

RT² Profiler PCR Array (384-Well Format)

Mouse G Protein Coupled Receptors 384HT

Cat. no. 330231 PAMM-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 Mouse 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 | Mm.44245 | NM_007407 | Adcyap1r1 | Adenylate cyclase activating polypeptide 1 receptor 1 |
| A02 | Mm.298908 | NM_001008533 | Adora1 | Adenosine A1 receptor |
| A03 | Mm.333734 | NM_009630 | Adora2a | Adenosine A2a receptor |
| A04 | Mm.40740 | NM_007413 | Adora2b | Adenosine A2b receptor |
| A05 | Mm.235024 | NM_009631 | Adora3 | Adenosine A3 receptor |
| A06 | Mm.57064 | NM_013461 | Adra1a | Adrenergic receptor, alpha 1a |
| A07 | Mm.39086 | NM_007416 | Adra1b | Adrenergic receptor, alpha 1b |
| A08 | Mm.389380 | NM_013460 | Adra1d | Adrenergic receptor, alpha 1d |
| A09 | Mm.235195 | NM_007417 | Adra2a | Adrenergic receptor, alpha 2a |
| A10 | Mm.347390 | NM_009633 | Adra2b | Adrenergic receptor, alpha 2b |
| A11 | Mm.57205 | NM_007418 | Adra2c | Adrenergic receptor, alpha 2c |
| A12 | Mm.46797 | NM_007419 | Adrb1 | Adrenergic receptor, beta 1 |
| A13 | Mm.5598 | NM_007420 | Adrb2 | Adrenergic receptor, beta 2 |
| A14 | Mm.278475 | NM_013462 | Adrb3 | Adrenergic receptor, beta 3 |
| A15 | Mm.35062 | NM_177322 | Agtr1a | Angiotensin II receptor, type 1a |
| A16 | Mm.134863 | NM_175086 | Agtr1b | Angiotensin II receptor, type 1b |
| A17 | Mm.2679 | NM_007429 | Agtr2 | Angiotensin II receptor, type 2 |
| A18 | Mm.29368 | NM_011784 | Aplnr | Apelin receptor |
| A19 | Mm.4351 | NM_016847 | Avpr1a | Arginine vasopressin receptor 1A |
| A20 | Mm.89986 | NM_011924 | Avpr1b | Arginine vasopressin receptor 1B |
| A21 | Mm.383171 | NM_019404 | Avpr2 | Arginine vasopressin receptor 2 |
| A22 | Mm.43133 | NM_174991 | Bai1 | Brain-specific angiogenesis inhibitor 1 |
| A23 | Mm.262241 | NM_173071 | Bai2 | Brain-specific angiogenesis inhibitor 2 |
| A24 | Mm.336569 | NM_175642 | Bai3 | Brain-specific angiogenesis inhibitor 3 |
| B01 | Mm.377078 | NM_007539 | Bdkrb1 | Bradykinin receptor, beta 1 |
| B02 | Mm.390475 | NM_009747 | Bdkrb2 | Bradykinin receptor, beta 2 |
| B03 | Mm.10687 | NM_009766 | Brs3 | Bombesin-like receptor 3 |
| B04 | Mm.2408 | NM_009779 | C3ar1 | Complement component 3a receptor 1 |
| B05 | Mm.247623 | NM_007577 | C5ar1 | Complement component 5a receptor 1 |
| B06 | Mm.4642 | NM_007588 | Calcr | Calcitonin receptor |
| B07 | Mm.75467 | NM_018782 | Calclrl | Calcitonin receptor-like |
| B08 | Mm.103619 | NM_013803 | Casr | Calcium-sensing receptor |
| B09 | Mm.258105 | NM_021609 | Ccbp2 | Chemokine binding protein 2 |
| B10 | Mm.3521 | NM_009827 | Cckar | Cholecystokinin A receptor |
| B11 | Mm.44513 | NM_007627 | Cckbr | Cholecystokinin B receptor |
| B12 | Mm.274927 | NM_009912 | Ccr1 | Chemokine (C-C motif) receptor 1 |
| B13 | Mm.8021 | NM_007721 | Ccr10 | Chemokine (C-C motif) receptor 10 |
| B14 | Mm.6272 | NM_009915 | Ccr2 | Chemokine (C-C motif) receptor 2 |
| B15 | Mm.57050 | NM_009914 | Ccr3 | Chemokine (C-C motif) receptor 3 |
| B16 | Mm.1337 | NM_009916 | Ccr4 | Chemokine (C-C motif) receptor 4 |
| B17 | Mm.14302 | NM_009917 | Ccr5 | Chemokine (C-C motif) receptor 5 |
| B18 | Mm.8007 | NM_009835 | Ccr6 | Chemokine (C-C motif) receptor 6 |
| B19 | Mm.2932 | NM_007719 | Ccr7 | Chemokine (C-C motif) receptor 7 |
| B20 | Mm.442098 | NM_007720 | Ccr8 | Chemokine (C-C motif) receptor 8 |
| B21 | Mm.440604 | NM_009913 | Ccr9 | Chemokine (C-C motif) receptor 9 |
| B22 | Mm.269254 | NM_145700 | Ccr11 | Chemokine (C-C motif) receptor-like 1 |
| B23 | Mm.7336 | NM_017466 | Ccr12 | Chemokine (C-C motif) receptor-like 2 |
| B24 | Mm.334648 | NM_011925 | Cd97 | CD97 antigen |
| C01 | Mm.22680 | NM_009886 | Celsr1 | Cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila) |

