

RT² Profiler PCR Array (384-Well Format)

Rat G Protein Coupled Receptors 384HT

Cat. no. 330231 PARN-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 Rat 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 offtarget 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	Rn.88408	NM_133511	Adcyap1r1	Adenylate cyclase activating polypeptide 1 receptor 1
A02	Rn.32078	NM_017155	Adora1	Adenosine A1 receptor
A03	Rn.11180	NM_053294	Adora2a	Adenosine A2a receptor
A04	Rn.89544	NM_017161	Adora2b	Adenosine A2B receptor
A05	Rn.10457	NM_012896	Adora3	Adenosine A3 receptor
A06	Rn.9991	NM_017191	Adra1a	Adrenergic, alpha-1A-, receptor
A07	Rn.10032	NM_016991	Adra1b	Adrenergic, alpha-1B-, receptor
A08	Rn.11314	NM_024483	Adra1d	Adrenergic, alpha-1D-, receptor
A09	Rn.170171	NM_012739	Adra2a	Adrenergic, alpha-2A-, receptor
A10	Rn.10296	NM_138505	Adra2b	Adrenergic, alpha-2B-, receptor
A11	Rn.10297	NM_138506	Adra2c	Adrenergic, alpha-2C-, receptor
A12	Rn.87064	NM_012701	Adrb1	Adrenergic, beta-1-, receptor
A13	Rn.10206	NM_012492	Adrb2	Adrenergic, beta-2-, receptor, surface
A14	Rn.10100	NM_013108	Adrb3	Adrenergic, beta-3-, receptor
A15	Rn.9814	NM_030985	Agtr1a	Angiotensin II receptor, type 1a
A16	Rn.9815	NM_031009	Agtr1b	Angiotensin II receptor, type 1b
A17	Rn.162367	NM_012494	Agtr2	Angiotensin II receptor, type 2
A18	Rn.7965	NM_031349	Aplnr	Apelin receptor
A19	Rn.32282	NM_053019	Avpr1a	Arginine vasopressin receptor 1A
A20	Rn.10096	NM_017205	Avpr1b	Arginine vasopressin receptor 1B
A21	Rn.209041	NM_019136	Avpr2	Arginine vasopressin receptor 2
A22	Rn.103502	XM_343260	Bai1	Brain-specific angiogenesis inhibitor 1
A23	Rn.15364	NM_001107914	Bai2	Brain-specific angiogenesis inhibitor 2
A24	Rn.204758	NM_001106898	Bai3	Brain-specific angiogenesis inhibitor 3
B01	Rn.10762	NM_030851	Bdkrb1	Bradykinin receptor B1
B02	Rn.9845	NM_173100	Bdkrb2	Bradykinin receptor B2
B03	Rn.86415	NM_152845	Brs3	Bombesin-like receptor 3
B04	Rn.9772	NM_032060	C3ar1	Complement component 3a receptor 1
B05	Rn.10680	NM_053619	C5ar1	Complement component 5a receptor 1
B06	Rn.10062	NM_053816	Calcr	Calcitonin receptor
B07	Rn.11202	NM_012717	Calclrl	Calcitonin receptor-like
B08	Rn.10019	NM_016996	Casr	Calcium-sensing receptor
B09	Rn.10771	NM_078621	Ccbp2	Chemokine binding protein 2
B10	Rn.10184	NM_012688	Cckar	Cholecystokinin A receptor
B11	Rn.90997	NM_013165	Cckbr	Cholecystokinin B receptor
B12	Rn.34673	NM_020542	Ccr1	Chemokine (C-C motif) receptor 1
B13	Rn.49607	NM_001108836	Ccr10	Chemokine (C-C motif) receptor 10
B14	Rn.218537	NM_001106872	Ccr11	Chemokine (C-C motif) receptor 1-like 1
B15	Rn.211983	NM_021866	Ccr2	Chemokine (C-C motif) receptor 2
B16	Rn.9890	NM_053958	Ccr3	Chemokine (C-C motif) receptor 3
B17	Rn.81076	NM_133532	Ccr4	Chemokine (C-C motif) receptor 4
B18	Rn.10736	NM_053960	Ccr5	Chemokine (C-C motif) receptor 5
B19	Rn.161767	NM_001013145	Ccr6	Chemokine (C-C motif) receptor 6
B20	Rn.16815	NM_199489	Ccr7	Chemokine (C-C motif) receptor 7
B21	N/A	XM_236704	Ccr8	Chemokine (C-C motif) receptor 8
B22	Rn.91140	NM_172329	Ccr9	Chemokine (C-C motif) receptor 9
