

## EGP Human Gene Mouse Orthologs

Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
1	<a href="#">ADPRT</a>	ribosyltransferase (NAD+; poly(ADP-	<a href="#">142</a>	1 (q41-q42)	Adprt1	1 (98.6 cM)	<a href="#">MGI:1340806</a>
1	<a href="#">ATF3</a>	transcription factor 3	<a href="#">467</a>	1 (q32.3)	Atf3	1 (H6)	<a href="#">MGI:109384</a>
1	<a href="#">BCL2</a>	B-cell CLL/lymphoma 2	<a href="#">596</a>	18 (q21.3)	Bcl2	1 (59.8 cM)	<a href="#">MGI:88138</a>
1	<a href="#">ERCC5</a>	cross-complementing	<a href="#">2073</a>	13 (q22)	Ercc5	1 (26.6 cM)	<a href="#">MGI:103582</a>
1	<a href="#">ESRRG</a>	Estrogen-related receptor gamma	<a href="#">2104</a>	1 (q41)	Esrrg	1 (H5)	<a href="#">MGI:1347056</a>
1	<a href="#">EXO1</a>	Exonuclease 1	<a href="#">9156</a>	1 (q42-q43)	Exo1	1 (97.0 cM)	<a href="#">MGI:1349427</a>
1	<a href="#">IGFBP2</a>	factor binding protein 2, 36kDa	<a href="#">3485</a>	2 (q33-q34)	Igfbp2	1 (36.1 cM)	<a href="#">MGI:96437</a>
1	<a href="#">IGFBP5</a>	factor binding protein 5	<a href="#">3488</a>	2 (q33-q36)	Igfbp5	1 (36.1 cM)	<a href="#">MGI:96440</a>
1	<a href="#">MCM3</a>	minichromosome maintenance	<a href="#">4172</a>	6 (p12)	Mcm3	1 (A3-A5)	<a href="#">MGI:101845</a>
1	<a href="#">MCM6</a>	minichromosome maintenance	<a href="#">4175</a>	2 (q21)	Mcm6	1 (66.6 cM)	<a href="#">MGI:1298227</a>
1	<a href="#">MDM4</a>	3T3 cell double minute 4, p53	<a href="#">4194</a>	1 (q32)	Mdm4	1 (70.0 cM)	<a href="#">MGI:107934</a>
1	<a href="#">MGST3</a>	glutathione S-transferase 3	<a href="#">4259</a>	1 (q23)	Mgst3	1 (H2)	<a href="#">MGI:1913697</a>
1	<a href="#">ORC2L</a>	complex, subunit 2-like (yeast)	<a href="#">4999</a>	2 (q33)	Orc2l	1 (syntenic)	<a href="#">MGI:1328306</a>
1	<a href="#">PLA2G4A</a>	group IVA (cystosolic, calcium-	<a href="#">5321</a>	1 (q25)	Pla2g4a	1 (76.0 cM)	<a href="#">MGI:1195256</a>
1	<a href="#">PMS1</a>	segregation increased 1 (S.	<a href="#">5378</a>	2q31-q33		chr 1	
1	<a href="#">PTGS2</a>	endoperoxide synthase 2	<a href="#">5743</a>	1 (q25.2-q25.3)	Ptgs2	1 (76.2 cM)	<a href="#">MGI:97798</a>

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1	<a href="#">TGFB2</a>	growth factor, beta 2	<a href="#">7042</a>	1 (q41)	Tgfb2	1 (101.5 cM)	<a href="#">MGI:98726</a>
2	<a href="#">API5</a>	Apoptosis inhibitor 5	<a href="#">8539</a>	11 (p12-q12)	Api5	2 (syntenic)	<a href="#">MGI:1888993</a>
2	<a href="#">BLVRA</a>	Biliverdin reductase A	<a href="#">644</a>	7 (p14-cen)	Blvra	2 (62.0 cM)	<a href="#">MGI:88170</a>
2	<a href="#">CDC25B</a>	Cell division cycle 25B	<a href="#">994</a>	20 (p13)	Cdc25b	2 (73.9 cM)	<a href="#">MGI:99701</a>
2	<a href="#">CDK9</a>	kinase 9 (CDC2-related kinase)	<a href="#">1025</a>	9 (q34.1)	Cdk9	2 (syntenic)	<a href="#">MGI:1328368</a>
2	<a href="#">CHST1</a>	(keratan sulfate Gal-6) sulfotransferase	<a href="#">8534</a>	11 (p11.2-p11.1)	Chst1	2 (D-E1)	<a href="#">MGI:1924219</a>
2	<a href="#">CTNND1</a>	associated protein), delta 1	<a href="#">1500</a>	11 (q11)	Catns	2 (47.8 cM)	<a href="#">MGI:105100</a>
2	<a href="#">DDB2</a>	DNA binding protein 2, 48kDa	<a href="#">1643</a>	11 (p12-p11)	Ddb2	2 (E1)	<a href="#">MGI:1355314</a>
2	<a href="#">E2F1</a>	E2F transcription factor 1	<a href="#">1869</a>	20 (q11.2)	E2f1	2 (84.0 cM)	<a href="#">MGI:101941</a>
2	<a href="#">EDN3</a>	Endothelin 3	<a href="#">1908</a>	20 (q13.2-q13.3)	Edn3	2 (104.0 cM)	<a href="#">MGI:95285</a>
2	<a href="#">GAD1</a>	decarboxylase 1 (brain, 67kDa)	<a href="#">2571</a>	2 (q31)	Gad1	2 (43.0 cM)	<a href="#">MGI:95632</a>
2	<a href="#">GAD2</a>	decarboxylase 2 (pancreatic islets	<a href="#">2572</a>	10 (p11.23)	Gad2	2 (9.0 cM)	<a href="#">MGI:95634</a>
2	<a href="#">MYBPC3</a>	Myosin binding protein C, cardiac	<a href="#">4607</a>	11 (p11.2)	Mybpc3	2 (E1)	<a href="#">MGI:102844</a>
2	<a href="#">ORC4L</a>	colon cancer, nonpolyposis type 1	<a href="#">4436</a>	2 (q22-q23)	Orc4l	2 (syntenic)	<a href="#">MGI:1347043</a>
2	<a href="#">PAX1</a>	Paired box gene 1	<a href="#">5075</a>	20 (p11.2)	Pax1	2 (82.0 cM)	<a href="#">MGI:97485</a>
2	<a href="#">PCNA</a>	Proliferating cell nuclear antigen	<a href="#">5111</a>	20 (pter-p12)	Pcna	2 (75.0 cM)	<a href="#">MGI:97503</a>

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2	<a href="#">RAD51</a>	(RecA homolog, E. coli) (S. cerevisiae)	<a href="#">5888</a>	15 (q15.1)	Rad51	2 (66.8 cM)	<a href="#">MGI:97890</a>
2	<a href="#">RAG1</a>	Recombination activating gene 1	<a href="#">5896</a>	11 (p13)	Rag1	2 (56.0 cM)	<a href="#">MGI:97848</a>
2	<a href="#">TAF4</a>	polymerase II, TATA box binding	<a href="#">6874</a>	20 (q13.33)	Taf4a	2 (H4)	<a href="#">MGI:2152346</a>
2	<a href="#">TNFRSF5</a>	factor receptor superfamily,	<a href="#">958</a>	20 (q12-q13.2)	Tnfrsf5	2 (97.0 cM)	<a href="#">MGI:88336</a>
2	<a href="#">WT1</a>	Wilms tumor 1	<a href="#">7490</a>	11 (p13)	Wt1	2 (58.0 cM)	<a href="#">MGI:98968</a>
3	<a href="#">ARNT</a>	receptor nuclear translocator	<a href="#">405</a>	1 (q21)	Arnt	3 (47.9 cM)	<a href="#">MGI:88071</a>
3	<a href="#">CASP6</a>	apoptosis-related cysteine protease	<a href="#">839</a>	4 (q25)	Casp6	3 (H1)	<a href="#">MGI:1312921</a>
3	<a href="#">CCNA2</a>	Cyclin A2	<a href="#">890</a>	4 (q25-q31)	Ccna2	3 (19.2 cM)	<a href="#">MGI:108069</a>
3	<a href="#">CDC14A</a>	cycle 14 homolog A (S. cerevisiae)	<a href="#">8556</a>	1 (p21)	Cdc14a	3 (syntenic)	<a href="#">MGI:2442676</a>
3	<a href="#">CYR61</a>	angiogenic inducer, 61	<a href="#">3491</a>	1 (p31-p22)	Cyr61	3 (72.9 cM)	<a href="#">MGI:88613</a>
3	<a href="#">E2F5</a>	factor 5, p130-binding	<a href="#">1875</a>	8 (q21.2)	E2f5	3 (syntenic)	<a href="#">MGI:105091</a>
3	<a href="#">EGF</a>	factor (beta-urogastrone)	<a href="#">1950</a>	4 (q25)	Egf	3 (65.2 cM)	<a href="#">MGI:95290</a>