| Position | UniGene | GenBank | Symbol | Description |
|----------|-----------|--------------|---------|---|
| C02 | Mm.39728 | NM_017392 | Celsr2 | Cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila) |
| C03 | Mm.39945 | NM_080437 | Celsr3 | Cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila) |
| C04 | Mm.240607 | NM_007698 | Chrm1 | Cholinergic receptor, muscarinic 1, CNS |
| C05 | Mm.448632 | NM_203491 | Chrm2 | Cholinergic receptor, muscarinic 2, cardiac |
| C06 | Mm.342315 | NM_033269 | Chrm3 | Cholinergic receptor, muscarinic 3, cardiac |
| C07 | Mm.330405 | NM_007699 | Chrm4 | Cholinergic receptor, muscarinic 4 |
| C08 | Mm.297624 | NM_205783 | Chrm5 | Cholinergic receptor, muscarinic 5 |
| C09 | Mm.5196 | NM_008153 | Cmklr1 | Chemokine-like receptor 1 |
| C10 | Mm.7992 | NM_007726 | Cnr1 | Cannabinoid receptor 1 (brain) |
| C11 | Mm.297251 | NM_009924 | Cnr2 | Cannabinoid receptor 2 (macrophage) |
| C12 | Mm.18072 | NM_007761 | Crp | Calcitonin gene-related peptide-receptor component protein |
| C13 | Mm.1892 | NM_007762 | Crhr1 | Corticotropin releasing hormone receptor 1 |
| C14 | Mm.236081 | NM_009953 | Crhr2 | Corticotropin releasing hormone receptor 2 |
| C15 | Mm.44065 | NM_009987 | Cx3cr1 | Chemokine (C-X3-C) receptor 1 |
| C16 | Mm.337035 | NM_178241 | Cxcr1 | Chemokine (C-X-C motif) receptor 1 |
| C17 | Mm.234466 | NM_009909 | Cxcr2 | Chemokine (C-X-C motif) receptor 2 |
| C18 | Mm.12876 | NM_009910 | Cxcr3 | Chemokine (C-X-C motif) receptor 3 |
| C19 | Mm.1401 | NM_009911 | Cxcr4 | Chemokine (C-X-C motif) receptor 4 |
| C20 | Mm.6246 | NM_007551 | Cxcr5 | Chemokine (C-X-C motif) receptor 5 |
| C21 | Mm.124289 | NM_030712 | Cxcr6 | Chemokine (C-X-C motif) receptor 6 |
| C22 | Mm.6522 | NM_007722 | Cxcr7 | Chemokine (C-X-C motif) receptor 7 |
| C23 | Mm.287166 | NM_021476 | Cysltr1 | Cysteinyl leukotriene receptor 1 |
| C24 | Mm.158324 | NM_133720 | Cysltr2 | Cysteinyl leukotriene receptor 2 |
| D01 | Mm.6393 | NM_010045 | Darc | Duffy blood group, chemokine receptor |
| D02 | Mm.54161 | NM_010076 | Drd1a | Dopamine receptor D1A |
| D03 | Mm.41970 | NM_010077 | Drd2 | Dopamine receptor D2 |
| D04 | Mm.439735 | NM_007877 | Drd3 | Dopamine receptor D3 |
| D05 | Mm.41075 | NM_007878 | Drd4 | Dopamine receptor D4 |
| D06 | Mm.167154 | NM_013503 | Drd5 | Dopamine receptor D5 |
| D07 | Mm.283168 | NM_010332 | Ednra | Endothelin receptor type A |
| D08 | Mm.229532 | NM_007904 | Ednrb | Endothelin receptor type B |
| D09 | Mm.317261 | NM_133222 | Eld1 | EGF, latrophilin seven transmembrane domain containing 1 |
| D10 | Mm.2254 | NM_010130 | Emr1 | EGF-like module containing, mucin-like, hormone receptor-like sequence 1 |
| D11 | Mm.210497 | NM_139138 | Emr4 | EGF-like module containing, mucin-like, hormone receptor-like sequence 4 |
| D12 | Mm.24816 | NM_010169 | F2r | Coagulation factor II (thrombin) receptor |
| D13 | Mm.1614 | NM_007974 | F2rl1 | Coagulation factor II (thrombin) receptor-like 1 |
| D14 | Mm.440952 | NM_010170 | F2rl2 | Coagulation factor II (thrombin) receptor-like 2 |
| D15 | Mm.12948 | NM_007975 | F2rl3 | Coagulation factor II (thrombin) receptor-like 3 |
| D16 | Mm.425422 | NM_194057 | Ffar1 | Free fatty acid receptor 1 |
| D17 | Mm.97338 | NM_146187 | Ffar2 | Free fatty acid receptor 2 |
| D18 | Mm.291167 | NM_001033316 | Ffar3 | Free fatty acid receptor 3 |
| D19 | Mm.56951 | NM_013521 | Fpr1 | Formyl peptide receptor 1 |
| D20 | Mm.485634 | NM_008039 | Fpr2 | Formyl peptide receptor 2 |
| D21 | Mm.378918 | NM_008042 | Fpr3 | Formyl peptide receptor 3 |
| D22 | Mm.57155 | NM_013523 | Fshr | Follicle stimulating hormone receptor |
| D23 | Mm.246003 | NM_021457 | Fzd1 | Frizzled homolog 1 (Drosophila) |
| D24 | Mm.197628 | NM_175284 | Fzd10 | Frizzled homolog 10 (Drosophila) |
| E01 | Mm.36416 | NM_020510 | Fzd2 | Frizzled homolog 2 (Drosophila) |
| E02 | Mm.214687 | NM_021458 | Fzd3 | Frizzled homolog 3 (Drosophila) |
| E03 | Mm.86755 | NM_008055 | Fzd4 | Frizzled homolog 4 (Drosophila) |
| E04 | Mm.150813 | NM_022721 | Fzd5 | Frizzled homolog 5 (Drosophila) |
| E05 | Mm.4769 | NM_008056 | Fzd6 | Frizzled homolog 6 (Drosophila) |
| E06 | Mm.297906 | NM_008057 | Fzd7 | Frizzled homolog 7 (Drosophila) |
| E07 | Mm.184289 | NM_008058 | Fzd8 | Frizzled homolog 8 (Drosophila) |
| E08 | Mm.6256 | NM_010246 | Fzd9 | Frizzled homolog 9 (Drosophila) |
| E09 | Mm.32191 | NM_019439 | Gabbr1 | Gamma-aminobutyric acid (GABA) B receptor, 1 |
| E10 | Mm.101909 | NM_001081141 | Gabbr2 | Gamma-aminobutyric acid (GABA) B receptor, 2 |
| E11 | Mm.6219 | NM_008082 | Galr1 | Galanin receptor 1 |
| E12 | Mm.57149 | NM_010254 | Galr2 | Galanin receptor 2 |
| E13 | Mm.390805 | NM_015738 | Galr3 | Galanin receptor 3 |
| E14 | Mm.22329 | NM_008101 | Gcgr | Glucagon receptor |
| E15 | Mm.89928 | NM_001003685 | Ghrhr | Growth hormone releasing hormone receptor |
| E16 | Mm.194721 | NM_177330 | Ghsr | Growth hormone secretagogue receptor |
| E17 | Mm.333633 | NM_001080815 | Gipr | Gastric inhibitory polypeptide receptor |
| E18 | Mm.390969 | NM_021332 | Glp1r | Glucagon-like peptide 1 receptor |
| E19 | Mm.118883 | NM_175681 | Glp2r | Glucagon-like peptide 2 receptor |
| E20 | Mm.26791 | NM_010323 | Gnrhr | Gonadotropin releasing hormone receptor |
| E21 | Mm.246587 | NM_174985 | Gpbar1 | G protein-coupled bile acid receptor 1 |
| E22 | Mm.103354 | NM_146250 | Gpr1 | G protein-coupled receptor 1 |