B23	Rn.169598	XM_001061617	Ccr11	Chemokine (C-C motif) receptor-like 1
B24	Rn.67232	NM_001108191	Ccr12	Chemokine (C-C motif) receptor-like 2
C01	Rn.107655	NM_001012164	Cd97	CD97 molecule
				Cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog,

Position	UniGene	GenBank	Symbol	Description
C02	Rn.166656	XM_001070474	Celsr1	Drosophila)
C03	Rn.2912	XM_001070611	Celsr2	Cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)
C04	Rn.14558	NM_031320	Celsr3	Cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila)
C05	Rn.119395	NM_080773	Chrm1	Cholinergic receptor, muscarinic 1
C06	Rn.10752	NM_031016	Chrm2	Cholinergic receptor, muscarinic 2
C07	Rn.87735	NM_012527	Chrm3	Cholinergic receptor, muscarinic 3
C08	Rn.10676	NM_031547	Chrm4	Cholinergic receptor, muscarinic 4
C09	Rn.44293	NM_017362	Chrm5	Cholinergic receptor, muscarinic 5
C10	Rn.44465	NM_022218	Cmklr1	Chemokine-like receptor 1
C11	Rn.89774	NM_012784	Cnr1	Cannabinoid receptor 1 (brain)
C12	Rn.48776	NM_020543	Cnr2	Cannabinoid receptor 2 (macrophage)
C13	Rn.9449	NM_053670	Crcp	CGRP receptor component
C14	Rn.10499	NM_030999	Crhr1	Corticotropin releasing hormone receptor 1
C15	Rn.10023	NM_022714	Crhr2	Corticotropin releasing hormone receptor 2
C16	Rn.10482	NM_133534	Cx3cr1	Chemokine (C-X3-C motif) receptor 1
C17	Rn.90347	NM_017183	Cxcr2	Chemokine (C-X-C motif) receptor 2
C18	Rn.24787	NM_053415	Cxcr3	Chemokine (C-X-C motif) receptor 3
C19	Rn.44431	NM_022205	Cxcr4	Chemokine (C-X-C motif) receptor 4
C20	Rn.127121	NM_053303	Cxcr5	Chemokine (C-X-C motif) receptor 5
C21	Rn.217921	NM_001102587	Cxcr6	Chemokine receptor CXCR6
C22	Rn.12959	NM_053352	Cxcr7	Chemokine (C-X-C motif) receptor 7
C23	Rn.74253	NM_053641	Cysltr1	Cysteinyl leukotriene receptor 1
C24	Rn.74252	NM_133413	Cysltr2	Cysteinyl leukotriene receptor 2
D01	Rn.215682	NM_001004448	Dear	Dual endothelin 1, angiotensin II receptor
D02	Rn.24039	NM_012546	Drd1a	Dopamine receptor D1A
D03	Rn.87299	NM_012547	Drd2	Dopamine receptor D2
D04	Rn.10356	NM_017140	Drd3	Dopamine receptor D3
D05	Rn.10159	NM_012944	Drd4	Dopamine receptor D4
D06	Rn.138110	NM_012768	Drd5	Dopamine receptor D5
D07	Rn.10915	NM_012550	Ednra	Endothelin receptor type A
D08	Rn.11412	NM_017333	Ednrb	Endothelin receptor type B
D09	Rn.8731	NM_022294	Elld1	EGF, latrophilin and seven transmembrane domain containing 1
D10	Rn.205884	NM_001007557	Emr1	EGF-like module containing, mucin-like, hormone receptor-like 1
D11	Rn.162355	NM_001007558	Emr4	EGF-like module containing, mucin-like, hormone receptor-like sequence 4
D12	Rn.2609	NM_012950	F2r	Coagulation factor II (thrombin) receptor
D13	Rn.10543	NM_053897	F2rl1	Coagulation factor II (thrombin) receptor-like 1
D14	Rn.206020	NM_053313	F2rl2	Coagulation factor II (thrombin) receptor-like 2
D15	Rn.81079	NM_053808	F2rl3	Coagulation factor II (thrombin) receptor-like 3
D16	Rn.86438	NM_153304	Ffar1	Free fatty acid receptor 1
D17	Rn.17909	NM_001005877	Ffar2	Free fatty acid receptor 2
D18	Rn.122324	NM_001108912	Ffar3	Free fatty acid receptor 3
D19	Rn.218643	NM_001106216	Fpr1	Formyl peptide receptor 1
D20	Rn.162843	NM_199237	Fshr	Follicle stimulating hormone receptor
D21	Rn.6575	NM_021266	Fzd1	Frizzled homolog 1 (Drosophila)
D22	Rn.92324	NM_172035	Fzd2	Frizzled homolog 2 (Drosophila)
D23	Rn.178695	NM_153474	Fzd3	Frizzled homolog 3 (Drosophila)
D24	Rn.48736	NM_022623	Fzd4	Frizzled homolog 4 (Drosophila)
E01	Rn.24792	NM_173838	Fzd5	Frizzled homolog 5 (Drosophila)
E02	Rn.2740	NM_001130536	Fzd6	Frizzled homolog 6 (Drosophila)
E03	Rn.1806	XM_237191	Fzd7	Frizzled homolog 7 (Drosophila)
E04	Rn.199029	NM_001044251	Fzd8	Frizzled homolog 8 (Drosophila)
E05	Rn.96335	NM_153305	Fzd9	Frizzled homolog 9 (Drosophila)
E06	Rn.30059	NM_031028	Gabbr1	Gamma-aminobutyric acid (GABA) B receptor 1
E07	Rn.162814	NM_031802	Gabbr2	Gamma-aminobutyric acid (GABA) B receptor 2
E08	Rn.10213	NM_012958	Galr1	Galanin receptor 1
E09	Rn.9789	NM_019172	Galr2	Galanin receptor 2
E10	Rn.30069	NM_019173	Galr3	Galanin receptor 3
E11	Rn.11225	NM_172092	Gcgr	Glucagon receptor
E12	Rn.10936	NM_012850	Ghrhr	Growth hormone releasing hormone receptor
E13	Rn.74241	NM_032075	Ghsr	Growth hormone secretagogue receptor
E14	Rn.9676	NM_012714	Gipr	Gastric inhibitory polypeptide receptor
E15	Rn.11408	NM_012728	Glp1r	Glucagon-like peptide 1 receptor
E16	Rn.163105	NM_021848	Glp2r	Glucagon-like peptide 2 receptor
E17	Rn.112595	NM_031038	Gnrhr	Gonadotropin releasing hormone receptor
E18	Rn.41687	NM_177936	Gpbar1	G protein-coupled bile acid receptor 1
E19	Rn.9806	NM_133573	Gper	G protein-coupled estrogen receptor 1
E20	Rn.81208	NM_012961	Gpr1	G protein-coupled receptor 1
E21	Rn.105358	NM_001108258	Gpr101	G protein-coupled receptor 101
E22	Rn.66272	NM_001106894	Gpr110	G protein-coupled receptor 110

Position	UniGene	GenBank	Symbol	Description
E23	Rn.218690	NM_001106712	Gpr113	G protein-coupled receptor 113
E24	Rn.148568	NM_001107410	Gpr114	G protein-coupled receptor 114
F01	Rn.25073	NM_139110	Gpr116	G protein-coupled receptor 116
F02	Rn.96430	NM_181770	Gpr119	G protein-coupled receptor 119
F03	Rn.88417	NM_030831	Gpr12	G protein-coupled receptor 12
F04	Rn.82501	NM_001047088	Gpr120	G protein-coupled receptor 120
F05	Rn.169427	NM_001107559	Gpr123	G protein-coupled receptor 123
F06	Rn.101393	XM_240449	Gpr124	G protein-coupled receptor 124
F07	Rn.217999	NM_001107218	Gpr125	G protein-coupled receptor 125
F08	Rn.100820	XM_218313	Gpr126	G protein-coupled receptor 126
F09	Rn.7765	NM_001107098	Gpr128	G protein-coupled receptor 128
F10	Rn.145095	XM_234574	Gpr132	G protein-coupled receptor 132
F11	Rn.56673	NM_181771	Gpr135	G protein-coupled receptor 135
F12	Rn.215835	NM_001024241	Gpr139	G protein-coupled receptor 139
F13	Rn.153735	NM_181767	Gpr141	G protein-coupled receptor 141
F14	Rn.141649	NM_001106958	Gpr143	G protein-coupled receptor 143
F15	Rn.96392	NM_138891	Gpr149	G protein-coupled receptor 149
F16	Rn.57350	NM_181633	Gpr151	G protein-coupled receptor 151
F17	Rn.198305	NM_001034855	Gpr153	G protein-coupled receptor 153
F18	Rn.213724	NM_153295	Gpr156	G protein-coupled receptor 156
F19	Rn.126639	NM_001012107	Gpr157	G protein-coupled receptor 157
F20	Rn.162787	NM_001108646	Gpr162	G protein-coupled receptor 162
F21	Rn.212749	NM_001071777	Gpr17	G protein-coupled receptor 17
F22	Rn.53986	NM_022255	Gpr173	G-protein coupled receptor 173
F23	Rn.44656	XM_342493	Gpr176	G protein-coupled receptor 176
F24	Rn.205907	NM_001079710	Gpr18	G protein-coupled receptor 18
G01	Rn.87119	NM_053302	Gpr182	G protein-coupled receptor 182
G02	Rn.99370	NM_080579	Gpr19	G protein-coupled receptor 19
G03	Rn.138120	NM_022216	Gpr20	G protein-coupled receptor 20
G04	Rn.14944	NM_001109554	Gpr21	G protein-coupled receptor 21
G05	Rn.59212	NM_001106722	Gpr22	G protein-coupled receptor 22
G06	Rn.48779	NM_138841	Gpr26	G protein-coupled receptor 26
G07	Rn.54454	NM_023099	Gpr27	G protein-coupled receptor 27
G08	Rn.83629	NM_153727	Gpr3	G protein-coupled receptor 3
G09	Rn.152676	NM_001031823	Gpr33	G protein-coupled receptor 33
G10	Rn.154784	NM_001037359	Gpr35	G protein-coupled receptor 35
G11	Rn.28035	NM_057201	Gpr37	G protein-coupled receptor 37
G12	Rn.144679	NM_145784	Gpr37l1	G protein-coupled receptor 37-like 1
G13	Rn.217796	NM_001114392	Gpr39	G protein-coupled receptor 39
G14	Rn.23364	NM_001025680	Gpr4	G protein-coupled receptor 4
G15	Rn.198542	NM_001012070	Gpr44	G protein-coupled receptor 44
G16	Rn.92385	XM_346374	Gpr50	G protein-coupled receptor 50
G17	Rn.1677	NM_152242	Gpr56	G protein-coupled receptor 56
G18	Rn.32092	NM_031806	Gpr6	G protein-coupled receptor 6
G19	Rn.49317	NM_001107715	Gpr61	G protein-coupled receptor 61
G20	Rn.218597	NM_001106640	Gpr63	G protein-coupled receptor 63
G21	Rn.57243	NM_181366	Gpr64	G protein-coupled receptor 64
G22	Rn.198752	NM_001106751	Gpr65	G-protein coupled receptor 65
G23	Rn.16653	NM_001108049	Gpr68	G protein-coupled receptor 68
G24	Rn.127117	NM_001003710	Gpr77	G protein-coupled receptor 77
H01	Rn.198299	NM_001145334	Gpr81	G protein-coupled receptor 81
H02	Rn.63075	NM_080411	Gpr83	G protein-coupled receptor 83
H03	Rn.171137	NM_001109509	Gpr84	G protein-coupled receptor 84
H04	Rn.53985	NM_022254	Gpr85	G protein-coupled receptor 85
H05	Rn.218426	NM_001107677	Gpr87	G protein-coupled receptor 87
H06	Rn.59513	NM_031696	Gpr88	G-protein coupled receptor 88
H07	Rn.218842	XM_001063571	Gpr98	G protein-coupled receptor 98
H08	Rn.23566	NM_001079890	Gprc5a	G protein-coupled receptor, family C, group 5, member A
H09	Rn.47330	NM_001106304	Gprc5b	G protein-coupled receptor, family C, group 5, member B
H10	Rn.3658	XM_213518	Gprc5c	G protein-coupled receptor, family C, group 5, member C
H11	Rn.140864	XM_228164	Gprc6a	G protein-coupled receptor, family C, group 6, member A
H12	Rn.92477	NM_181373	Grik3	Glutamate receptor, ionotropic, kainate 3
H13	Rn.87787	NM_017011	Grm1	Glutamate receptor, metabotropic 1
H14	Rn.9681	NM_001105711	Grm2	Glutamate receptor, metabotropic 2
H15	Rn.41715	NM_001105712	Grm3	Glutamate receptor, metabotropic 3
H16	Rn.89046	NM_022666	Grm4	Glutamate receptor, metabotropic 4
H17	Rn.29972	NM_017012	Grm5	Glutamate receptor, metabotropic 5
H18	Rn.44615	NM_022920	Grm6	Glutamate receptor, metabotropic 6