3	<a href="#">GCLM</a>	ligase, modifier subunit	<a href="#">2730</a>	1 (p22.1)	Gclm	3 (53.5 cM)	<a href="#">MGI:104995</a>
3	<a href="#">MGST2</a>	glutathione S-transferase 2	<a href="#">4258</a>	4 (q28.3)	Mgst2	3 (syntenic)	<a href="#">MGI:2448481</a>
3	<a href="#">MSH4</a>	mutS homolog 4 (E. coli)	<a href="#">4438</a>	1 (p31)	Msh4	3 (syntenic)	<a href="#">MGI:1860077</a>
3	<a href="#">MUC1</a>	Mucin 1, transmembrane	<a href="#">4582</a>	1 (q21)	Muc1	3 (44.8 cM)	<a href="#">MGI:97231</a>

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3	<a href="#">NFKB1</a>	kappa light polypeptide gene	<a href="#">4790</a>	4 (q24)	Nfkb1	3 (68.9 cM)	<a href="#">MGI:97312</a>
3	<a href="#">NRAS</a>	viral (v-ras) oncogene homolog	<a href="#">4893</a>	1 (p13.2)	Nras	3 (48.5 cM)	<a href="#">MGI:97376</a>
3	<a href="#">PKLR</a>	Pyruvate kinase, liver and RBC	<a href="#">5313</a>	1 (q21)	Pklr	3 (44.0 cM)	<a href="#">MGI:97604</a>
3	<a href="#">PPID</a>	isomerase D (cyclophilin D)	<a href="#">5481</a>	4 (q31.3)	Ppid	3 (F1)	<a href="#">MGI:1914988</a>
3	<a href="#">SPRR1A</a>	Small proline-rich protein 1A	<a href="#">6698</a>	1 (q21-q22)	Sprr1a	3 (45.2 cM)	<a href="#">MGI:106660</a>
3	<a href="#">SPRR1B</a>	Small proline-rich protein 1B (cornifin)	<a href="#">6699</a>	1 (q21-q22)	Sprr1b	3 (45.2 cM)	<a href="#">MGI:106659</a>
4	<a href="#">ALAD</a>	Aminolevulinate, delta-, dehydratase	<a href="#">210</a>	9 (q33.1)	Alad	4 (30.6 cM)	<a href="#">MGI:96853</a>
4	<a href="#">CASP9</a>	apoptosis-related cysteine protease	<a href="#">842</a>	1 (p36.3-p36.1)	Casp9	4 (E1)	<a href="#">MGI:1277950</a>
4	<a href="#">CDC42</a>	42 (GTP binding protein, 25kDa)	<a href="#">998</a>	1 (p36.1)	Cdc42	4 (66.75 cM)	<a href="#">MGI:106211</a>
4	<a href="#">CDKN2A</a>	kinase inhibitor 2A (melanoma, p16,	<a href="#">1029</a>	9 (p21)	Cdkn2a	4 (42.7 cM)	<a href="#">MGI:104738</a>
4	<a href="#">CDKN2B</a>	kinase inhibitor 2B (p15, inhibits CDK4)	<a href="#">1030</a>	9 (p21)	Cdkn2b	4 (42.7 cM)	<a href="#">MGI:104737</a>
4	<a href="#">CDKN2C</a>	kinase inhibitor 2C (p18, inhibits CDK4)	<a href="#">1031</a>	1 (p32)	Cdkn2c	4 (24.7 cM)	<a href="#">MGI:105388</a>
4	<a href="#">CTNNAL1</a>	associated protein), alpha-like 1	<a href="#">8727</a>	9 (q31.2)	Catnal1	4 (C1)	<a href="#">MGI:1859649</a>
4	<a href="#">CYP2J2</a>	family 2, subfamily J, polypeptide 2	<a href="#">1573</a>	1 (p31.3-p31.2)	Cyp2j6	4 (46.5 cM)	<a href="#">MGI:1270148</a>
4	<a href="#">E2F2</a>	E2F transcription factor 2	<a href="#">1870</a>	1 (p36)	E2f2	4 (D3)	<a href="#">MGI:1096341</a>
4	<a href="#">EDN2</a>	Endothelin 2	<a href="#">1907</a>	1 (p34)	Edn2	4 (syntenic)	<a href="#">MGI:95284</a>

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4	<a href="#">JUN</a>	17 oncogene homolog (avian)	<a href="#">3725</a>	1 (p32-p31)	Jun	4 (44.6 cM)	<a href="#">MGI:96646</a>
4	<a href="#">MLP</a>	MARCKS-like protein	<a href="#">65108</a>	1 (p35.1)	Mlp	4 (59.0 cM)	<a href="#">MGI:97143</a>
4	<a href="#">MTHFR</a>	methylenetetrahydr ofolate reductase	<a href="#">4524</a>	1 (p36.3)	Mthfr	4 (76.4 cM)	<a href="#">MGI:106639</a>
4	<a href="#">MUTYH</a>	mutY homolog (E. coli)	<a href="#">4595</a>	1 (p34.3-p32.1)	Mutyh	4 (C7)	<a href="#">MGI:1917853</a>
4	<a href="#">NBS1</a>	Nijmegen breakage syndrome 1 (nibrin)	<a href="#">4683</a>	8 (q21)	Nbn	4 (A)	<a href="#">MGI:1351625</a>
4	<a href="#">ORC3L</a>	complex, subunit 4-like (yeast)	<a href="#">5000</a>	6 (q14.3-q16.1)	Orc3l	4 (A3)	<a href="#">MGI:1354944</a>
4	<a href="#">PLA2G2A</a>	group IIA (platelets, synovial fluid)	<a href="#">5320</a>	1 (p35)	Pla2g2a	4 (68.0 cM)	<a href="#">MGI:104642</a>
4	<a href="#">PLA2G5</a>	Phospholipase A2, group V	<a href="#">5322</a>	1 (p36-p34)	Pla2g5	4 (68.0 cM)	<a href="#">MGI:101899</a>
4	<a href="#">PLK3</a>	Polo-like kinase 3 (Drosophila)	<a href="#">1263</a>	1 (p34.1)	Plk3	4 (syntenic)	<a href="#">MGI:109604</a>
4	<a href="#">PTCH2</a>	Patched homolog 2 (Drosophila)	<a href="#">8643</a>	1 (p33-p34)	Ptch2	4 (56.5 cM)	<a href="#">MGI:1095405</a>
4	<a href="#">RAD23B</a>	RAD23 homolog B (S. cerevisiae)	<a href="#">5887</a>	9 (q31.2)	Rad23b	4 (B3)	<a href="#">MGI:105128</a>
4	<a href="#">TAF12</a>	polymerase II, TATA box binding	<a href="#">6883</a>	1 (p35.3)	Taf12	4 (syntenic)	<a href="#">MGI:1913714</a>
4	<a href="#">TGFB1</a>	growth factor, beta receptor I (activin A	<a href="#">7046</a>	9 (q22)	Tgfb1	4 (19.3 cM)	<a href="#">MGI:98728</a>
4	<a href="#">TNFRSF14</a>	factor receptor superfamily,	<a href="#">8764</a>	1 (p36.3-p36.2)	Tnfrsf14	4 (syntenic)	<a href="#">MGI:2675303</a>
4	<a href="#">TNFRSF1B</a>	factor receptor superfamily,	<a href="#">7133</a>	1 (p36.3-p36.2)	Tnfrsf1b	4 (75.5 cM)	<a href="#">MGI:1314883</a>
4	<a href="#">TNFRSF25</a>	factor superfamily, member 25)	<a href="#">8718</a>	1 (p36.2)	Tnfrsf25	4 (E1)	<a href="#">MGI:1934667</a>

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4	<a href="#">TNFRSF8</a>	factor receptor superfamily,	<a href="#">943</a>	1 (p36)	Tnfrsf8	4 (75.5 cM)	<a href="#">MGI:99908</a>
4	<a href="#">TNFRSF9</a>	factor receptor superfamily,	<a href="#">3604</a>	1 (p36)	Tnfrsf9	4 (75.5 cM)	<a href="#">MGI:1101059</a>
4	<a href="#">TXN</a>	Thioredoxin	<a href="#">7295</a>	9 (q31)	Txn1	4 (24.6 cM)	<a href="#">MGI:98874</a>
4	<a href="#">XPA</a>	pigmentosum, complementation	<a href="#">7507</a>	9 (q22.3)	Xpa	4 (21.5 cM)	<a href="#">MGI:99135</a>
5	<a href="#">ACTB</a>	Actin, beta	<a href="#">60</a>	7 (p15-p12)	Actb	5 (80.0 cM)	<a href="#">MGI:87904</a>
5	<a href="#">AREG</a>	(schwannoma-derived growth	<a href="#">374</a>	4 (q13-q21)	Areg	5 (51.0 cM)	<a href="#">MGI:88068</a>
5	<a href="#">BRCA2</a>	Breast cancer 2, early onset	<a href="#">675</a>	13 (q12.3)	Brca2	5 (84.0 cM)	<a href="#">MGI:109337</a>
5	<a href="#">CCNG2</a>	Cyclin G2	<a href="#">901</a>	4 (q21.1)	Ccng2	5 (E3.3-F1.3)	<a href="#">MGI:1095734</a>
5	<a href="#">CCNI</a>	Cyclin I	<a href="#">10983</a>	4 (q21.1)	Ccni	5 (E3.3 - F1.3)	<a href="#">MGI:1341077</a>
5	<a href="#">CDC7</a>	cycle 7 (S. cerevisiae)	<a href="#">8317</a>	1 (p22)	Cdc7	5 (E)	<a href="#">MGI:1309511</a>
5	<a href="#">CDK6</a>	Cyclin-dependent kinase 6	<a href="#">1021</a>	7 (q21-q22)	Cdk6	5 (0.0 cM)	<a href="#">MGI:1277162</a>
5	<a href="#">FGFR3</a>	factor receptor 3 (achondroplasia,	<a href="#">2261</a>	4 (p16.3)	Fgfr3	5 (20.0 cM)	<a href="#">MGI:95524</a>
5	<a href="#">GCKR</a>	(hexokinase 4) regulatory protein	<a href="#">2646</a>	2 (p23)	Gckr	5 (18.1 cM)	<a href="#">MGI:1096345</a>
5	<a href="#">GTF2H3</a>	transcription factor IIH, polypeptide 3	<a href="#">2967</a>	12 (q24.31)	Gtf2h3	5 (68.0 cM)	<a href="#">MGI:1277143</a>
5	<a href="#">HGF</a>	factor (hepapoietin A; scatter factor)	<a href="#">3082</a>	7 (q21.1)	Hgf	5 (4.0 cM)	<a href="#">MGI:96079</a>
5	<a href="#">IGFBP7</a>	factor binding protein 7	<a href="#">3490</a>	4 (q12)	Igfbp7	5 (syntenic)	<a href="#">MGI:1352480</a>

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5	<a href="#">NOS1</a>	synthase 1 (neuronal)	<a href="#">4842</a>	12 (q24.2-q24.31)	Nos1	5 (65.0 cM)	<a href="#">MGI:97360</a>
5	<a href="#">PLA2G1B</a>	Phospholipase A2, group IB (pancreas)	<a href="#">5319</a>	12 (q23-q24.1)	Pla2g1b	5 (F1-G1.1)	<a href="#">MGI:101842</a>
5	<a href="#">POLE</a>	Polymerase (DNA directed), epsilon	<a href="#">5426</a>	12 (q24.3)	Pole	5 (56.0 cM)	<a href="#">MGI:1196391</a>
5	<a href="#">RFC1</a>	(activator 1) 1, 145kDa	<a href="#">5981</a>	4 (p14-p13)	Recc1	5 (39.0 cM)	<a href="#">MGI:97891</a>
5	<a href="#">RFC2</a>	(activator 1) 2 (40kD)	<a href="#">5982</a>	7 (q11.23)	Rfc2	5 (74.0 cM)	<a href="#">MGI:1341868</a>
5	<a href="#">RFC3</a>	(activator 1) 3 (38kD)	<a href="#">5983</a>	13 (q12.3-q13)	Rfc3	5 (G3)	<a href="#">MGI:1916513</a>
5	<a href="#">RFC5</a>	(activator 1) 5, 36.5kDa	<a href="#">5985</a>	12 (q24.2-q24.3)	Rfc5	5 (F)	<a href="#">MGI:1919401</a>
5	<a href="#">SHH</a>	homolog (Drosophila)	<a href="#">6469</a>	7 (q36)	Shh	5 (16.0 cM)	<a href="#">MGI:98297</a>
5	<a href="#">STE</a>	Sultotransferase, estrogen-preferring	<a href="#">6783</a>	4 (q13.1)	Sult1e1	5 (44.0 cM)	<a href="#">MGI:98431</a>
5	<a href="#">TAF2E</a>	polymerase II, TATA box binding	<a href="#">6878</a>	7 (q22.1)	Taf6	5 (syntenic)	<a href="#">MGI:109129</a>
5	<a href="#">UNG</a>	Uracil-DNA glycosylase	<a href="#">7374</a>	12 (q23-q24.1)	Ung	5 (F)	<a href="#">MGI:109352</a>
5	<a href="#">XRCC2</a>	complementing defective repair in	<a href="#">7516</a>	7 (q36.1)	Xrcc2	5 (A3)	<a href="#">MGI:1927345</a>
6	<a href="#">BID</a>	domain death agonist	<a href="#">637</a>	22 (q11.1)	Bid	6 (54.0 cM)	<a href="#">MGI:108093</a>
6	<a href="#">CASP2</a>	apoptosis-related cysteine protease	<a href="#">835</a>	7 (q34-q35)	Casp2	6 (20.5 cM)	<a href="#">MGI:97295</a>
6	<a href="#">CCND2</a>	Cyclin D2	<a href="#">894</a>	12 (p13)	Ccnd2	6 (61.1 cM)	<a href="#">MGI:88314</a>
6	<a href="#">CDKN1B</a>	kinase inhibitor 1B (p27, Kip1)	<a href="#">1027</a>	12 (p13.1-p12)	Cdkn1b	6 (62.0 cM)	<a href="#">MGI:104565</a>

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6	<a href="#">FGF23</a>	Fibroblast growth factor 23	<a href="#">8074</a>	12 (p13.3)	Fgf23	6 (syntenic)	<a href="#">MGI:1891427</a>
6	<a href="#">FGF6</a>	Fibroblast growth factor 6	<a href="#">2251</a>	12 (p13)	Fgf6	6 (61.1 cM)	<a href="#">MGI:95520</a>
6	<a href="#">GADD45A</a>	DNA-damage-inducible, alpha	<a href="#">1647</a>	1 (p31.2-p31.1)	Gadd45a	6 (syntenic)	<a href="#">MGI:107799</a>
6	<a href="#">GAPD</a>	phosphate dehydrogenase	<a href="#">2597</a>	12 (p13)	Gapd	6 (56.0 cM)	<a href="#">MGI:95640</a>
6	<a href="#">HK2</a>	Hexokinase 2	<a href="#">3099</a>	2 (p13)	Hk2	6 (34.5 cM)	<a href="#">MGI:1315197</a>
6	<a href="#">MBD4</a>	Methyl-CpG binding domain protein 4	<a href="#">8930</a>	3 (q21-q22)	Mbd4	6 (50.3 cM)	<a href="#">MGI:1333850</a>
6	<a href="#">MCM2</a>	minichromosome maintenance	<a href="#">4171</a>	3 (q21)	Mcm2	6 (syntenic)	<a href="#">MGI:105380</a>
6	<a href="#">MGST1</a>	glutathione S-transferase 1	<a href="#">4257</a>	12 (p12.3-p12.1)	Mgst1	6 (G1)	<a href="#">MGI:1913850</a>
6	<a href="#">OGG1</a>	8-oxoguanine DNA glycosylase	<a href="#">4968</a>	3 (p26.2)	Ogg1	6 (48.0 cM)	<a href="#">MGI:1097693</a>
6	<a href="#">RAD52</a>	RAD52 homolog (S. cerevisiae)	<a href="#">5893</a>	12 (p13-p12.2)	Rad52	6 (55.0 cM)	<a href="#">MGI:101949</a>
6	<a href="#">RAF1</a>	leukemia viral oncogene homolog	<a href="#">5894</a>	3 (p25)	Raf1	6 (52.5 cM)	<a href="#">MGI:97847</a>
6	<a href="#">TNFRSF7</a>	factor receptor superfamily,	<a href="#">939</a>	12 (p13)	Tnfrsf7	6 (60.35 cM)	<a href="#">MGI:88326</a>
6	<a href="#">XPC</a>	pigmentosum, complementation	<a href="#">7508</a>	3 (p25)	Xpc	6 (D)	<a href="#">MGI:103557</a>
7	<a href="#">AKT2</a>	thymoma viral oncogene homolog	<a href="#">208</a>	19 (q13.1-q13.2)	Akt2	7 (6.5 cM)	<a href="#">MGI:104874</a>
7	<a href="#">BAX</a>	BCL2-associated X protein	<a href="#">581</a>	19 (q13.3-q13.4)	Bax	7 (23.0 cM)	<a href="#">MGI:99702</a>
7	<a href="#">BLVRB</a>	B (flavin reductase (NADPH))	<a href="#">645</a>	19 (q13.1-q13.2)	Blvrb	7 (syntenic)	<a href="#">MGI:2385271</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
7	<a href="#">CCND1</a>	parathyroid adenomatosis 1)	<a href="#">595</a>	11 (q13)	Ccnd1	7 (72.3 cM)	<a href="#">MGI:88313</a>
7	<a href="#">CCNE1</a>	Cyclin E1	<a href="#">898</a>	19 (q12)	Ccne1	7 (16.0 cM)	<a href="#">MGI:88316</a>
7	<a href="#">ERCC1</a>	Excision repair cross-	<a href="#">2067</a>	19 (q13.2-q13.3)	Ercc1	7 (4.0 cM)	<a href="#">MGI:95412</a>
7	<a href="#">ERCC2</a>	cross-complementing	<a href="#">2068</a>	19 (q13.3)	Ercc2	7 (4.0 cM)	<a href="#">MGI:95413</a>
7	<a href="#">GPI</a>	Glucose phosphate isomerase	<a href="#">2821</a>	19 (q13.1)	Gpi1	7 (11.0 cM)	<a href="#">MGI:95797</a>
7	<a href="#">GTF2H1</a>	transcription factor IIH, polypeptide 1	<a href="#">2965</a>	11 (p15.1-p14)	Gtf2h1	7 (syntenic)	<a href="#">MGI:1277216</a>
7	<a href="#">IGF1R</a>	Insulin-like growth factor 1 receptor	<a href="#">3480</a>	15 (q26.3)	Igf1r	7 (33.0 cM)	<a href="#">MGI:96433</a>
7	<a href="#">LIG1</a>	Ligase I, DNA, ATP-dependent	<a href="#">3978</a>	19 (q13.2-q13.3)	Lig1	7 (4.0 cM)	<a href="#">MGI:101789</a>
7	<a href="#">PLA2G4C</a>	group IVC (cytosolic, calcium-	<a href="#">8605</a>	19 (q13.3)	D7Ert445e	7 (4.0 cM)	<a href="#">MGI:1196403</a>
7	<a href="#">PNKP</a>	Polynucleotide kinase 3'-phosphate	<a href="#">11284</a>	19 (q13.3-q13.4)	Pnkp	7 (B2)	<a href="#">MGI:1891698</a>
7	<a href="#">POLD1</a>	directed), delta 1, catalytic subunit	<a href="#">5424</a>	19 (q13.3)	Pold1	7 (23.0 cM)	<a href="#">MGI:97741</a>
7	<a href="#">POLG</a>	Polymerase (DNA directed), gamma	<a href="#">5428</a>	15 (q25)	Polg	7 (E)	<a href="#">MGI:1196389</a>
7	<a href="#">SEI1</a>	CDK4-binding protein p34SEI1	<a href="#">29950</a>	19 (q13.1-q13.2)	Sertad1	7 (syntenic)	<a href="#">MGI:1913438</a>
7	<a href="#">TAF2H</a>	POLYMERASE II, TATA box binding	<a href="#">6881</a>	11 (p15.3)	Taf10	7 (F1)	<a href="#">MGI:1346320</a>
7	<a href="#">XRCC1</a>	complementing defective repair in	<a href="#">7515</a>	19 (q13.2)	Xrcc1	7 (5.5 cM)	<a href="#">MGI:99137</a>
7	<a href="#">ZFP36</a>	36, C3H type, homolog (mouse)	<a href="#">7538</a>	19 (q13.1)	Zfp36	7 (10.2 cM)	<a href="#">MGI:99180</a>

## EGP Human Gene Mouse Orthologs

Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
8	<a href="#">APRT</a>	phosphoribosyltransferase	<a href="#">353</a>	16 (q24)	Aprt	8 (67.0 cM)	<a href="#">MGI:88061</a>
8	<a href="#">ASNA1</a>	transporter, ATP-binding, homolog 1	<a href="#">439</a>	19 (q13.3)	Asna1	8 (C3-D1)	<a href="#">MGI:1928379</a>
8	<a href="#">CASP3</a>	apoptosis-related cysteine protease	<a href="#">836</a>	4 (q34)	Casp3	8 (26.0 cM)	<a href="#">MGI:107739</a>
8	<a href="#">CDC16</a>	cycle 16 homolog (S. cerevisiae)	<a href="#">8881</a>	13 (q34)	Cdc16	8 (A2)	<a href="#">MGI:1917207</a>
8	<a href="#">E2F4</a>	factor 4, p107/p130-binding	<a href="#">1874</a>	16 (q21-q22)	E2f4	8 (syntenic)	<a href="#">MGI:103012</a>
8	<a href="#">EDNRA</a>	Endothelin receptor type A	<a href="#">1909</a>	4 (q31.22-q31.23)	Ednra	8 (C2)	<a href="#">MGI:105923</a>
8	<a href="#">FANCA</a>	complementation group A	<a href="#">2175</a>	16 (q24.3)	Fanca	8 (syntenic)	<a href="#">MGI:1341823</a>
8	<a href="#">FGF20</a>	Fibroblast growth factor 20	<a href="#">26281</a>	8 (p22-p21.3)	Fgf20	8 (B1.2)	<a href="#">MGI:1891346</a>
8	<a href="#">FGFR1</a>	factor receptor 1 (fms-related)	<a href="#">2260</a>	8 (p11.2-p11.1)	Fgfr1	8 (10.0 cM)	<a href="#">MGI:95522</a>
8	<a href="#">GCSH</a>	system protein H (aminomethyl)	<a href="#">2653</a>	16q23.2		<b>chr 8</b>	
8	<a href="#">GSR</a>	Glutathione reductase	<a href="#">2936</a>	8 (p21.1)	Gsr	8 (18.0 cM)	<a href="#">MGI:95804</a>
8	<a href="#">HCNP</a>	HCNP protein; XPA-binding protein 2	<a href="#">56949</a>	19 (p13.2)	Xab2	8 (syntenic)	<a href="#">MGI:1914689</a>
8	<a href="#">HSD17B2</a>	beta) dehydrogenase 2	<a href="#">3294</a>	16 (q24.1-q24.2)	Hsd17b2	8 (syntenic)	<a href="#">MGI:1096386</a>
8	<a href="#">JUNB</a>	jun B proto-oncogene	<a href="#">3726</a>	19 (p13.2)	Junb	8 (38.6 cM)	<a href="#">MGI:96647</a>
8	<a href="#">LIG4</a>	Ligase IV, DNA, ATP-dependent	<a href="#">3981</a>	13 (q33-q34)	Lig4	8 (syntenic)	<a href="#">MGI:1335098</a>
8	<a href="#">MCM5</a>	minichromosome maintenance	<a href="#">4174</a>	22 (q13.1)	Mcm5	8 (syntenic)	<a href="#">MGI:103197</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
8	<a href="#">MMP2</a>	metalloproteinase 2 (gelatinase A,	<a href="#">4313</a>	16 (q13-q21)	Mmp2	8 (44.0 cM)	<a href="#">MGI:97009</a>
8	<a href="#">NAT1</a>	1 (arylamine N-acetyltransferase)	<a href="#">9</a>	8 (p23.1-p21.3)	Nat1	8 (31.0 cM)	<a href="#">MGI:97279</a>
8	<a href="#">NAT2</a>	2 (arylamine N-acetyltransferase)	<a href="#">10</a>	8 (p22)	Nat2	8 (31.0 cM)	<a href="#">MGI:109201</a>
8	<a href="#">NQO1</a>	dehydrogenase, quinone 1	<a href="#">1728</a>	16 (q22.1)	Nqo1	8 (53.3 cM)	<a href="#">MGI:103187</a>
8	<a href="#">POLB</a>	Polymerase (DNA directed), beta	<a href="#">5423</a>	8 (p11.2)	Polb	8 (8.0 cM)	<a href="#">MGI:97740</a>
8	<a href="#">RAD23A</a>	RAD23 homolog A (S. cerevisiae)	<a href="#">5886</a>	19 (p13.2)	Rad23a	8 (C3)	<a href="#">MGI:105126</a>
8	<a href="#">TAF1C</a>	protein (TBP)-associated factor,	<a href="#">9013</a>	16 (q24)	Taf1c	8 (E1)	<a href="#">MGI:109576</a>
8	<a href="#">TFDP1</a>	Transcription factor Dp-1	<a href="#">7027</a>	13 (q34)	Tfdp1	8 (A1-A3)	<a href="#">MGI:101934</a>
8	<a href="#">WRN</a>	Werner syndrome	<a href="#">7486</a>	8 (p12-p11.2)	Wrn	8 (20.0 cM)	<a href="#">MGI:109635</a>
9	<a href="#">ATM</a>	telangiectasia mutated (includes	<a href="#">472</a>	11 (q22-q23)	Atm	9 (30.0 cM)	<a href="#">MGI:107202</a>
9	<a href="#">BIRC3</a>	Baculoviral IAP repeat-containing 3	<a href="#">330</a>	11 (q22)	Birc3	9 (A2)	<a href="#">MGI:1197007</a>
9	<a href="#">BNIP2</a>	E1B 19kDa interacting protein 2	<a href="#">663</a>	15 (q22.2)	Bnip2	9 (syntenic)	<a href="#">MGI:109327</a>
9	<a href="#">CCK</a>	Cholecystokinin	<a href="#">885</a>	3 (p22-p21.3)	Cck	9 (71.0 cM)	<a href="#">MGI:88297</a>
9	<a href="#">CDC25A</a>	Cell division cycle 25A	<a href="#">993</a>	3 (p21)	Cdc25a	9 (62.0 cM)	<a href="#">MGI:103198</a>
9	<a href="#">CHEK1</a>	homolog (S. pombe)	<a href="#">1111</a>	11 (q24-q24)	Chek1	9 (A5.3)	<a href="#">MGI:1202065</a>
9	<a href="#">CTNNB1</a>	associated protein), beta 1, 88kDa	<a href="#">1499</a>	3 (p21)	Catnb	9 (72.0 cM)	<a href="#">MGI:88276</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
9	<a href="#">GCLC</a>	ligase, catalytic subunit	<a href="#">2729</a>	6 (p12)	Gclc	9 (42.0 cM)	<a href="#">MGI:104990</a>
9	<a href="#">GPX1</a>	Glutathione peroxidase 1	<a href="#">2876</a>	3 (p21.3)	Gpx1	9 (57.0 cM)	<a href="#">MGI:104887</a>
9	<a href="#">HSPB2</a>	Heat shock 27kDa protein 2	<a href="#">3316</a>	11 (q22-q23)	Hspb2	9 (29.0 cM)	<a href="#">MGI:1916503</a>
9	<a href="#">MLH1</a>	colon cancer, nonpolyposis type 2	<a href="#">4292</a>	3 (p21.3)	Mlh1	9 (62.0 cM)	<a href="#">MGI:101938</a>
9	<a href="#">MLL</a>	mixed-lineage leukemia (trithorax	<a href="#">4297</a>	11 (q23)	Mll	9 (26.0 cM)	<a href="#">MGI:96995</a>
9	<a href="#">MMP1</a>	metalloproteinase 1 (interstitial	<a href="#">4312</a>	11 (q22.3)	Mmp1a	9 (A1-A2)	<a href="#">MGI:1933846</a>
9	<a href="#">MMP10</a>	metalloproteinase 10 (stromelysin 2)	<a href="#">4319</a>	11 (q22.3)	Mmp10	9 (syntenic)	<a href="#">MGI:97007</a>
9	<a href="#">MMP13</a>	metalloproteinase 13 (collagenase 3)	<a href="#">4322</a>	11 (q22.3)	Mmp13	9 (A1-A2)	<a href="#">MGI:1340026</a>
9	<a href="#">MMP20</a>	metalloproteinase 20 (enamelysin)	<a href="#">9313</a>	11 (q22.3)	Mmp20	9 (syntenic)	<a href="#">MGI:1353466</a>
9	<a href="#">MRE11A</a>	recombination 11 homolog A (S.	<a href="#">4361</a>	11 (q21)	Mre11a	9 (syntenic)	<a href="#">MGI:1100512</a>
9	<a href="#">NEIL1</a>	nei endonuclease VIII-like 1 (E. coli)	<a href="#">79661</a>	15 (q23)	Neil1	9 (C)	<a href="#">MGI:1920024</a>
9	<a href="#">PGR</a>	Progesterone receptor	<a href="#">5241</a>	11 (q22-q23)	Pgr	9 (syntenic)	<a href="#">MGI:97567</a>
9	<a href="#">PKM2</a>	Pyruvate kinase, muscle	<a href="#">5315</a>	15 (q22)	Pkm2	9 (52.0 cM)	<a href="#">MGI:97591</a>
9	<a href="#">TFDP2</a>	Dp-2 (E2F dimerization partner	<a href="#">7029</a>	3 (q23)	Tfdp2	9 (E4)	<a href="#">MGI:107167</a>
9	<a href="#">TGFB2</a>	growth factor, beta receptor II	<a href="#">7048</a>	3 (p22)	Tgfbr2	9 (69.0 cM)	<a href="#">MGI:98729</a>
9	<a href="#">TREX1</a>	Three prime repair exonuclease 1	<a href="#">11277</a>	3 (p21.3-p21.2)	Trex1	9 (syntenic)	<a href="#">MGI:1328317</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
10	<a href="#">CDC2</a>	G1 to S and G2 to M	<a href="#">983</a>	10 (q21.1)	Cdc2a	10 (38.0 cM)	<a href="#">MGI:88351</a>
10	<a href="#">CDC34</a>	Cell division cycle 34	<a href="#">997</a>	19 (p13.3)	Cdc34	10 (43.0 cM)	<a href="#">MGI:102657</a>
10	<a href="#">CDK2</a>	Cyclin-dependent kinase 2	<a href="#">1017</a>	12 (q13)	Cdk2	10 (D3)	<a href="#">MGI:104772</a>
10	<a href="#">CDK4</a>	Cyclin-dependent kinase 4	<a href="#">1019</a>	12 (q14)	Cdk4	10 (D3)	<a href="#">MGI:88357</a>
10	<a href="#">CYP27B1</a>	family 27, subfamily B, polypeptide 1	<a href="#">1594</a>	12 (q13.1-q13.3)	Cyp27b1	10 (syntenic)	<a href="#">MGI:1098274</a>
10	<a href="#">ELA2</a>	Elastase 2, neutrophil	<a href="#">1991</a>	19 (p13.3)	Ela2	10 (syntenic)	<a href="#">MGI:95316</a>
10	<a href="#">ESR1</a>	Estrogen receptor 1	<a href="#">2099</a>	6 (q25.1)	Esr1	10 (12.0 cM)	<a href="#">MGI:1352467</a>
10	<a href="#">FGF22</a>	Fibroblast growth factor 22	<a href="#">27006</a>	19 (p13.3)	Fgf22	10 (syntenic)	<a href="#">MGI:1914362</a>
10	<a href="#">GADD45B</a>	DNA-damage-inducible, beta	<a href="#">4616</a>	19 (p13.3)	Gadd45b	10 (60.5 cM)	<a href="#">MGI:107776</a>
10	<a href="#">GPX4</a>	peroxidase 4 (phospholipid)	<a href="#">2879</a>	19 (p13.3)	Gpx4	10 (43.0 cM)	<a href="#">MGI:104767</a>
10	<a href="#">IGF1</a>	factor 1 (somatomedin C)	<a href="#">3479</a>	12 (q22-q23)	Igf1	10 (48.0 cM)	<a href="#">MGI:96432</a>
10	<a href="#">MCM3AP</a>	minichromosome maintenance	<a href="#">8888</a>	21 (q22.3)	Mcm3ap	10 (syntenic)	<a href="#">MGI:1930089</a>
10	<a href="#">MDM2</a>	3T3 cell double minute 2, p53	<a href="#">4193</a>	12 (q14.3-q15)	Mdm2	10 (66.0 cM)	<a href="#">MGI:96952</a>
10	<a href="#">MMP19</a>	metalloproteinase 19	<a href="#">4327</a>	12 (q14)	Mmp19	10 (70.0 cM)	<a href="#">MGI:1927899</a>
10	<a href="#">OPRM1</a>	complex, subunit 3-like (yeast)	<a href="#">23595</a>	6 (q24-q25)	Oprm1	10 (8.0 cM)	<a href="#">MGI:97441</a>
10	<a href="#">PAWR</a>	PRKC, apoptosis, WT1, regulator	<a href="#">5074</a>	12 (q21)	Pawr	10 (D1)	<a href="#">MGI:2149961</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
10	<a href="#">REV3L</a>	subunit of DNA polymerase zeta	<a href="#">5980</a>	6 (q21)	Rev3l	10 (syntenic)	<a href="#">MGI:1337131</a>
10	<a href="#">STAT2</a>	and activator of transcription 2,	<a href="#">6773</a>	12 (q13.3)	Stat2	10 (70.0 cM)	<a href="#">MGI:103039</a>
10	<a href="#">TDG</a>	Thymine-DNA glycosylase	<a href="#">6996</a>	12 (q24.1)	Tdg	10 (43.0 cM)	<a href="#">MGI:108247</a>
11	<a href="#">BRCA1</a>	susceptibility gene 1, early onset	<a href="#">672</a>	17 (q21)	Brca1	11 (60.5 cM)	<a href="#">MGI:104537</a>
11	<a href="#">CDC27</a>	Cell division cycle 27	<a href="#">996</a>	17 (q12-17q23.2)	Cdc27	11 (63.0 cM)	<a href="#">MGI:102685</a>
11	<a href="#">CDC6</a>	homolog (S. cerevisiae)	<a href="#">990</a>	17 (q21.3)	Cdc6	11 (D)	<a href="#">MGI:1345150</a>
11	<a href="#">CDK5R1</a>	kinase 5, regulatory subunit 1 (p35)	<a href="#">8851</a>	17 (q11.2)	Cdk5r1	11 (46.5 cM)	<a href="#">MGI:101764</a>
11	<a href="#">DDC</a>	decarboxylase (aromatic L-amino	<a href="#">1644</a>	7 (p11)	Ddc	11 (7.0 cM)	<a href="#">MGI:94876</a>
11	<a href="#">EGFR</a>	factor receptor (erythroblastic	<a href="#">1956</a>	7 (p12)	Egfr	11 (9.0 cM)	<a href="#">MGI:95294</a>
11	<a href="#">ERBB2</a>	erythroblastic leukemia viral	<a href="#">2064</a>	17 (q21.1)	Erb2	11 (57.0 cM)	<a href="#">MGI:95410</a>
11	<a href="#">FGF11</a>	Fibroblast growth factor 11	<a href="#">2256</a>	17 (p13.1)	Fgf11	11 (B4)	<a href="#">MGI:109167</a>
11	<a href="#">GPX3</a>	peroxidase 3 (plasma)	<a href="#">2878</a>	5 (q23)	Gpx3	11 (B3-B5)	<a href="#">MGI:105102</a>
11	<a href="#">HUS1</a>	homolog (S. pombe)	<a href="#">3364</a>	7 (p13-p12)	Hus1	11 (3.0 cM)	<a href="#">MGI:1277962</a>
11	<a href="#">IGFBP1</a>	factor binding protein 1	<a href="#">3484</a>	7 (p13-p12)	Igfbp1	11 (1.3 cM)	<a href="#">MGI:96436</a>
11	<a href="#">IGFBP4</a>	factor binding protein 4	<a href="#">3487</a>	17 (q12-q21.1)	Igfbp4	11	<a href="#">MGI:96439</a>
11	<a href="#">LIG3</a>	Ligase III, DNA, ATP-dependent	<a href="#">3980</a>	17 (q11.2-q12)	Lig3	11 (48.0 cM)	<a href="#">MGI:109152</a>

EGP Human Gene Mouse Orthologs

Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
11	<a href="#">LPO</a>	Lactoperoxidase	<a href="#">4025</a>	17 (q23.1)	Lpo	11 (C)	<a href="#">MGI:1923363</a>
11	<a href="#">MPG</a>	N-methylpurine-DNA glycosylase	<a href="#">4350</a>	16 (p13.3)	Mpg	11 (16.0 cM)	<a href="#">MGI:97073</a>
11	<a href="#">POLD2</a>	directed), delta 2, regulatory subunit	<a href="#">5425</a>	7 (p13)	Pold2	11 (A2)	<a href="#">MGI:1097163</a>
11	<a href="#">PPIA</a>	isomerase A (cyclophilin A)	<a href="#">5478</a>	7 (p13-p11.2)	Ppia	11 (1.0 cM)	<a href="#">MGI:97749</a>
11	<a href="#">RAD51C</a>	RAD51 homolog C (S. cerevisiae)	<a href="#">5889</a>	17 (q22-q23)	Rad51c	11 (49.0 cM)	<a href="#">MGI:2150020</a>
11	<a href="#">RAD51L3</a>	RAD51-like 3 (S. cerevisiae)	<a href="#">5892</a>	17 (q11)	Rad51l3	11 (48.5 cM)	<a href="#">MGI:1261809</a>
11	<a href="#">RPA1</a>	Replication protein A1, 70kDa	<a href="#">6117</a>	17 (p13.3)	Rpa1	11 (44.0 cM)	<a href="#">MGI:1915525</a>
11	<a href="#">TAF15</a>	polymerase II, TATA box binding	<a href="#">8148</a>	17 (q11.1-q11.2)	Taf15	11 (B5)	<a href="#">MGI:1917689</a>
12	<a href="#">CCNK</a>	Cyclin K	<a href="#">8812</a>	14 (q32)	Ccnk	12 (52.0 cM)	<a href="#">MGI:1276106</a>
12	<a href="#">CDKL1</a>	kinase-like 1 (CDC2-related kinase)	<a href="#">8814</a>	14 (q21.3)	Cdkl1	12 (syntenic)	<a href="#">MGI:1918341</a>
12	<a href="#">DNCH1</a>	cytoplasmic, heavy polypeptide 1	<a href="#">1778</a>	14 (q32)	Dnchc1	12 (55.0 cM)	<a href="#">MGI:103147</a>
12	<a href="#">FOS</a>	osteosarcoma viral oncogene homolog	<a href="#">2353</a>	14 (q24.3)	Fos	12 (40.0 cM)	<a href="#">MGI:95574</a>
12	<a href="#">GPX2</a>	peroxidase 2 (gastrointestinal)	<a href="#">2877</a>	14 (q24.1)	Gpx2	12 (36.0 cM)	<a href="#">MGI:106609</a>
12	<a href="#">GSTZ1</a>	transferase zeta 1 (maleylacetoacetate	<a href="#">2954</a>	14 (q24.3)	Gstz1	12 (E)	<a href="#">MGI:1341859</a>
12	<a href="#">MNAT1</a>	(CAK assembly factor)	<a href="#">4331</a>	14 (q23)	Mnat1	12 (C3)	<a href="#">MGI:106207</a>
12	<a href="#">TGFB3</a>	growth factor, beta 3	<a href="#">7043</a>	14 (q24)	Tgfb3	12 (41.0 cM)	<a href="#">MGI:98727</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
12	<a href="#">XRCC3</a>	complementing defective repair in	<a href="#">7517</a>	14 (q32.3)	Xrcc3	12 (syntenic)	<a href="#">MGI:1921585</a>
13	<a href="#">CCNB1</a>	Cyclin B1	<a href="#">891</a>	5 (q12)	Ccnb1	13 (56.0 cM)	<a href="#">MGI:88302</a>
13	<a href="#">CCNH</a>	Cyclin H	<a href="#">902</a>	5 (q13.3-q14)	Ccnh	13 (syntenic)	<a href="#">MGI:1913921</a>
13	<a href="#">CCRK</a>	Cell cycle related kinase	<a href="#">23552</a>	9 (q22.1)	Ccrk	13 (syntenic)	<a href="#">MGI:2145349</a>
13	<a href="#">CDC14B</a>	cycle 14 homolog B (S. cerevisiae)	<a href="#">8555</a>	9 (q22.33)	Cdc14b	13 (syntenic)	<a href="#">MGI:2441808</a>
13	<a href="#">CDC2L5</a>	like 5 (cholinesterase-	<a href="#">8621</a>	7 (p13)	Cdc2l5	13 (A3.1)	<a href="#">MGI:1916812</a>
13	<a href="#">CDK7</a>	kinase 7 (MO15 homolog, Xenopus	<a href="#">1022</a>	5 (q12.1)	Cdk7	13 (55.0 cM)	<a href="#">MGI:102956</a>
13	<a href="#">CKN1</a>	syndrome 1 (classical)	<a href="#">1161</a>	5 (q12.1)	Ckn1	13 (D)	<a href="#">MGI:1919241</a>
13	<a href="#">CKS2</a>	CDC28 protein kinase 2	<a href="#">1164</a>	9 (q22)	Cks2	13 (syntenic)	<a href="#">MGI:1913447</a>
13	<a href="#">E2F3</a>	E2F transcription factor 3	<a href="#">1871</a>	6 (p22)	E2f3	13 (A3.3)	<a href="#">MGI:1096340</a>
13	<a href="#">EDN1</a>	Endothelin 1	<a href="#">1906</a>	6 (p24.1)	Edn1	13 (26.0 cM)	<a href="#">MGI:95283</a>
13	<a href="#">FANCC</a>	complementation group C	<a href="#">2176</a>	9 (q22.3)	Fancc	13 (36.0 cM)	<a href="#">MGI:95480</a>
13	<a href="#">FGF10</a>	Fibroblast growth factor 10	<a href="#">2255</a>	5 (p13-p12)	Fgf10	13 (75.0 cM)	<a href="#">MGI:1099809</a>
13	<a href="#">GADD45G</a>	DNA-damage-inducible, gamma	<a href="#">10912</a>	9 (q22.1-q22.2)	Gadd45g	13 (A5-B)	<a href="#">MGI:1346325</a>
13	<a href="#">HSD17B3</a>	beta) dehydrogenase 3	<a href="#">3293</a>	9 (q22)	Hsd17b3	13 (B3)	<a href="#">MGI:107177</a>
13	<a href="#">MSH3</a>	mutS homolog 3 (E. coli)	<a href="#">4437</a>	5 (q11-q12)	Msh3	13 (51.0 cM)	<a href="#">MGI:109519</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
13	<a href="#">POLK</a>	Polymerase (DNA directed), kappa	<a href="#">51426</a>	5 (q13)	Polk	13 (D1)	<a href="#">MGI:1349767</a>
13	<a href="#">RAD17</a>	RAD17 homolog (S. pombe)	<a href="#">5884</a>	5 (q13)	Rad17	13 (syntenic)	<a href="#">MGI:1333807</a>
13	<a href="#">SLC6A3</a>	6 (neurotransmitter transporter,	<a href="#">6531</a>	5 (p15.3)	Slc6a3	13 (41.0 cM)	<a href="#">MGI:94862</a>
13	<a href="#">SRD5A1</a>	reductase, alpha polypeptide 1 (3-oxo	<a href="#">6715</a>	5 (p15)	Srd5a1	13 (39.0 cM)	<a href="#">MGI:98400</a>
13	<a href="#">TAF9</a>	polymerase II, TATA box binding	<a href="#">6880</a>	5 (q11.2-q13.1)	Taf9	13 (syntenic)	<a href="#">MGI:1888697</a>
13	<a href="#">TGFB1</a>	growth factor, beta induced, 68kD	<a href="#">7045</a>	5 (q31)	Tgfb1	13 (38.0 cM)	<a href="#">MGI:99959</a>