| Position | UniGene | GenBank | Symbol | Description |
|----------|-----------|--------------|--------|--------------------------------|
| E23 | Mm.336070 | NM_001033360 | Gpr101 | G protein-coupled receptor 101 |
| E24 | Mm.159950 | NM_133776 | Gpr110 | G protein-coupled receptor 110 |
| F01 | Mm.136350 | NM_001033493 | Gpr111 | G protein-coupled receptor 111 |
| F02 | Mm.35282 | XM_003085259 | Gpr112 | G protein-coupled receptor 112 |
| F03 | Mm.291148 | NM_001014394 | Gpr113 | G protein-coupled receptor 113 |
| F04 | Mm.334726 | NM_001033468 | Gpr114 | G protein-coupled receptor 114 |
| F05 | Mm.66217 | NM_030067 | Gpr115 | G protein-coupled receptor 115 |
| F06 | Mm.23478 | NM_001081178 | Gpr116 | G protein-coupled receptor 116 |
| F07 | Mm.269129 | NM_181751 | Gpr119 | G-protein coupled receptor 119 |
| F08 | Mm.153539 | NM_008151 | Gpr12 | G-protein coupled receptor 12 |
| F09 | Mm.39863 | NM_177469 | Gpr123 | G protein-coupled receptor 123 |
| F10 | Mm.87046 | NM_054044 | Gpr124 | G protein-coupled receptor 124 |
| F11 | Mm.272974 | NM_133911 | Gpr125 | G protein-coupled receptor 125 |
| F12 | Mm.440142 | NM_001002268 | Gpr126 | G protein-coupled receptor 126 |
| F13 | Mm.258979 | NM_172825 | Gpr128 | G protein-coupled receptor 128 |
| F14 | Mm.20455 | NM_019925 | Gpr132 | G protein-coupled receptor 132 |
| F15 | Mm.440501 | NM_001081342 | Gpr133 | G protein-coupled receptor 133 |
| F16 | Mm.390508 | NM_181752 | Gpr135 | G protein-coupled receptor 135 |
| F17 | Mm.300632 | NM_001024138 | Gpr139 | G protein-coupled receptor 139 |
| F18 | Mm.239268 | NM_181754 | Gpr141 | G protein-coupled receptor 141 |
| F19 | Mm.269127 | NM_181749 | Gpr142 | G protein-coupled receptor 142 |
| F20 | Mm.5157 | NM_010951 | Gpr143 | G protein-coupled receptor 143 |
| F21 | Mm.330187 | XR_104654 | Gpr144 | G protein-coupled receptor 144 |
| F22 | Mm.270003 | NM_030258 | Gpr146 | G protein-coupled receptor 146 |
| F23 | Mm.95181 | NM_177346 | Gpr149 | G protein-coupled receptor 149 |
| F24 | Mm.390873 | NM_001162955 | Gpr15 | G protein-coupled receptor 15 |
| G01 | Mm.167172 | NM_175495 | Gpr150 | G protein-coupled receptor 150 |
| G02 | Mm.186779 | NM_181543 | Gpr151 | G protein-coupled receptor 151 |
| G03 | Mm.131677 | NM_206973 | Gpr152 | G protein-coupled receptor 152 |
| G04 | Mm.23235 | NM_178406 | Gpr153 | G protein-coupled receptor 153 |
| G05 | Mm.228018 | NM_153394 | Gpr156 | G protein-coupled receptor 156 |
| G06 | Mm.166647 | NM_001004761 | Gpr158 | G protein-coupled receptor 158 |
| G07 | Mm.272019 | NM_001134385 | Gpr160 | G protein-coupled receptor 160 |
| G08 | Mm.329929 | NM_001081126 | Gpr161 | G protein-coupled receptor 161 |
| G09 | Mm.2514 | NM_013533 | Gpr162 | G protein-coupled receptor 162 |
| G10 | Mm.391108 | NM_001025381 | Gpr17 | G protein-coupled receptor 17 |
| G11 | Mm.123648 | NM_173398 | Gpr171 | G protein-coupled receptor 171 |
| G12 | Mm.158445 | NM_027543 | Gpr173 | G-protein coupled receptor 173 |
| G13 | Mm.383562 | NM_001033251 | Gpr174 | G protein-coupled receptor 174 |
| G14 | Mm.70979 | NM_201367 | Gpr176 | G protein-coupled receptor 176 |
| G15 | Mm.32622 | NM_001081220 | Gpr179 | G protein-coupled receptor 179 |
| G16 | Mm.37405 | NM_182806 | Gpr18 | G protein-coupled receptor 18 |
| G17 | Mm.2857 | NM_007412 | Gpr182 | G protein-coupled receptor 182 |
| G18 | Mm.265618 | NM_183031 | Gpr183 | G protein-coupled receptor 183 |
| G19 | Mm.4787 | NM_008157 | Gpr19 | G protein-coupled receptor 19 |
| G20 | Mm.122997 | NM_173365 | Gpr20 | G protein-coupled receptor 20 |
| G21 | Mm.445325 | NM_177383 | Gpr21 | G protein-coupled receptor 21 |
| G22 | Mm.441517 | NM_175191 | Gpr22 | G protein-coupled receptor 22 |
| G23 | Mm.40367 | NM_001101516 | Gpr25 | G protein-coupled receptor 25 |
| G24 | Mm.208740 | NM_173410 | Gpr26 | G protein-coupled receptor 26 |
| H01 | Mm.35009 | NM_008158 | Gpr27 | G protein-coupled receptor 27 |
| H02 | Mm.4721 | NM_008154 | Gpr3 | G-protein coupled receptor 3 |
| H03 | Mm.389706 | NM_029771 | Gpr30 | G protein-coupled receptor 30 |
| H04 | Mm.12890 | NM_008159 | Gpr33 | G protein-coupled receptor 33 |
| H05 | Mm.391232 | NM_011823 | Gpr34 | G protein-coupled receptor 34 |
| H06 | Mm.152780 | NM_022320 | Gpr35 | G protein-coupled receptor 35 |
| H07 | Mm.409670 | NM_010338 | Gpr37 | G protein-coupled receptor 37 |
| H08 | Mm.485314 | NM_027677 | Gpr39 | G protein-coupled receptor 39 |
| H09 | Mm.135984 | NM_175668 | Gpr4 | G protein-coupled receptor 4 |
| H10 | Mm.470721 | NM_009962 | Gpr44 | G protein-coupled receptor 44 |
| H11 | Mm.444976 | NM_053107 | Gpr45 | G protein-coupled receptor 45 |
| H12 | Mm.33336 | NM_010340 | Gpr50 | G-protein-coupled receptor 50 |
| H13 | Mm.244158 | NM_001033290 | Gpr55 | G protein-coupled receptor 55 |
| H14 | Mm.290834 | NM_018882 | Gpr56 | G protein-coupled receptor 56 |
| H15 | Mm.290693 | NM_199058 | Gpr6 | G protein-coupled receptor 6 |
| H16 | Mm.73666 | NM_175470 | Gpr61 | G protein-coupled receptor 61 |
| H17 | Mm.482905 | NM_001159652 | Gpr62 | G protein-coupled receptor 62 |
| H18 | Mm.160412 | NM_030733 | Gpr63 | G protein-coupled receptor 63 |
| H19 | Mm.213016 | NM_178712 | Gpr64 | G protein-coupled receptor 64 |
| H20 | Mm.378924 | NM_008152 | Gpr65 | G-protein coupled receptor 65 |
| H21 | Mm.32160 | NM_175493 | Gpr68 | G protein-coupled receptor 68 |