H19	Rn.10409	NM_031040	Grm7	Glutamate receptor, metabotropic 7
H20	Rn.44420	NM_022202	Grm8	Glutamate receptor, metabotropic 8
H21	Rn.10316	NM_012706	Grpr	Gastrin releasing peptide receptor

Position	UniGene	GenBank	Symbol	Description
H22	Rn.88262	NM_013064	Hcrr1	Hypocretin (orexin) receptor 1
H23	Rn.9893	NM_013074	Hcrr2	Hypocretin (orexin) receptor 2
H24	Rn.81032	NM_017018	Hrh1	Histamine receptor H 1
I01	Rn.138113	NM_012965	Hrh2	Histamine receptor H 2
I02	Rn.7617	NM_053506	Hrh3	Histamine receptor H3
I03	Rn.162272	NM_131909	Hrh4	Histamine receptor H4
I04	Rn.44486	NM_012585	Htr1a	5-hydroxytryptamine (serotonin) receptor 1A
I05	Rn.138109	NM_022225	Htr1b	5-hydroxytryptamine (serotonin) receptor 1B
I06	Rn.34834	NM_012852	Htr1d	5-Hydroxytryptamine (serotonin) receptor 1D
I07	Rn.44301	NM_021857	Htr1f	5-hydroxytryptamine (serotonin) receptor 1F
I08	Rn.10294	NM_017254	Htr2a	5-hydroxytryptamine (serotonin) receptor 2A
I09	Rn.10425	NM_017250	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B
I10	Rn.9935	NM_012765	Htr2c	5-hydroxytryptamine (serotonin) receptor 2C
I11	Rn.55109	NM_024394	Htr3a	5-hydroxytryptamine (serotonin) receptor 3a
I12	Rn.87106	NM_022189	Htr3b	5-hydroxytryptamine (serotonin) receptor 3b
I13	Rn.10094	NM_012853	Htr4	5-hydroxytryptamine (serotonin) receptor 4
I14	Rn.10569	NM_013148	Htr5a	5-hydroxytryptamine (serotonin) receptor 5A
I15	Rn.202942	NM_024395	Htr5b	5-hydroxytryptamine (serotonin) receptor 5B
I16	Rn.10552	NM_024365	Htr6	5-hydroxytryptamine (serotonin) receptor 6
I17	Rn.87132	NM_022938	Htr7	5-hydroxytryptamine (serotonin) receptor 7
I18	Rn.270	NM_012756	Igf2r	Insulin-like growth factor 2 receptor
I19	Rn.138115	NM_019310	Il8ra	Interleukin 8 receptor, alpha
I20	Rn.48681	NM_023992	Kiss1r	KISS1 receptor
I21	Rn.9891	NM_012596	LepR	Leptin receptor
I22	Rn.162671	NM_173328	Lgr4	Leucine-rich repeat-containing G protein-coupled receptor 4
I23	Rn.214063	NM_001106784	Lgr5	Leucine rich repeat containing G protein coupled receptor 5
I24	Rn.11216	NM_012978	Lhcgr	Luteinizing hormone/choriogonadotropin receptor
J01	Rn.11200	NM_053936	Lpar1	Lysophosphatidic acid receptor 1
J02	Rn.14855	NM_001109109	Lpar2	Lysophosphatidic acid receptor 2
J03	Rn.64507	NM_023969	Lpar3	Lysophosphatidic acid receptor 3
J04	Rn.105026	NM_001106940	Lpar4	Lysophosphatidic acid receptor 4
J05	N/A	XM_575667	Lpar5	Lysophosphatidic acid receptor 5
J06	Rn.10776	NM_022962	Lphn1	Latrophilin 1
J07	Rn.12089	NM_134408	Lphn2	Latrophilin 2
J08	Rn.203386	NM_130822	Lphn3	Latrophilin 3
J09	Rn.41003	NM_021656	Ltb4r	Leukotriene B4 receptor
J10	Rn.74251	NM_053640	Ltb4r2	Leukotriene B4 receptor 2
J11	Rn.21943	NM_012757	Mas1	MAS1 oncogene
J12	N/A	XM_226554	Mc1r	Melanocortin 1 receptor
J13	Rn.92460	NM_001100491	Mc2r	Melanocortin 2 receptor
J14	Rn.215838	NM_001025270	Mc3r	Melanocortin 3 receptor
J15	Rn.10620	NM_013099	Mc4r	Melanocortin 4 receptor
J16	Rn.9673	NM_013182	Mc5r	Melanocortin 5 receptor
J17	Rn.10822	NM_031758	Mchr1	Melanin-concentrating hormone receptor 1
J18	Rn.141967	NM_001002283	Mrgprb13	MAS-related GPR, member B13