14	<a href="#">ADPRTL2</a>	ribosyltransferase (NAD+; poly(ADP-	<a href="#">10038</a>	14 (q11.2-q12)	Adprtl2	14 (19.5 cM)	<a href="#">MGI:1341112</a>
14	<a href="#">APEX</a>	(multifunctional DNA repair enzyme)	<a href="#">328</a>	14 (q11.2-q12)	Apex1	14 (18.5 cM)	<a href="#">MGI:88042</a>
14	<a href="#">CDKN3</a>	kinase inhibitor 3 (CDK2-associated	<a href="#">1033</a>	14 (q22)	Cdkn3	14 (C1)	<a href="#">MGI:1919641</a>
14	<a href="#">CHC1L</a>	Chromosome condensation 1-like	<a href="#">1102</a>	13 (q14.3)	Chc1l	14	<a href="#">MGI:1917200</a>
14	<a href="#">CLU</a>	(complement lysis inhibitor, SP-40,40,	<a href="#">1191</a>	8 (p21-p12)	Clu	14 (28.0 cM)	<a href="#">MGI:88423</a>
14	<a href="#">DAD1</a>	Defender against cell death 1	<a href="#">1603</a>	14 (q11-q12)	Dad1	14 (24.0 cM)	<a href="#">MGI:101912</a>
14	<a href="#">EDNRB</a>	Endothelin receptor type B	<a href="#">1910</a>	13 (q22)	Ednrb	14 (51.0 cM)	<a href="#">MGI:102720</a>
14	<a href="#">ERCC6</a>	cross-complementing	<a href="#">2074</a>	10 (q11)	Ercc6	14 (syntenic)	<a href="#">MGI:1100494</a>
14	<a href="#">FGF17</a>	Fibroblast growth factor 17	<a href="#">8822</a>	8 (p21)	Fgf17	14 (38.0 cM)	<a href="#">MGI:1202401</a>
14	<a href="#">FGF9</a>	factor 9 (glia-activating factor)	<a href="#">2254</a>	13 (q11-q12)	Fgf9	14 (21.0 cM)	<a href="#">MGI:104723</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
14	<a href="#">ITM2B</a>	Integral membrane protein 2B	<a href="#">9445</a>	13 (q14.3)	Iitm2b	14 (32.5 cM)	<a href="#">MGI:1309517</a>
14	<a href="#">NEIL2</a>	nei like 2 (E. coli)	<a href="#">252969</a>	8 (p23.1)	Neil2	14 (syntenic)	<a href="#">MGI:2686058</a>
14	<a href="#">RB1</a>	(including osteosarcoma)	<a href="#">5925</a>	13 (q14.2)	Rb1	14 (41.0 cM)	<a href="#">MGI:97874</a>
15	<a href="#">ARSA</a>	Arylsulfatase A	<a href="#">410</a>	22 (q13.33)	Arsa	15 (E)	<a href="#">MGI:88077</a>
15	<a href="#">BIK</a>	killer (apoptosis-inducing)	<a href="#">638</a>	22 (q13.31)	Biklk	15 (syntenic)	<a href="#">MGI:1206591</a>
15	<a href="#">BZRP</a>	receptor (peripheral)	<a href="#">706</a>	22 (q13.31)	Bzrp	15 (43.3 cM)	<a href="#">MGI:88222</a>
15	<a href="#">DAP</a>	Death-associated protein	<a href="#">1611</a>	5 (p15.2)	Dap	15 (syntenic)	<a href="#">MGI:1918190</a>
15	<a href="#">DIA1</a>	(cytochrome b-5 reductase)	<a href="#">1727</a>	22 (q13.2-q13.31)	Dia1	15 (45.2 cM)	<a href="#">MGI:94893</a>
15	DMC1	suppressor of mck1 homolog, meiosis-	<a href="#">11144</a>	22 (q13.1)	Dmc1h	15 (47.5 cM)	<a href="#">MGI:105393</a>
15	<a href="#">ELA1</a>	Elastase 1, pancreatic	<a href="#">1990</a>	12 (q13)	Ela1	15 (56.8 cM)	<a href="#">MGI:95314</a>
15	<a href="#">IGFBP6</a>	factor binding protein 6	<a href="#">3489</a>	12 (q13)	Igfbp6	15 (syntenic)	<a href="#">MGI:96441</a>
15	<a href="#">MYC</a>	myelocytomatosis viral oncogene	<a href="#">4609</a>	8 (q24.12-q24.13)	Myc	15 (32.0 cM)	<a href="#">MGI:97250</a>
15	<a href="#">PLA2G6</a>	group VI (cytosolic, calcium-	<a href="#">8398</a>	22 (q13.1)	Pla2g6	15 (syntenic)	<a href="#">MGI:1859152</a>
15	<a href="#">RAD21</a>	RAD21 homolog (S. pombe)	<a href="#">5885</a>	8 (q24)	Rad21	15 (D3)	<a href="#">MGI:108016</a>
15	<a href="#">SMUG1</a>	selective monofunctional	<a href="#">23583</a>	12 (q13.11-q13.3)	Smug1	15 (syntenic)	<a href="#">MGI:1918976</a>
15	<a href="#">TNFRSF11B</a>	factor receptor superfamily,	<a href="#">4982</a>	8 (q24)	Tnfrsf11b	15 (syntenic)	<a href="#">MGI:109587</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
15	<a href="#">VDR</a>	dihydroxyvitamin D3) receptor	<a href="#">7421</a>	12 (q12-q14)	Vdr	15 (syntenic)	<a href="#">MGI:103076</a>
16	<a href="#">CDC45L</a>	cycle 45-like (S. cerevisiae)	<a href="#">8318</a>	22 (q11.21)	Cdc45l	16 (11.7 cM)	<a href="#">MGI:1338073</a>
16	<a href="#">COMT</a>	Catechol-O-methyltransferase	<a href="#">1312</a>	22 (q11.21)	Comt	16 (11.2 cM)	<a href="#">MGI:88470</a>
16	<a href="#">ERCC4</a>	cross-complementing	<a href="#">2072</a>	16 (p13.3-p13.11)	Ercc4	16 (syntenic)	<a href="#">MGI:1354163</a>
16	<a href="#">HMOX2</a>	Heme oxygenase (decycling) 2	<a href="#">3163</a>	16 (p13.3)	Hmox2	16 (2.6 cM)	<a href="#">MGI:109373</a>
16	<a href="#">MCM4</a>	minichromosome maintenance	<a href="#">4173</a>	8 (q11.2)	Mcm4	16 (9.2 cM)	<a href="#">MGI:103199</a>
16	<a href="#">PRKDC</a>	activated, catalytic polypeptide	<a href="#">5591</a>	8 (q11)	Prkdc	16 (9.2 cM)	<a href="#">MGI:104779</a>
16	<a href="#">RFC4</a>	(activator 1) 4 (37kD)	<a href="#">5984</a>	3 (q27)	Rfc4	16 (syntenic)	<a href="#">MGI:2146571</a>
16	<a href="#">SNN</a>	Stannin	<a href="#">8303</a>	16 (p13)	Snn	16 (A2)	<a href="#">MGI:1276549</a>
16	<a href="#">TNFRSF17</a>	factor receptor superfamily,	<a href="#">608</a>	16 (p13.1)	Tnfrsf17	16 (B3)	<a href="#">MGI:1343050</a>
16	<a href="#">UMPS</a>	monophosphate synthetase (orotate	<a href="#">7372</a>	3 (q13)	Umps	16 (syntenic)	<a href="#">MGI:1298388</a>
17	<a href="#">BAK1</a>	BCL2-antagonist/killer 1	<a href="#">578</a>	6 (p21.3)	Bak1	17 (B)	<a href="#">MGI:1097161</a>
17	<a href="#">BNIP1</a>	E1B 19kDa interacting protein 1	<a href="#">662</a>	5 (q33-q34)	Bnip1	17 (syntenic)	<a href="#">MGI:109328</a>
17	<a href="#">CCND3</a>	Cyclin D3	<a href="#">896</a>	6 (p21)	Ccnd3	17 (28.8 cM)	<a href="#">MGI:88315</a>
17	<a href="#">CDC5L</a>	cycle 5-like (S. pombe)	<a href="#">988</a>	6 (p21)	Cdc5l	17 (syntenic)	<a href="#">MGI:1918952</a>
17	<a href="#">CDKN1A</a>	kinase inhibitor 1A (p21, Cip1)	<a href="#">1026</a>	6 (p21.2)	Cdkn1a	17 (15.23 cM)	<a href="#">MGI:104556</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
17	<a href="#">CYP1B1</a>	family 1, subfamily B, polypeptide 1	<a href="#">1545</a>	2 (p21)	Cyp1b1	17 (syntenic)	<a href="#">MGI:88590</a>
17	<a href="#">GLP1R</a>	Glucagon-like peptide 1 receptor	<a href="#">2740</a>	6 (p21)	Glp1r	17 (18.0 cM)	<a href="#">MGI:99571</a>
17	<a href="#">GTF2H4</a>	transcription factor IIH, polypeptide 4	<a href="#">2968</a>	6 (p21.3)	Gtf2h4	17 (syntenic)	<a href="#">MGI:1338799</a>
17	<a href="#">IGF2R</a>	Insulin-like growth factor 2 receptor	<a href="#">3482</a>	6 (q26)	Igf2r	17 (7.35 cM)	<a href="#">MGI:96435</a>
17	<a href="#">LTA</a>	(TNF superfamily, member 1)	<a href="#">4049</a>	6 (p21.3)	Lta	17 (19.059 cM)	<a href="#">MGI:104797</a>
17	<a href="#">LTB</a>	(TNF superfamily, member 3)	<a href="#">4050</a>	6 (p21.3)	Ltb	17 (19.061 cM)	<a href="#">MGI:104796</a>
17	<a href="#">MSH2</a>	colon cancer, nonpolyposis type 1	<a href="#">4436</a>	2 (p22-p21)	Msh2	17 (45.9 cM)	<a href="#">MGI:101816</a>
17	<a href="#">MSH6</a>	mutS (E. coli) homolog 6	<a href="#">2956</a>	2 (p16)	Msh6	17 (47.0 cM)	<a href="#">MGI:1343961</a>
17	<a href="#">NTHL1</a>	nth endonuclease III-like 1 (E.coli)	<a href="#">4913</a>	16 (p13.3)	Nthl1	17 (A3)	<a href="#">MGI:1313275</a>
17	<a href="#">PKMYT1</a>	associated tyrosine- and threonine-	<a href="#">9088</a>	16 (p13.3)	AW209059	17 (syntenic)	<a href="#">MGI:2137630</a>
17	<a href="#">POLH</a>	Polymerase (DNA directed), eta	<a href="#">5429</a>	6 (p21.1)	Polh	17 (C)	<a href="#">MGI:1891457</a>
17	<a href="#">PPARD</a>	proliferative activated receptor,	<a href="#">5467</a>	6 (p21.2-p21.1)	Ppard	17 (13.5 cM)	<a href="#">MGI:101884</a>
17	<a href="#">PRKR</a>	interferon-inducible double stranded	<a href="#">5610</a>	2 (p22-p21)	Prkr	17 (40.0 cM)	<a href="#">MGI:1353449</a>
17	<a href="#">SOD2</a>	dismutase 2, mitochondrial	<a href="#">6648</a>	6 (q25.3)	Sod2	17 (7.6 cM)	<a href="#">MGI:98352</a>
17	<a href="#">TAF11</a>	polymerase II, TATA box binding	<a href="#">6882</a>	6 (p21.31)	Taf11	17 (syntenic)	<a href="#">MGI:1916026</a>
17	<a href="#">TNF</a>	factor (TNF superfamily,	<a href="#">7124</a>	6 (p21.3)	Tnf	17 (19.06 cM)	<a href="#">MGI:104798</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
18	<a href="#">CDC23</a>	cycle 23, yeast, homolog)	<a href="#">8697</a>	5 (q31)	Cdc23	18 (17.0 cM)	<a href="#">MGI:1098815</a>
18	<a href="#">CDC25C</a>	Cell division cycle 25C	<a href="#">995</a>	5 (q31)	Cdc25c	18 (15.0 cM)	<a href="#">MGI:88350</a>
18	<a href="#">DTR</a>	receptor (heparin-binding epidermal	<a href="#">1839</a>	5 (q23)	Dtr	18 (15.0 cM)	<a href="#">MGI:96070</a>
18	<a href="#">ERCC3</a>	cross-complementing	<a href="#">2071</a>	2 (q21)	Ercc3	18 (B3)	<a href="#">MGI:95414</a>
18	<a href="#">FGF1</a>	Fibroblast growth factor 1 (acidic)	<a href="#">2246</a>	5 (q31)	Fgf1	18 (19.0 cM)	<a href="#">MGI:95515</a>
18	<a href="#">NR3C1</a>	subfamily 3, group C, member 1	<a href="#">2908</a>	5 (q31)	Nr3c1	18 (20.0 cM)	<a href="#">MGI:95824</a>
18	<a href="#">POLI</a>	Polymerase (DNA directed) iota	<a href="#">11201</a>	18 (q21.1)	Poli	18 (E2)	<a href="#">MGI:1347081</a>
19	<a href="#">ALDH1A1</a>	dehydrogenase 1 family, member A1	<a href="#">216</a>	9 (q21.13)	Aldh1a1	19 (12.0 cM)	<a href="#">MGI:1353450</a>
19	<a href="#">CDC42EP2</a>	protein (RHO GTPase binding) 2	<a href="#">10435</a>	11 (q13)	Cdc42ep2	19 (0.0 cM)	<a href="#">MGI:1929744</a>
19	<a href="#">CYP2C8</a>	family 2, subfamily C, polypeptide 8	<a href="#">1558</a>	10q23.33		<b>chr 19</b>	
19	<a href="#">DCLRE1A</a>	repair 1A (PSO2 homolog, S.	<a href="#">9937</a>	10 (q25.1)	Dclre1a	19 (syntenic)	<a href="#">MGI:1930042</a>
19	<a href="#">FAU</a>	murine sarcoma virus (FBR-MuSV)	<a href="#">2197</a>	11 (q13)	Fau	19 (3.0 cM)	<a href="#">MGI:102547</a>
19	<a href="#">FEN1</a>	specific endonuclease 1	<a href="#">2237</a>	11 (q12)	Fen1	19 (syntenic)	<a href="#">MGI:102779</a>
19	<a href="#">FGF8</a>	factor 8 (androgen-induced)	<a href="#">2253</a>	10 (q24)	Fgf8	19 (45.0 cM)	<a href="#">MGI:99604</a>
19	<a href="#">GSTP1</a>	Glutathione S-transferase pi	<a href="#">2950</a>	11 (q13)	Gstp2	19 (0.0 cM)	<a href="#">MGI:95864</a>
19	<a href="#">HTATIP</a>	interactive protein, 60kDa	<a href="#">10524</a>	11 (q13)	Htatip	19 (syntenic)	<a href="#">MGI:1932051</a>

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Mouse Chr#	Hugo Gene Name	Gene Description	<a href="#">Locus Link</a>	Hu Chr#	Mouse Symbol	M Chr	AccID
19	<a href="#">LIPF</a>	Lipase, gastric	<a href="#">8513</a>	10 (q23.31)	Lipf	19 (syntenic)	<a href="#">MGI:1914967</a>
19	<a href="#">POLL</a>	Polymerase (DNA directed), lambda	<a href="#">27343</a>	10 (q23)	Poll	19 (syntenic)	<a href="#">MGI:1889000</a>
19	<a href="#">RAD9A</a>	RAD9 homolog A (S. pombe)	<a href="#">5883</a>	11 (q13.1-q13.2)	Rad9	19 (A)	<a href="#">MGI:1328356</a>
19	<a href="#">REQ</a>	response zinc finger gene	<a href="#">5977</a>	11 (q13)	Dpf2	19 (2.0 cM)	<a href="#">MGI:109529</a>
19	<a href="#">TNFRSF6</a>	factor receptor superfamily,	<a href="#">355</a>	10 (q24.1)	Tnfrsf6	19 (23.0 cM)	<a href="#">MGI:95484</a>
X	<a href="#">FGF13</a>	Fibroblast growth factor 13	<a href="#">2258</a>	X (q26.3)	Fgf13	X (18.0 cM)	<a href="#">MGI:109178</a>
X	<a href="#">HPRT1</a>	phosphoribosyltransferase 1 (Lesch-	<a href="#">3251</a>	X (q26.1)	Hprt1	X (17.0 cM)	<a href="#">MGI:96217</a>
X	<a href="#">POLA</a>	Polymerase (DNA directed), alpha	<a href="#">5422</a>	X (p22.1-p21.3)	Pola1	X (34.0 cM)	<a href="#">MGI:99660</a>
X	<a href="#">TAF1</a>	polymerase II, TATA box binding	<a href="#">6872</a>	X (q13.1)	Taf1	X (38.0 cM)	<a href="#">MGI:1336878</a>
UN	<a href="#">CDKN2D</a>	kinase inhibitor 2D (p19, inhibits CDK4)	<a href="#">1032</a>	19 (p13)	Cdkn2d	UN	<a href="#">MGI:105387</a>
UN	<a href="#">POLS</a>	Polymerase (DNA directed) sigma	<a href="#">11044</a>	5 (p15)	Pols	UN	<a href="#">MGI:2682295</a>
	<a href="#">CYP2C9</a>	family 2, subfamily C, polypeptide 9	<a href="#">1559</a>	10q24			
	<a href="#">HSU24186</a>	A complex 34 kd subunit homolog	<a href="#">29935</a>	Xq21.33			