| Position | UniGene | GenBank | Symbol | Description |
|----------|-----------|--------------|---------|---|
| H22 | Mm.338361 | NM_175490 | Gpr75 | G protein-coupled receptor 75 |
| H23 | Mm.239570 | NM_176912 | Gpr77 | G protein-coupled receptor 77 |
| H24 | Mm.33362 | NM_175520 | Gpr81 | G protein-coupled receptor 81 |
| I01 | Mm.383294 | NM_175669 | Gpr82 | G protein-coupled receptor 82 |
| I02 | Mm.4672 | NM_010287 | Gpr83 | G protein-coupled receptor 83 |
| I03 | Mm.160369 | NM_030720 | Gpr84 | G protein-coupled receptor 84 |
| I04 | Mm.167625 | NM_145066 | Gpr85 | G protein-coupled receptor 85 |
| I05 | Mm.60267 | NM_032399 | Gpr87 | G protein-coupled receptor 87 |
| I06 | Mm.40025 | NM_022427 | Gpr88 | G-protein coupled receptor 88 |
| I07 | Mm.27995 | NM_173036 | Gpr97 | G protein-coupled receptor 97 |
| I08 | Mm.288694 | NM_054053 | Gpr98 | G protein-coupled receptor 98 |
| I09 | Mm.23575 | NM_181444 | Gprc5a | G protein-coupled receptor, family C, group 5, member A |
| I10 | Mm.103439 | NM_022420 | Gprc5b | G protein-coupled receptor, family C, group 5, member B |
| I11 | Mm.242413 | NM_147217 | Gprc5c | G protein-coupled receptor, family C, group 5, member C |
| I12 | Mm.49902 | NM_053118 | Gprc5d | G protein-coupled receptor, family C, group 5, member D |
| I13 | Mm.221031 | NM_153071 | Gprc6a | G protein-coupled receptor, family C, group 6, member A |
| I14 | Mm.40896 | NM_001081097 | Grik3 | Glutamate receptor, ionotropic, kainate 3 |
| I15 | Mm.391904 | NM_016976 | Grm1 | Glutamate receptor, metabotropic 1 |
| I16 | Mm.410822 | NM_001160353 | Grm2 | Glutamate receptor, metabotropic 2 |
| I17 | Mm.318966 | NM_181850 | Grm3 | Glutamate receptor, metabotropic 3 |
| I18 | Mm.358940 | NM_001013385 | Grm4 | Glutamate receptor, metabotropic 4 |
| I19 | Mm.235018 | NM_001081414 | Grm5 | Glutamate receptor, metabotropic 5 |
| I20 | Mm.134265 | NM_173372 | Grm6 | Glutamate receptor, metabotropic 6 |
| I21 | Mm.240881 | NM_177328 | Grm7 | Glutamate receptor, metabotropic 7 |
| I22 | Mm.320732 | NM_008174 | Grm8 | Glutamate receptor, metabotropic 8 |
| I23 | Mm.4687 | NM_008177 | Grpr | Gastrin releasing peptide receptor |
| I24 | Mm.246595 | NM_198959 | Hcrtr1 | Hypocretin (orexin) receptor 1 |
| J01 | Mm.335300 | NM_198962 | Hcrtr2 | Hypocretin (orexin) receptor 2 |
| J02 | Mm.333327 | NM_008285 | Hrh1 | Histamine receptor H1 |
| J03 | Mm.57243 | NM_008286 | Hrh2 | Histamine receptor H2 |
| J04 | Mm.285360 | NM_133849 | Hrh3 | Histamine receptor H3 |
| J05 | Mm.207073 | NM_153087 | Hrh4 | Histamine receptor H4 |
| J06 | Mm.4716 | NM_008308 | Htr1a | 5-hydroxytryptamine (serotonin) receptor 1A |
| J07 | Mm.445308 | NM_010482 | Htr1b | 5-hydroxytryptamine (serotonin) receptor 1B |
| J08 | Mm.40573 | NM_008309 | Htr1d | 5-hydroxytryptamine (serotonin) receptor 1D |
| J09 | Mm.5040 | NM_008310 | Htr1f | 5-hydroxytryptamine (serotonin) receptor 1F |
| J10 | Mm.214351 | NM_172812 | Htr2a | 5-hydroxytryptamine (serotonin) receptor 2A |
| J11 | Mm.439747 | NM_008311 | Htr2b | 5-hydroxytryptamine (serotonin) receptor 2B |
| J12 | Mm.439670 | NM_008312 | Htr2c | 5-hydroxytryptamine (serotonin) receptor 2C |
| J13 | Mm.4831 | NM_013561 | Htr3a | 5-hydroxytryptamine (serotonin) receptor 3A |
| J14 | Mm.117131 | NM_020274 | Htr3b | 5-hydroxytryptamine (serotonin) receptor 3B |
| J15 | Mm.20440 | NM_008313 | Htr4 | 5 hydroxytryptamine (serotonin) receptor 4 |
| J16 | Mm.4835 | NM_008314 | Htr5a | 5-hydroxytryptamine (serotonin) receptor 5A |
| J17 | Mm.4833 | NM_010483 | Htr5b | 5-hydroxytryptamine (serotonin) receptor 5B |
| J18 | Mm.425211 | NM_021358 | Htr6 | 5-hydroxytryptamine (serotonin) receptor 6 |
| J19 | Mm.254266 | NM_008315 | Htr7 | 5-hydroxytryptamine (serotonin) receptor 7 |
| J20 | Mm.191035 | NM_053244 | Kiss1r | KISS1 receptor |
| J21 | Mm.259282 | NM_010704 | Lepr | Leptin receptor |
| J22 | Mm.277351 | NM_172671 | Lgr4 | Leucine-rich repeat-containing G protein-coupled receptor 4 |
| J23 | Mm.42103 | NM_010195 | Lgr5 | Leucine rich repeat containing G protein coupled receptor 5 |
| J24 | Mm.1644 | NM_013582 | Lhcgr | Luteinizing hormone/choriogonadotropin receptor |
| K01 | Mm.4772 | NM_010336 | Lpar1 | Lysophosphatidic acid receptor 1 |
| K02 | Mm.23253 | NM_020028 | Lpar2 | Lysophosphatidic acid receptor 2 |
| K03 | Mm.155520 | NM_022983 | Lpar3 | Lysophosphatidic acid receptor 3 |
| K04 | Mm.90147 | NM_175271 | Lpar4 | Lysophosphatidic acid receptor 4 |
| K05 | Mm.333386 | NM_001163268 | Lpar5 | Lysophosphatidic acid receptor 5 |
| K06 | Mm.390681 | NM_175116 | Lpar6 | Lysophosphatidic acid receptor 6 |
| K07 | Mm.260733 | NM_181039 | Lphn1 | Latrophilin 1 |
| K08 | Mm.9776 | NM_001081298 | Lphn2 | Latrophilin 2 |
| K09 | Mm.273631 | NM_198702 | Lphn3 | Latrophilin 3 |
| K10 | Mm.20853 | NM_008519 | Ltb4r1 | Leukotriene B4 receptor 1 |
| K11 | Mm.159670 | NM_020490 | Ltb4r2 | Leukotriene B4 receptor 2 |
| K12 | Mm.425994 | NM_008552 | Mas1 | MAS1 oncogene |
| K13 | Mm.324942 | NM_008559 | Mc1r | Melanocortin 1 receptor |
| K14 | Mm.426053 | NM_008560 | Mc2r | Melanocortin 2 receptor |
| K15 | Mm.57183 | NM_008561 | Mc3r | Melanocortin 3 receptor |
| K16 | Mm.229447 | NM_016977 | Mc4r | Melanocortin 4 receptor |
| K17 | Mm.8003 | NM_013596 | Mc5r | Melanocortin 5 receptor |
| K18 | Mm.323523 | NM_145132 | Mchr1 | Melanin-concentrating hormone receptor 1 |
| K19 | Mm.83689 | NM_175531 | Mrgprb2 | MAS-related GPR, member B2 |
| K20 | Mm.377250 | NM_205795 | Mrgprb4 | MAS-related GPR, member B4 |

| Position | UniGene | GenBank | Symbol | Description |
|----------|-----------|--------------|---------|--|
| K21 | Mm.377927 | NM_207538 | Mrgprb5 | MAS-related GPR, member B5 |
| K22 | Mm.370299 | NM_203490 | Mrgprd | MAS-related GPR, member D |
| K23 | Mm.183561 | NM_175534 | Mrgpre | MAS-related GPR, member E |
| K24 | Mm.215151 | NM_145379 | Mrgprf | MAS-related GPR, member F |
| L01 | Mm.297839 | NM_203492 | Mrgprg | MAS-related GPR, member G |
| L02 | Mm.160368 | NM_030726 | Mrgprh | MAS-related GPR, member H |
| L03 | Mm.354955 | NM_207540 | Mrgprx1 | MAS-related GPR, member X1 |
| L04 | Mm.333873 | NM_001034868 | Mrgprx2 | MAS-related GPR, member X2 |
| L05 | Mm.5133 | NM_008639 | Mtnr1a | Melatonin receptor 1A |
| L06 | Mm.222631 | NM_145712 | Mtnr1b | Melatonin receptor 1B |
| L07 | Mm.440567 | NM_030701 | Niacr1 | Niacin receptor 1 |
| L08 | Mm.425622 | NM_008703 | Nmbr | Neuromedin B receptor |
| L09 | Mm.389159 | NM_010341 | Nmur1 | Neuromedin U receptor 1 |
| L10 | Mm.213205 | NM_153079 | Nmur2 | Neuromedin U receptor 2 |
| L11 | Mm.291110 | NM_010342 | Npbwr1 | Neuropeptides B/W receptor 1 |
| L12 | Mm.131297 | NM_001177511 | Npffr1 | Neuropeptide FF receptor 1 |
| L13 | Mm.447881 | NM_133192 | Npffr2 | Neuropeptide FF receptor 2 |
| L14 | Mm.4627 | NM_008727 | Npr1 | Natriuretic peptide receptor 1 |
| L15 | Mm.103477 | NM_173788 | Npr2 | Natriuretic peptide receptor 2 |
| L16 | Mm.25259 | NM_008728 | Npr3 | Natriuretic peptide receptor 3 |
| L17 | Mm.130824 | NM_175678 | Npsr1 | Neuropeptide S receptor 1 |
| L18 | Mm.5112 | NM_010934 | Npy1r | Neuropeptide Y receptor Y1 |
| L19 | Mm.1433 | NM_008731 | Npy2r | Neuropeptide Y receptor Y2 |
| L20 | Mm.10685 | NM_016708 | Npy5r | Neuropeptide Y receptor Y5 |
| L21 | Mm.57234 | NM_010935 | Npy6r | Neuropeptide Y receptor Y6 |
| L22 | Mm.301712 | NM_018766 | Ntsr1 | Neurotensin receptor 1 |
| L23 | Mm.281715 | NM_008747 | Ntsr2 | Neurotensin receptor 2 |
| L24 | Mm.35288 | NM_181748 | O3far1 | Omega-3 fatty acid receptor 1 |
| M01 | Mm.250418 | NM_031373 | Ogrf | Opioid growth factor receptor |
| M02 | Mm.284825 | NM_008106 | Opn1mw | Opsin 1 (cone pigments), medium-wave-sensitive (color blindness, deutan) |
| M03 | Mm.56987 | NM_007538 | Opn1sw | Opsin 1 (cone pigments), short-wave-sensitive (color blindness, tritan) |
| M04 | Mm.32744 | NM_010098 | Opn3 | Opsin 3 |
| M05 | Mm.103670 | NM_013887 | Opn4 | Opsin 4 (melanopsin) |
| M06 | Mm.184937 | NM_181753 | Opn5 | Opsin 5 |
| M07 | Mm.5243 | NM_013622 | Oprd1 | Opioid receptor, delta 1 |
| M08 | Mm.7977 | NM_011011 | Oprk1 | Opioid receptor, kappa 1 |
| M09 | Mm.285075 | NM_011012 | Oprl1 | Opioid receptor-like 1 |
| M10 | Mm.457998 | NM_001039652 | Oprm1 | Opioid receptor, mu 1 |
| M11 | Mm.138520 | NM_001001490 | Oxgr1 | Oxoglutarate (alpha-ketoglutarate) receptor 1 |
| M12 | Mm.333310 | NM_001081147 | Oxtr | Oxytocin receptor |
| M13 | Mm.281452 | NM_008772 | P2ry1 | Purinergic receptor P2Y, G-protein coupled 1 |
| M14 | Mm.74639 | NM_172435 | P2ry10 | Purinergic receptor P2Y, G-protein coupled 10 |
| M15 | Mm.422675 | NM_027571 | P2ry12 | Purinergic receptor P2Y, G-protein coupled 12 |
| M16 | Mm.90067 | NM_028808 | P2ry13 | Purinergic receptor P2Y, G-protein coupled 13 |
| M17 | Mm.447969 | NM_133200 | P2ry14 | Purinergic receptor P2Y, G-protein coupled, 14 |
| M18 | Mm.3000 | NM_008773 | P2ry2 | Purinergic receptor P2Y, G-protein coupled 2 |
| M19 | Mm.117118 | NM_020621 | P2ry4 | Pyrimidinergic receptor P2Y, G-protein coupled, 4 |
| M20 | Mm.235193 | NM_183168 | P2ry6 | Pyrimidinergic receptor P2Y, G-protein coupled, 6 |
| M21 | Mm.4146 | NM_008809 | Pdgfrb | Platelet derived growth factor receptor, beta polypeptide |
| M22 | Mm.284246 | NM_026840 | Pdgfrl | Platelet-derived growth factor receptor-like |
| M23 | Mm.57059 | NM_008919 | Ppyr1 | Pancreatic polypeptide receptor 1 |
| M24 | Mm.377241 | NM_201615 | Prhr | Prolactin releasing hormone receptor |
| N01 | Mm.333226 | NM_021381 | Prokr1 | Prokineticin receptor 1 |
| N02 | Mm.283777 | NM_144944 | Prokr2 | Prokineticin receptor 2 |
| N03 | Mm.89389 | NM_001081211 | Ptafr | Platelet-activating factor receptor |
| N04 | Mm.5105 | NM_008962 | Ptgdr | Prostaglandin D receptor |
| N05 | Mm.347482 | NM_013641 | Ptger1 | Prostaglandin E receptor 1 (subtype EP1) |
| N06 | Mm.4630 | NM_008964 | Ptger2 | Prostaglandin E receptor 2 (subtype EP2) |
| N07 | Mm.30424 | NM_011196 | Ptger3 | Prostaglandin E receptor 3 (subtype EP3) |
| N08 | Mm.18509 | NM_008965 | Ptger4 | Prostaglandin E receptor 4 (subtype EP4) |
| N09 | Mm.331442 | NM_008966 | Ptgif | Prostaglandin F receptor |
| N10 | Mm.287572 | NM_008967 | Ptgir | Prostaglandin I receptor (IP) |
| N11 | Mm.3542 | NM_011199 | Pth1r | Parathyroid hormone 1 receptor |
| N12 | Mm.294225 | NM_139270 | Pth2r | Parathyroid hormone 2 receptor |
| N13 | Mm.330975 | NM_198192 | Qrfpr | Pyroglutamylated RFamide peptide receptor |
| N14 | Mm.20460 | NM_021340 | Rgr | Retinal G protein coupled receptor |
| N15 | Mm.2965 | NM_145383 | Rho | Rhodopsin |
| N16 | Mm.278758 | NM_009102 | Rrh | Retinal pigment epithelium derived rhodopsin homolog |
| N17 | Mm.331086 | NM_212452 | Rxfp1 | Relaxin/insulin-like family peptide receptor 1 |
| N18 | Mm.444643 | NM_080468 | Rxfp2 | Relaxin/insulin-like family peptide receptor 2 |
| N19 | Mm.209312 | NM_178717 | Rxfp3 | Relaxin family peptide receptor 3 |

