

Oligo GEMicroarray[®] DNA Microarray:

Mouse Autoimmune and Inflammatory Response

Catalog Number

OMM-803
EMM-803

Format:

HybTube (Standard protocol)
HybPlate (Higher throughput protocol)

Description

The Oligo GEMicroarray[®] Mouse Autoimmune and Inflammatory Response Microarray profiles the expression of 440 genes involved in the autoimmunity and inflammation immune responses. It represents expression of inflammatory cytokines, chemokines, and their receptors. It contains genes related to cytokine metabolism and the production of cytokines. Genes involved in cytokine-cytokine receptor interactions are also included. Thoroughly researched panels of genes involved in the acute-phase response, inflammatory response, and humoral immune responses are represented as well. Through a simple side-by-side hybridization experiment you can determine differential gene expression between your samples.

Functional Gene Groupings

Cytokines:

Chemokines: Ccl1, Ccl11, Ccl12, Ccl19, Ccl2, Ccl20, Ccl22, Ccl24, Ccl25, Ccl27, Ccl28, Ccl3, Ccl4, Ccl5, Ccl6, Ccl7, Ccl8, Ccl9, Cx3cl1, Cxcl1, Cxcl10, Cxcl11, Cxcl12, Cxcl13, Cxcl14, Cxcl15, Cxcl16, Cxcl2, Cxcl4, Cxcl5, Cxcl9, Xcl1.

Other cytokines: Angpt1, Angpt2, Areg, Bmp1, Bmp10, Bmp15, Bmp2, Bmp3, Bmp4, Bmp5, Bmp6, Bmp7, Bmp8a, Bmp8b, Bsf3, Cer1, Cklf, Cklfsf2a, Cklfsf3, Cklfsf4, Cklfsf5, Cklfsf6, Cklfsf7, Cklfsf8, Csf1, Csf2, Csf3, Ctf1, Ctf2, Ebi3, Eda, Epo, Fbs1, Fgf1, Fgf10, Fgf11, Fgf12, Fgf13, Fgf14, Fgf15, Fgf17, Fgf18, Fgf2, Fgf20, Fgf23, Fgf3, Fgf4, Fgf5, Fgf6, Fgf7, Fgf8, Fgf9, Figf, Flt3l, Gdf1, Gdf10, Gdf11, Gdf15, Gdf2, Gdf3, Gdf5, Gdf6, Gdf7, Gdf8, Gdf9, Glmn, Gpi1, Grem1, Grem2, Grn, Heph, Ifnb1, Ifng, Ifnk, Il10, Il11, Il12a, Il12b, Il13, Il15, Il16, Il17, Il17b, Il18, Il19, Il1a, Il1b, Il1f10, Il1f5, Il1f6, Il1f8, Il1f9, Il1rn, Il2, Il20, Il21, Il22, Il24, Il28, Il3, Il4, Il5, Il6, Il7, Il9, Kitl, Lefty1, Lif, Lta, Ltb, Mif, Nodal, Ntf3, Ntf5, ORF9, Osm, Pglyrp1, S100a11, Scgb3a1, Scye1, Sdcbp, Siva, Slurp1, Spp1, Spred1, Spred2, Thpo, Tnf, Tnfsf10, Tnfsf11, Tnfsf12, Tnfsf13, Tnfsf13b, Tnfsf14, Tnfsf4, Tnfsf5, Tnfsf6, Tnfsf7, Tnfsf8, Tnfsf9, Txndc5.

Cytokine Receptors:

Cytokine receptors: Cntrf, Csf2rb1, Csf2rb2, Csf3r, Ebi3, Epdr, F3, Ghr, Ifnar1, Ifnar2, Ifngr1, Il10ra, Il10rb, Il11ra1, Il12b, Il12rb1, Il12rb2, Il13ra1, Il15ra, Il17r, Il17rb, Il18r1, Il18rap, Il1r1, Il1r2, Il1rap, Il1rap2, Il1r11, Il1r12, Il21r, Il22ra2, Il27ra, Il28ra, Il2ra, Il2rb, Il2rg, Il3ra, Il4ra, Il5ra, Il6ra, Il6st, Il7r, Il8rb, Il9r, Lepr, Lifr, Mpl, Prlr, Tslpr.

Chemokine receptors: Blr1, Ccbp2, Ccr1, Ccr11, Ccr2, Ccr3, Ccr4, Ccr5, Ccr6, Ccr7, Ccr8, Ccr9, Ccr11, Cmkor1, Cx3cr1, Cxcr3, Cxcr4, Gpr2, Il8rb, P2ry1, Xcr1.

Genes involved in Cytokine Metabolism: Cd1d1, Cd1d2, Cd28, Cd4, Cebpb, Cebpe, Fcer1a, Fcer1g, Fcgr3, Gadd45g, Glmn, Ifnar1, Ifng, Il19, Il1b, Il1rap, Il6, Irf1, Irf3, Irf7, Isgf3g, Lag3, Map2k3, Myd88, Nfkb1, Pawr, Prkcq, Rel, Rela, Spn, Stat5a, Stat5b, Syk, Tlr2, Tlr3, Tnfrsf13c, Traf6.

Genes involved in Cytokine Production: Cd1d1, Cd1d2, Cd28, Cd4, Cebpb, Cebpe, Elf1, Fcer1a, Fcer1g, Fcgr3, Gadd45g, Glmn, Ifnar1, Ifng, Il19, Il1b, Il1rap, Il6, Irf1, Irf3, Irf7, Isgf3g, Lag3, Lcp2, Map2k3, Myd88, Nfkb1, Pawr, Prkcq, Ptafr, Rel, Rela, Spn, Stat5a, Stat5b, Syk, Tlr2, Tlr3, Tnfrsf13c, Traf6.

Gene involved in antigen presentation and processing:

Antigen presentation: Ap3b1, Azgp1, B2m, Cd1d1, Fcer1g, Fcgr1, Fcgr2b, Fcgr3, Fcgrt, Hfe, Ii, Phf2011, Relb, Traf6.

Antigen processing: Ap3b1, B2m, Hfe, Ii, Phf2011, Tapbp.

Product Specification Sheet

Genes involved in acute-phase response: Crp, F2, F8, Fn1, Hp, Il6, Orm1, Orm2, Pap, Reg3a, Reg3g, Saa2, Saa3, Saa4, Serpina1b, Serpina3n, Serpinf2, Stat3, Stat5a.

Genes involved in inflammatory response: Akt1, Alox5, Aoah, Atrn, C3, Calca, Ccl11, Ccl12, Ccl19, Ccl2, Ccl20, Ccl22, Ccl24, Ccl25, Ccl3, Ccl4, Ccl5, Ccl7, Ccl8, Ccr1, Ccr2, Ccr4, Cd14, Chi3l3, Chst1, Chst2, Chst4, Crh, