

| <u>Affymetrix ID</u> | <u>FC</u> | <u>p-value</u> | <u>Gene Title</u> | <u>human cytoband</u> |
|---|--------------|----------------|--|-----------------------|
| <u>Motor Activity (1)</u> | | | | |
| GgaAffx.2572.1.S1_at | 1.54 | 0.0285 | myosin IE (MYO1E) | 15q21-q22 |
| <u>Enzyme Regulator Activity (4)</u> | | | | |
| Gga.10521.1.S1_s_at | 1.54 | 0.0157 | GTPase activating Rap/RanGAP domain-like 1 (GARNL1) | 14q13.2 |
| GgaAffx.5055.3.S1_s_at | 1.69 | 0.0132 | protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) | 7q22-q31 |
| Gga.1287.1.S1_at | 1.74 | 0.0410 | RAS guanyl releasing protein 3 (RASGRP3) | 2p25.1-p24.1 |
| Gga.11764.3.A1_a_at | -1.79 | 0.0363 | GTP cyclohydrolase I feedback regulator (GCHFR) | 15q15 |
| <u>Structural Molecule Activity (4)</u> | | | | |
| Gga.2129.1.S1_s_at | 1.56 | 0.0117 | microtubule-associated protein 1B (MAP1B) | 5q13 |
| Gga.9659.1.S1_s_at | 2.90 | 0.0011 | spectrin, beta, non-erythrocytic 1 (SPTBN1) | 2p21 |
| Gga.9232.1.S1_at | -1.50 | 0.0351 | mitochondrial ribosomal protein S36 MRPS36) | 5q13.2 |
| Gga.3315.2.S1_x_at | -1.67 | 0.0255 | mitochondrial ribosomal protein L17 (MRPL17) | 11p15.5-p15.4 |
| <u>Transporter Activity (4)</u> | | | | |
| GgaAffx.1768.1.S1_s_at | -1.50 | 0.0314 | cholinergic receptor, nicotinic, beta 2 (neuronal) (CHRN2) | 1q21.3 |
| GgaAffx.6591.2.S1_s_at | -1.59 | 0.0047 | ATP-binding cassette, sub-family C, member 10 (ABCC10) | 6p21.1 |
| GgaAffx.8937.1.S1_at | -1.68 | 0.0214 | synaptotagmin-like 2 (SYTL2) | 11q14 |
| Gga.9899.1.S1_at | -1.69 | 0.0425 | Solute carrier family 7, member 3 (SLC7A3) | Xq13.1 |
| <u>Transcription Regulator Activity (5)</u> | | | | |
| GgaAffx.6017.1.S1_s_at | 1.58 | 0.0309 | interleukin-1 receptor-associated kinase 4 (RCJMB04_17b10) | 12q12 |
| GgaAffx.11523.1.S1_at | 1.83 | 0.0069 | E74-like factor 1 (ets domain transcription factor) (ELF1) | 13q13 |
| Gga.3125.1.S1_at | 2.54 | 0.0360 | inhibitor of DNA binding 2, dominant negative helix-loop-helix protein (ID2) | 2p25 |
| Gga.447.1.S1_at | -1.51 | 0.00001 | ets variant gene 5 (ets-related molecule) (ETV5) | 3q28 |
| GgaAffx.11738.1.S1_s_at | -2.70 | 0.0002 | early growth response 1 (EGR1) | 5q31.1 |
| <u>Molecular Transducer Activity (7)</u> | | | | |
| Gga.2170.1.S1_at | 1.50 | 0.0150 | growth factor receptor-bound protein 2 (GRB2) | 17q24-q25 |
| Gga.4091.2.S1_a_at | 1.68 | 0.0346 | myosin, light chain kinase (MYLK) | 3q21 |