J19	Rn.141966	XM_001080876	Mrgprb2	MAS-related GPR, member B2
J20	Rn.155107	NM_001002287	Mrgprb4	MAS-related GPR, member B4
J21	Rn.141968	NM_001002284	Mrgprb5	MAS-related G protein-coupled receptor, member B5
J22	Rn.162482	NM_001001506	Mrgprd	MAS-related GPR, member D
J23	Rn.189891	NM_001002288	Mrgpre	MAS-related GPR, member E
J24	Rn.9848	NM_153722	Mrgprf	MAS-related GPR, member F
K01	Rn.112764	NM_203470	Mrgprg	MAS-related GPR, member G
K02	Rn.142013	NM_001002281	Mrgprh	MAS-related GPR, member H
K03	Rn.215681	NM_001002280	Mrgprx2	MAS-related GPR, member X2
K04	Rn.81069	NM_145787	Mrgprx3	MAS-related GPR, member X3
K05	Rn.92357	NM_053676	Mtnr1a	Melatonin receptor 1A
K06	Rn.83599	NM_001100641	Mtnr1b	Melatonin receptor 1B
K07	Rn.214478	NM_181476	Niacr1	Niacin receptor 1
K08	Rn.89709	NM_012799	Nmbr	Neuromedin B receptor
K09	Rn.54457	NM_023100	Nmur1	Neuromedin U receptor 1
K10	Rn.160579	NM_022275	Nmur2	Neuromedin U receptor 2
K11	Rn.140960	NM_001014784	Npbwr1	Neuropeptides B/W receptor 1
K12	Rn.64483	NM_022291	Npffr1	Neuropeptide FF receptor 1
K13	Rn.64524	NM_023980	Npffr2	Neuropeptide FF receptor 2
K14	Rn.10463	NM_012613	Npr1	Natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
K15	Rn.32984	NM_053838	Npr2	Natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B)
K16	Rn.11297	NM_012868	Npr3	Natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
K17	Rn.101463	NM_001106808	Npsr1	Neuropeptide S receptor 1

Position	UniGene	GenBank	Symbol	Description
K18	Rn.11642	NM_001113357	Npy1r	Neuropeptide Y receptor Y1
K19	Rn.64505	NM_023968	Npy2r	Neuropeptide Y receptor Y2
K20	Rn.10532	NM_012869	Npy5r	Neuropeptide Y receptor Y5
K21	Rn.200149	NM_001108967	Ntsr1	Neurotensin receptor 1
K22	Rn.127792	NM_022695	Ntsr2	Neurotensin receptor 2
K23	Rn.15740	NM_053340	Ogfr	Opioid growth factor receptor
K24	Rn.141954	NM_001000540	Olr12	Olfactory receptor 12
L01	Rn.143556	NM_001000818	Olr1201	Olfactory receptor 1201
L02	Rn.215178	NM_001001285	Olr131	Olfactory receptor 131
L03	Rn.141863	NM_001001273	Olr132	Olfactory receptor 132
L04	Rn.143472	NM_001000599	Olr1328	Olfactory receptor 1328
L05	Rn.141852	NM_001000165	Olr148	Olfactory receptor 148
L06	Rn.142077	NM_001000035	Olr1513	Olfactory receptor 1513
L07	Rn.142564	NM_001000537	Olr1667	Olfactory receptor 1667
L08	Rn.142660	NM_001001426	Olr1744	Olfactory receptor 1744
L09	Rn.142657	NM_001001429	Olr1749	Olfactory receptor 1749
L10	Rn.142656	NM_212493	Olr1750	Olfactory receptor 1750
L11	Rn.141798	NM_001000199	Olr217	Olfactory receptor 217
L12	Rn.144601	NM_031710	Olr226	Olfactory receptor 226
L13	Rn.141790	NM_001000203	Olr227	Olfactory receptor 227
L14	Rn.138135	NM_001000206	Olr231	Olfactory receptor 231
L15	Rn.143016	NM_001000393	Olr425	Olfactory receptor 425
L16	Rn.142887	NM_001000329	Olr588	Olfactory receptor 588
L17	Rn.12541	NM_173293	Olr59	Olfactory receptor 59
L18	Rn.129398	NM_001000542	Olr63	Olfactory receptor 63
L19	Rn.142785	NM_001000922	Olr735	Olfactory receptor 735
L20	Rn.81056	NM_053548	Opn1mw	Opsin 1 (cone pigments), medium-wave-sensitive
L21	Rn.10549	NM_031015	Opn1sw	Opsin 1 (cone pigments), short-wave-sensitive
L22	Rn.54303	NM_138860	Opn4	Opsin 4
L23	Rn.10310	NM_012617	Oprd1	Opioid receptor, delta 1
L24	Rn.89571	NM_017167	Oprk1	Opioid receptor, kappa 1
M01	Rn.9762	NM_031569	Oprl1	Opiate receptor-like 1
M02	Rn.10118	NM_013071	Oprm1	Opioid receptor, mu 1
M03	Rn.115325	NM_207588	Oxgr1	Oxoglutarate (alpha-ketoglutarate) receptor 1
M04	Rn.6841	NM_012871	Oxtr	Oxytocin receptor
M05	Rn.10217	NM_012800	P2ry1	Purinergic receptor P2Y, G-protein coupled, 1
M06	Rn.64592	NM_022800	P2ry12	Purinergic receptor P2Y, G-protein coupled, 12
M07	Rn.209780	NM_001002853	P2ry13	Purinergic receptor P2Y, G-protein coupled, 13
M08	Rn.87082	NM_133577	P2ry14	Purinergic receptor P2Y, G-protein coupled, 14
M09	Rn.11102	NM_017255	P2ry2	Purinergic receptor P2Y, G-protein coupled, 2
M10	Rn.30068	NM_031680	P2ry4	Pyrimidinergic receptor P2Y, G-protein coupled, 4
M11	Rn.10671	NM_057124	P2ry6	Pyrimidinergic receptor P2Y, G-protein coupled, 6
M12	Rn.98311	NM_031525	Pdgfrb	Platelet derived growth factor receptor, beta polypeptide
M13	Rn.217523	NM_001011921	Pdgfrl	Platelet-derived growth factor receptor-like
M14	Rn.218317	NM_001106583	Pgr15l	G protein-coupled receptor 15-like
M15	Rn.10574	NM_031581	Ppyr1	Pancreatic polypeptide receptor 1
M16	Rn.138127	NM_139193	Prlhr	Prolactin releasing hormone receptor
M17	Rn.82759	NM_138977	Prokr1	Prokineticin receptor 1
M18	Rn.82760	NM_138978	Prokr2	Prokineticin receptor 2
M19	Rn.10137	NM_053321	Ptafr	Platelet-activating factor receptor
M20	Rn.220703	NM_001135164	Ptgd	Prostaglandin D receptor
M21	Rn.11423	NM_013100	Ptger1	Prostaglandin E receptor 1 (subtype EP1)
M22	Rn.10264	NM_031088	Ptger2	Prostaglandin E receptor 2 (subtype EP2)
M23	Rn.10361	NM_012704	Ptger3	Prostaglandin E receptor 3 (subtype EP3)
M24	Rn.16062	NM_032076	Ptger4	Prostaglandin E receptor 4 (subtype EP4)
N01	Rn.97602	NM_013115	Ptgfr	Prostaglandin F receptor
N02	Rn.100903	NM_001077644	Ptgir	Prostaglandin I2 (prostacyclin) receptor (IP)
N03	Rn.48025	NM_020073	Pth1r	Parathyroid hormone 1 receptor
N04	Rn.10601	NM_031089	Pth2r	Parathyroid hormone 2 receptor
N05	Rn.162584	NM_198199	Qrfpr	Pyroglutamylated RFamide peptide receptor
N06	Rn.26828	NM_001107299	Rgr	Retinal G protein coupled receptor
N07	Rn.92530	NM_033441	Rho	Rhodopsin
N08	Rn.211719	NM_001107726	Rrh	Retinal pigment epithelium derived rhodopsin homolog
N09	Rn.109230	NM_201417	Rxfp1	Relaxin/insulin-like family peptide receptor 1
N10	Rn.217421	NM_001012475	Rxfp2	Relaxin/insulin-like family peptide receptor 2
N11	Rn.127658	NM_001008310	Rxfp3	Relaxin/insulin-like family peptide receptor 3
N12	Rn.109455	NM_017301	S1pr1	Sphingosine-1-phosphate receptor 1
N13	Rn.2491	NM_017192	S1pr2	Sphingosine-1-phosphate receptor 2
N14	Rn.108119	NM_225216	S1pr3	Sphingosine-1-phosphate receptor 3
N15	Rn.106075	NM_001108075	S1pr4	Sphingosine-1-phosphate receptor 4
N16	Rn.45601	NM_021775	S1pr5	Sphingosine-1-phosphate receptor 5

Position	UniGene	GenBank	Symbol	Description
N17	Rn.32256	NM_031115	Scr	Secretin receptor
N18	Rn.1129	NM_030996	Sigmar1	Sigma non-opioid intracellular receptor 1
