

EGP Human Gene Mouse Orthologs

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

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

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

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

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

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

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

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

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7	CCND1	parathyroid adenomatosis 1)	595	11 (q13)	Ccnd1	7 (72.3 cM)	MGI:88313
7	CCNE1	Cyclin E1	898	19 (q12)	Ccne1	7 (16.0 cM)	MGI:88316
7	ERCC1	Excision repair cross-	2067	19 (q13.2-q13.3)	Ercc1	7 (4.0 cM)	MGI:95412
7	ERCC2	cross-complementing	2068	19 (q13.3)	Ercc2	7 (4.0 cM)	MGI:95413
7	GPI	Glucose phosphate isomerase	2821	19 (q13.1)	Gpi1	7 (11.0 cM)	MGI:95797
7	GTF2H1	transcription factor IIH, polypeptide 1	2965	11 (p15.1-p14)	Gtf2h1	7 (syntenic)	MGI:1277216
7	IGF1R	Insulin-like growth factor 1 receptor	3480	15 (q26.3)	Igf1r	7 (33.0 cM)	MGI:96433
7	LIG1	Ligase I, DNA, ATP-dependent	3978	19 (q13.2-q13.3)	Lig1	7 (4.0 cM)	MGI:101789
7	PLA2G4C	group IVC (cytosolic, calcium-	8605	19 (q13.3)	D7Erd445e	7 (4.0 cM)	MGI:1196403
7	PNKP	Polynucleotide kinase 3'-phosphate	11284	19 (q13.3-q13.4)	Pnkp	7 (B2)	MGI:1891698
7	POLD1	directed), delta 1, catalytic subunit	5424	19 (q13.3)	Pold1	7 (23.0 cM)	MGI:97741
7	POLG	Polymerase (DNA directed), gamma	5428	15 (q25)	Polg	7 (E)	MGI:1196389
7	SEI1	CDK4-binding protein p34SEI1	29950	19 (q13.1-q13.2)	Sertad1	7 (syntenic)	MGI:1913438
7	TAF2H	POLYMERASE II, TATA box binding	6881	11 (p15.3)	Taf10	7 (F1)	MGI:1346320
7	XRCC1	complementing defective repair in	7515	19 (q13.2)	Xrcc1	7 (5.5 cM)	MGI:99137
7	ZFP36	36, C3H type, homolog (mouse)	7538	19 (q13.1)	Zfp36	7 (10.2 cM)	MGI:99180

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

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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

EGP Human Gene Mouse Orthologs

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