| GgaAffx.3256.1.S1_at | 3.08 | 0.0056 | growth hormone releasing hormone receptor (GHRHR) | 7p14 |
| GgaAffx.1067.1.S1_at | -1.51 | 0.0401 | urotensin 2 receptor (UTS2R) | 17q25.3 |
| Gga.2875.2.S1_a_at | -1.63 | 0.0180 | activin A receptor, type I (ACVR1) | 2q23-q24 |
| Gga.230.1.S1_at | -2.49 | 0.0005 | cone-type transducin alpha subunit (LOC395425 or GNAT2) | 1p13.1 |
| Gga.9482.1.S1_at | -2.50 | 0.0010 | prepro-urotensin II-related peptide (LOC404534 or pp-URP) | |
| <u>Catalytic Activity (23)</u> | | | | |
| GgaAffx.5983.1.S1_at | 1.56 | 0.0093 | arginyltransferase 1 (RCJMB04_3h21 or ATE1) | 10q26.13 |
| GgaAffx.26624.6.S1_s_at | 1.61 | 0.0493 | transient receptor potential cation channel, subfamily M, member 7 (TRPM7) | 15q21 |
| GgaAffx.6072.1.S1_at | 1.65 | 0.0126 | hypothetical protein LOC771944 (LOC771944) | 2q31.1 |
| Gga.12116.1.S1_s_at | 1.66 | 0.0355 | MYST histone acetyltransferase 4 (MYST4) | 10q22.2 |
| GgaAffx.21815.1.S1_at | 1.93 | 0.0219 | ubiquitin-activating enzyme E1-domain containing 1 (UBE1DC1) | 3q22.1 |
| GgaAffx.9956.3.S1_s_at | 1.98 | 0.0423 | HGF activator (HGFA) | 4p16 |
| Gga.17764.1.S1_s_at | 2.15 | 0.0183 | hect domain and RLD 2 (HERC2) | 15q13 |
| Gga.16371.1.S1_s_at | 2.33 | 0.0427 | subunit of the oligosaccharyltransferase complex, homolog A (STT3A) | 11q23.3 |
| GgaAffx.11519.1.S1_at | 11.82 | 0.0212 | ras homolog gene family, member G (RHOG) | 22q13.1 |
| GgaAffx.26128.1.S1_at | -1.56 | 0.0171 | glucosidase, alpha; acid (GAA) | 7p22.3 |
| Gga.1259.1.S1_at | -1.57 | 0.0103 | histone acetyltransferase MYST (LOC395413) | 11q13 |
| Gga.12387.1.S1_at | -1.59 | 0.0029 | plasma glutamate carboxypeptidase (LOC420238) | 8q22.2 |
| Gga.2112.1.S1_at | -1.59 | 0.0469 | hypothetical LOC417269 | 9q32 |
| Gga.11406.1.S1_a_at | -1.61 | 0.0142 | similar to ADP-ribosylarginine hydrolase (LOC426545) | 3q13.31-q13.33 |
| Gga.4223.1.S1_at | -1.62 | 0.0375 | glutathione S-transferases CL2 (LOC395976) | 1p13.3 |
| GgaAffx.12253.1.S1_at | -1.69 | 0.0454 | N-acetylneuraminate pyruvate lyase (RCJMB04_11j23) | 1q25 |
| Gga.12857.1.S1_s_at | -1.73 | 0.0298 | tumor protein p53 inducible protein 3 (TP53I3) | 2p23.3 |
| Gga.385.1.S1_at | -1.75 | 0.0162 | dual specificity phosphatase 4 (DUSP4 or MKP2) | 8p12-p11 |
| GgaAffx.12031.1.S1_at | -1.76 | 0.0113 | mitogen-activated protein kinase kinase 3 (RCJMB04_8f10) | 17q11.2 |
| Gga.8814.1.S1_s_at | -1.82 | 0.0261 | N-acetylneuraminic acid synthase (NANS) | 9p24.1-p23 |

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|--------------------|-------|--------|---|---------|
| Gga.1226.2.S1_s_at | -1.85 | 0.0247 | paladin (PALD) | 10q22.1 |
| Gga.2124.1.S1_at | -1.86 | 0.0321 | suppression of tumorigenicity 14 (ST14) | 13q32 |
| Gga.459.1.S1_at | -3.22 | 0.0165 | dopachrome tautomerase (DCT) | 13q32 |

Binding (28)

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|-------------------------------|--------------|--------|--|-------------------|
| Gga.985.1.S1_s_at | 1.51 | 0.0084 | heat shock protein 25 (HSP25) | 7q11.23 |
| GgaAffx.21956.1.S1_at | 1.51 | 0.0130 | limkain b1 (KIAA0430) | 16p13.11 |
| GgaAffx.4150.3.S1_s_at | 1.55 | 0.0213 | Rho guanine nucleotide exchange factor 12 (ARHGEF12) | 11q23.3 |
| GgaAffx.855.3.S1_s_at | 1.55 | 0.0260 | stromal antigen 1 (STAG1) | 3q22.3 |
| Gga.12027.1.S1_s_at | 1.58 | 0.0398 | centrosomal protein 110kDa (CEP110) | 9q33-q34 |
| Gga.11317.2.S1_a_at | 1.60 | 0.0350 | fibroblast growth factor 7 (keratinocyte growth factor) (FGF7) | 15q15-q21.1 |
| <u>Gga.169.1.S1_at</u> | <u>1.62</u> | 0.0308 | <u>doublecortin (DCX)</u> | <u>Xq22.3-q23</u> |
| <u>Gga.10094.1.S1_at</u> | <u>1.63</u> | 0.0496 | <u>Neuroigin 1 (NLGN1)</u> | <u>3q26.31</u> |
| GgaAffx.9512.2.S1_s_at | 1.64 | 0.0110 | mindbomb homolog 1 (Drosophila) (MIB1) | 18q11.2 |
| Gga.6267.1.S1_at | 1.69 | 0.0474 | stomatin (STOM) | 9q34.1 |
| GgaAffx.25510.3.S1_at | 1.70 | 0.0032 | splicing factor, arginine/serine-rich 8 (SFRS8) | 12q24.33 |
| GgaAffx.24072.1.S1_at | 1.73 | 0.0324 | spectrin repeat containing, nuclear envelope 1 (SYNE1) | 6q25 |
| <u>GgaAffx.7631.1.S1_at</u> | <u>1.83</u> | 0.0477 | <u>glutamine and serine rich 1 (QSER1)</u> | <u>11p13</u> |
| Gga.15111.1.S1_s_at | 1.86 | 0.0235 | spectrin repeat containing, nuclear envelope 2 (SYNE2) | 14q23.2 |
| GgaAffx.21780.1.S1_s_at | 1.90 | 0.0064 | glucagon (GCG) | 2q36-q37 |
| Gga.4372.1.S1_s_at | 1.91 | 0.0465 | nucleoporin 210kDa-like (RCJMB04_5n23) | 1q21.3 |
| Gga.12278.2.S1_at | 2.00 | 0.0453 | deaminase domain containing 1 (DEADC1) | 6q24.2 |
| GgaAffx.4827.1.S1_at | 4.00 | 0.0412 | oxysterol binding protein 2 (OSBP2) | 22q12.2 |
| GgaAffx.23234.2.S1_s_at | -1.50 | 0.0431 | latent transforming growth factor beta binding protein 1 (LTBP1) | 2p22-p21 |
| GgaAffx.26475.1.S1_s_at | -1.52 | 0.0008 | similar to LAMA5 (LOC428148) | 20q13.2-q13.3 |
| GgaAffx.21668.1.S1_s_at | -1.57 | 0.0355 | bromodomain adjacent to zinc finger domain, 1A (BAZ1A) | 14q12-q13 |
| GgaAffx.1544.1.S1_s_at | -1.58 | 0.0459 | COMM domain containing 10 (RCJMB04_8m8) | 5q23.1 |
| Gga.4900.4.S1_at | -1.60 | 0.0460 | hypothetical protein LOC776458 | |
| GgaAffx.3414.1.S1_at | -1.67 | 0.0252 | zinc finger, DHHC-type containing 21 (RCJMB04_10p19) | 9p22.3 |
| GgaAffx.1590.1.S1_at | -1.84 | 0.0109 | transcription factor AP-2 epsilon (TFAP2E) | 1p34.3 |
| Gga.15234.1.S1_at | -2.03 | 0.0331 | receptor accessory protein 6 (REEP6) | 19p13.3 |
| <u>GgaAffx.2627.2.S1_s_at</u> | <u>-2.64</u> | 0.0464 | <u>grainyhead-like 3 (Drosophila) (GRHL3)</u> | <u>1p36.11</u> |
| GgaAffx.8757.1.S1_at | -7.70 | 0.0247 | CD226 molecule (CD226) | 18q22.3 |

Unknown Function (24)