N19	Rn.44429	NM_012807	Smo	Smoothened homolog (Drosophila)
N20	Rn.41133	NM_001107225	Sorcs2	Sortilin-related VPS10 domain containing receptor 2
N21	Rn.46999	NM_001106367	Sorcs3	Sortilin-related VPS10 domain containing receptor 3
N22	Rn.42915	NM_012719	Sstr1	Somatostatin receptor 1
N23	Rn.9929	NM_019348	Sstr2	Somatostatin receptor 2
N24	Rn.10458	NM_133522	Sstr3	Somatostatin receptor 3
O01	Rn.9936	NM_013036	Sstr4	Somatostatin receptor 4
O02	Rn.91342	NM_012882	Sstr5	Somatostatin receptor 5
O03	Rn.124512	NM_001001518	Sucnr1	Succinate receptor 1
O04	Rn.81209	NM_134328	Taar1	Trace-amine-associated receptor 1
O05	Rn.162403	NM_001008512	Taar2	Trace amine-associated receptor 2
O06	Rn.142016	NM_001009532	Taar3	Trace amine-associated receptor 3
O07	Rn.138138	NM_175583	Taar4	Trace amine-associated receptor 4
O08	Rn.140571	NM_001009650	Taar5	Trace amine-associated receptor 5
O09	Rn.138139	NM_175584	Taar6	Trace amine-associated receptor 6
O10	Rn.138141	NM_175586	Taar7b	Trace amine-associated receptor 7b
O11	Rn.138143	NM_175588	Taar7g	Trace amine-associated receptor 7g
O12	Rn.138142	NM_175587	Taar7h	Trace amine-associated receptor 7h
O13	Rn.138160	NM_175599	Taar8a	Trace amine-associated receptor 8a
O14	Rn.138162	NM_175602	Taar9	Trace amine-associated receptor 9
O15	Rn.89609	NM_012667	Tacr1	Tachykinin receptor 1
O16	Rn.202846	NM_080768	Tacr2	Tachykinin receptor 2
O17	Rn.9702	NM_017053	Tacr3	Tachykinin receptor 3
O18	Rn.92309	NM_053305	Tas1r1	Taste receptor, type 1, member 1
O19	Rn.203318	XM_001071722	Tas1r2	Taste receptor, type 1, member 2
O20	Rn.81025	NM_130818	Tas1r3	Taste receptor, type 1, member 3
O21	Rn.154318	NM_001024686	Tas2r108	Taste receptor, type 2, member 108
O22	Rn.48785	NM_023996	Tas2r114	Taste receptor, type 2, member 114
O23	Rn.48783	NM_023994	Tas2r118	Taste receptor, type 2, member 118
O24	Rn.48792	NM_173336	Tas2r123	Taste receptor, type 2, member 123
P01	Rn.44614	NM_017054	Tbxa2r	Thromboxane A2 receptor
P02	Rn.198278	NM_001108670	Tm2d1	TM2 domain containing 1
P03	Rn.9962	NM_013047	Trhr	Thyrotropin releasing hormone receptor
P04	Rn.30031	NM_181364	Trhr2	Thyrotropin releasing hormone receptor 2
P05	Rn.87913	NM_012888	Tshr	Thyroid stimulating hormone receptor
P06	Rn.44230	NM_020537	Uts2r	Urotensin 2 receptor
P07	Rn.9973	NM_012685	Vipr1	Vasoactive intestinal peptide receptor 1
P08	Rn.10011	NM_017238	Vipr2	Vasoactive intestinal peptide receptor 2
P09	Rn.127077	NM_001106871	Xcr1	Chemokine (C motif) receptor 1
P10	Rn.138575	NM_001105992	Xpr1	Xenotropic and polytropic retrovirus receptor 1
P11	Rn.94978	NM_031144	Actb	Actin, beta
P12	Rn.1868	NM_012512	B2m	Beta-2 microglobulin
P13	Rn.47	NM_012583	Hprt1	Hypoxanthine phosphoribosyltransferase 1
P14	Rn.107896	NM_017025	Ldha	Lactate dehydrogenase A
P15	Rn.973	NM_001007604	Rplp1	Ribosomal protein, large, P1
P16	N/A	U26919	RGDC	Rat Genomic DNA Contamination
P17	N/A	U26919	RGDC	Rat Genomic DNA Contamination
P18	N/A	U26919	RGDC	Rat 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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