| Position | UniGene | GenBank | Symbol | Description |
|----------|-----------|--------------|----------|---|
| N20 | Mm.269130 | NM_181817 | Rxfp4 | Relaxin family peptide receptor 4 |
| N21 | Mm.982 | NM_007901 | S1pr1 | Sphingosine-1-phosphate receptor 1 |
| N22 | Mm.46493 | NM_010333 | S1pr2 | Sphingosine-1-phosphate receptor 2 |
| N23 | Mm.136736 | NM_010101 | S1pr3 | Sphingosine-1-phosphate receptor 3 |
| N24 | Mm.33065 | NM_010102 | S1pr4 | Sphingosine-1-phosphate receptor 4 |
| O01 | Mm.190619 | NM_053190 | S1pr5 | Sphingosine-1-phosphate receptor 5 |
| O02 | Mm.189223 | NM_001012322 | Scfr | Secretin receptor |
| O03 | Mm.425181 | NM_011014 | Sigmar1 | Sigma non-opioid intracellular receptor 1 |
| O04 | Mm.29279 | NM_176996 | Smo | Smoothed homolog (Drosophila) |
| O05 | Mm.313672 | NM_021377 | Sorcs1 | VPS10 domain receptor protein SORCS 1 |
| O06 | Mm.34113 | NM_030889 | Sorcs2 | Sortilin-related VPS10 domain containing receptor 2 |
| O07 | Mm.70980 | NM_025696 | Sorcs3 | Sortilin-related VPS10 domain containing receptor 3 |
| O08 | Mm.278336 | NM_009216 | Sstr1 | Somatostatin receptor 1 |
| O09 | Mm.454968 | NM_009217 | Sstr2 | Somatostatin receptor 2 |
| O10 | Mm.211411 | NM_009218 | Sstr3 | Somatostatin receptor 3 |
| O11 | Mm.35324 | NM_009219 | Sstr4 | Somatostatin receptor 4 |
| O12 | Mm.353282 | NM_011425 | Sstr5 | Somatostatin receptor 5 |
| O13 | Mm.125110 | NM_032400 | Sucnr1 | Succinate receptor 1 |
| O14 | Mm.377141 | NM_053205 | Taar1 | Trace amine-associated receptor 1 |
| O15 | Mm.300611 | NM_001007266 | Taar2 | Trace amine-associated receptor 2 |
| O16 | Mm.379737 | NM_001008429 | Taar3 | Trace amine-associated receptor 3 |
| O17 | Mm.300612 | NM_001008499 | Taar4 | Trace amine-associated receptor 4 |
| O18 | Mm.377236 | NM_001009574 | Taar5 | Trace amine-associated receptor 5 |
| O19 | Mm.377237 | NM_001010828 | Taar6 | Trace amine-associated receptor 6 |
| O20 | Mm.377232 | NM_001010827 | Taar7b | Trace amine-associated receptor 7B |
| O21 | Mm.300923 | NM_001010831 | Taar9 | Trace amine-associated receptor 9 |
| O22 | Mm.8055 | NM_009313 | Tacr1 | Tachykinin receptor 1 |
| O23 | Mm.8054 | NM_009314 | Tacr2 | Tachykinin receptor 2 |
| O24 | Mm.103810 | NM_021382 | Tacr3 | Tachykinin receptor 3 |
| P01 | Mm.4545 | NM_009325 | Tbxa2r | Thromboxane A2 receptor |
| P02 | Mm.331719 | NM_053157 | Tm2d1 | TM2 domain containing 1 |
| P03 | Mm.309350 | NM_013696 | Trhr | Thyrotropin releasing hormone receptor |
| P04 | Mm.154808 | NM_133202 | Trhr2 | Thyrotropin releasing hormone receptor 2 |
| P05 | Mm.173847 | NM_011648 | Tshr | Thyroid stimulating hormone receptor |
| P06 | Mm.20122 | NM_145440 | Uts2r | Urotensin 2 receptor |
| P07 | Mm.282007 | NM_011703 | Vipr1 | Vasoactive intestinal peptide receptor 1 |
| P08 | Mm.395245 | NM_009511 | Vipr2 | Vasoactive intestinal peptide receptor 2 |
| P09 | Mm.390241 | NM_011798 | Xcr1 | Chemokine (C motif) receptor 1 |
| P10 | Mm.266215 | NM_011273 | Xpr1 | Xenotropic and polytropic retrovirus receptor 1 |
| P11 | Mm.328431 | NM_007393 | Actb | Actin, beta |
| P12 | Mm.163 | NM_009735 | B2m | Beta-2 microglobulin |
| P13 | Mm.343110 | NM_008084 | Gapdh | Glyceraldehyde-3-phosphate dehydrogenase |
| P14 | Mm.3317 | NM_010368 | Gusb | Glucuronidase, beta |
| P15 | Mm.2180 | NM_008302 | Hsp90ab1 | Heat shock protein 90 alpha (cytosolic), class B member 1 |
| P16 | N/A | SA_00106 | MGDC | Mouse Genomic DNA Contamination |
| P17 | N/A | SA_00106 | MGDC | Mouse Genomic DNA Contamination |
| P18 | N/A | SA_00106 | MGDC | Mouse 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 |