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|-----------------------------|-------------|--------|--|----------------------|
| <u>Gga.12025.1.S1_at</u> | <u>1.54</u> | 0.0400 | <u>transmembrane and tetratricopeptide repeat containing 3 (TMTC3)</u> | <u>12q21.32</u> |
| Gga.18919.1.S1_a_at | 1.55 | 0.0137 | min alpha-trop (LOC396429) | 1q21.2 |
| Gga.11492.1.S1_at | 1.55 | 0.0266 | sterile alpha motif and leucine zipper containing kinase AZK (ZAK) | 2q24.2 |
| Gga.7673.1.S1_at | 1.59 | 0.0107 | hypothetical protein LOC772256 | |
| GgaAffx.8727.1.S1_at | 1.60 | 0.0179 | hypothetical LOC421014 | 18q22.3 |
| Gga.8877.1.S1_at | 1.61 | 0.0398 | similar to KIAA1218 protein (LOC427847) | |
| GgaAffx.1813.1.S1_at | 1.62 | 0.0479 | similar to KIAA1843 protein (LOC424003) | 2q35 |
| Gga.8001.3.S1_at | 1.63 | 0.0339 | ATP synthase mitochondrial F1 complex assembly factor 1 (ATPAF1) | 1p33-p32.3 |
| GgaAffx.1527.1.S1_at | 1.67 | 0.0031 | similar to KIAA1913 protein (LOC427076) | 6q23.1 |
| Gga.6489.1.S1_at | 1.74 | 0.0327 | similar to Coiled-coil domain containing 57 (LOC417380) | 17q25.3 |
| <u>Gga.18573.1.S1_at</u> | <u>1.75</u> | 0.0416 | <u>similar to EMO2 (LOC416957)</u> | <u>22q12.2-q12.3</u> |
| Gga.8944.3.S1_s_at | 2.16 | 0.0005 | similar to HBxAq transactivated protein 2 (LOC424393) | 1q23.3 |
| GgaAffx.2588.1.S1_x_at | 2.29 | 0.0055 | coiled-coil domain containing 55 (CCDC55) | 17q11.2 |
| Gga.14146.1.S1_at | 2.38 | 0.0417 | similar to delangin isoform A; Nipped-B-like (LOC426031) | 5p13.2 |
| GgaAffx.21534.1.S1_s_at | 2.81 | 0.0182 | LOC417962 | |
| GgaAffx.4864.1.S1_at | 4.03 | 0.0214 | SHQ1 homolog (S. cerevisiae) (SHQ1) | 3p13 |
| Gga.12029.1.S1_at | -1.52 | 0.0381 | mitochondrial ribosomal protein S27 (MRPS27) | 5q13.2 |
| Gga.6358.1.S1_at | -1.52 | 0.0222 | chromosome 9 open reading frame 61 (C9orf61) | 9q13-q21 |
| GgaAffx.20869.1.S1_s_at | -1.55 | 0.0063 | hypothetical protein LOC772254 | 7p15.3 |
| GgaAffx.5700.2.S1_s_at | -1.63 | 0.0421 | CAP-GLY domain containing linker protein family, member 4 (CLIP4) | 2p23.2 |
| GgaAffx.25482.1.S1_at | -1.64 | 0.0320 | similar to Chromosome 18 open reading frame 10 (LOC426891) | 18q12.2 |
| GgaAffx.6436.1.S1_s_at | -1.66 | 0.0088 | zinc finger, SWIM-type containing 5 (ZSWIM5) | 1p34.1 |
| GgaAffx.12328.1.S1_at | -1.71 | 0.0193 | ribonuclease H2, subunit B (RCJMB04_13a19) | 13q14.3 |
| GgaAffx.26602.1.S1_at | -1.87 | 0.0206 | similar to ubiquitin associated protein 2 | 9p13.3 |

Not Annotated (23)

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|-------------------|------|--------|----------------------------------|--|
| Gga.15357.1.S1_at | 1.50 | 0.0430 | Finished cDNA, clone ChEST423e21 | |
| Gga.19439.1.S1_at | 1.51 | 0.0311 | Finished cDNA, clone ChEST643d13 | |
| Gga.16913.1.S1_at | 1.52 | 0.0323 | Finished cDNA, clone ChEST723i16 | |

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| Gga.15003.1.S1_at | 1.62 | 0.0477 | Finished cDNA, clone ChEST1030k5 |
| GgaAffx.20162.1.S1_at | 1.65 | 0.0219 | Finished cDNA, clone ChEST135j5 |
| Gga.11191.1.S1_at | 1.69 | 0.0223 | |
| Gga.19610.1.S1_at | 1.72 | 0.0037 | Finished cDNA, clone ChEST851n17 |
| Gga.15863.1.S1_at | 1.74 | 0.0077 | Finished cDNA, clone ChEST700e5 |
| GgaAffx.7469.1.S1_at | 1.76 | 0.0275 | |
| Gga.1577.1.A1_at | 1.77 | 0.0408 | Transcribed locus |
| GgaAffx.3466.1.S1_at | 1.80 | 0.0225 | |
| Gga.12890.2.S1_at | 4.80 | 0.0475 | Finished cDNA, clone ChEST926m11 |
| Gga.7859.1.S1_at | -1.53 | 0.0050 | Finished cDNA, clone ChEST428n3 |
| Gga.11590.1.S1_a_at | -1.54 | 0.0448 | Finished cDNA, clone ChEST840g1 |
| Gga.9414.1.S1_at | -1.59 | 0.0379 | |
| Gga.16091.1.S1_at | -1.60 | 0.0457 | Finished cDNA, clone ChEST40j2 |
| GgaAffx.20532.1.S1_at | -1.61 | 0.0075 | Finished cDNA, clone ChEST587g22 |
| Gga.18881.1.S1_at | -1.65 | 0.0046 | Finished cDNA, clone ChEST877h2 |
| Gga.14872.1.S1_at | -1.66 | 0.0072 | Finished cDNA, clone ChEST763a6 |
| Gga.2819.1.S1_at | -1.70 | 0.0359 | Finished cDNA, clone ChEST571o14 |
| Gga.19434.1.S1_at | -1.83 | 0.0231 | Finished cDNA, clone ChEST955o8 |
| Gga.10497.1.S1_at | -2.09 | 0.0174 | Finished cDNA, clone ChEST625c5 |
| GgaAffx.20379.1.S1_at | -2.51 | 0.0079 | Finished cDNA, clone ChEST914o3 |