NM_003301	TRHR	Thyrotropin-releasing hormone receptor
P05	Hs.160411	NM_000369	TSHR	Thyroid stimulating hormone receptor
P06	Hs.192720	NM_018949	UTS2R	Urotensin 2 receptor
P07	Hs.348500	NM_004624	VIPR1	Vasoactive intestinal peptide receptor 1
P08	Hs.585052	NM_003382	VIPR2	Vasoactive intestinal peptide receptor 2
P09	Hs.248116	NM_005283	XCR1	Chemokine (C motif) receptor 1
P10	Hs.227656	NM_004736	XPR1	Xenotropic and polytropic retrovirus receptor 1
P11	Hs.520640	NM_001101	ACTB	Actin, beta
P12	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
P13	Hs.592355	NM_002046	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
P14	Hs.412707	NM_000194	HPRT1	Hypoxanthine phosphoribosyltransferase 1
P15	Hs.546285	NM_001002	RPLP0	Ribosomal protein, large, P0
P16	N/A	SA_00105	HGDC	Human Genomic DNA Contamination
P17	N/A	SA_00105	HGDC	Human Genomic DNA Contamination
P18	N/A	SA_00105	HGDC	Human Genomic DNA Contamination
P19	N/A	SA_00104	RTC	Reverse Transcription Control
P20	N/A	SA_00104	RTC	Reverse Transcription Control
P21	N/A	SA_00104	RTC	Reverse Transcription Control
P22	N/A	SA_00103	PPC	Positive PCR Control
P23	N/A	SA_00103	PPC	Positive PCR Control
P24	N/A	SA_00103	PPC	Positive PCR Control

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