Related products

For optimal performance, RT² Profiler PCR Arrays should be used together with the RT² First Strand Kit for cDNA synthesis and RT² SYBR[®] Green qPCR Mastermixes for PCR.

| Product | Contents | Cat. no. |
|---|--|----------|
| RT ² First Strand Kit (12) | Enzymes and reagents for cDNA synthesis | 330401 |
| RT ² SYBR Green qPCR Mastermix (8)* | For 4 x 384 assays in 384-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad model CFX384; Roche LightCycler 480 (384-well); all other cyclers | 330501 |
| RT ² SYBR Green ROX [™] qPCR Mastermix (8)* | For 4 x 384 assays in 384-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 7900HT, ViiA 7 (384-well blocks) | 330521 |
| RT ² SYBR Green Fluor qPCR Mastermix (8)* | For 4 x 384 assays in 384-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler [®] , iQ [™] 5, MyiQ [™] , MyiQ2 | 330511 |

* Larger kit sizes available; please inquire.

RT² Profiler PCR Array products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN[®](QIAGEN Group); Applied Biosystems[®], ViiA[™], ROX[™] (Applied Biosystems Corporation or its subsidiaries); Bio-Rad[®], CFX384[™], iQ[™], MyiQ[™]. iCycler[®] (Bio-Rad Laboratories, Inc.); Roche[®], LightCycler[®] (Roche Group); SYBR[®](Molecular Probes, Inc.). 1067687 03/2011 © 2011 QIAGEN, all rights reserved.

www.qiagen.com

Canada ■ 800-572-9613

China ■ 8621-3865-3865

Denmark ■ 80-885945

Finland ■ 0800-914416

France ■ 01-60-920-930

Germany ■ 02103-29-12000

Hong Kong ■ 800 933 965

Ireland ■ 1800 555 049

Italy ■ 800-787980

Japan ■ 03-6890-7300

Korea (South) ■ 080-000-7145

Luxembourg ■ 8002 2076

Mexico ■ 01-800-7742-436

The Netherlands ■ 0800 0229592

Norway ■ 800-18859

Singapore ■ 1800-742-4368

Spain ■ 91-630-7050

Sweden ■ 020-790282

Switzerland ■ 055-254-22-11

UK ■ 01293-422-911

USA ■ 800-426-8157



Sample & Assay Technologies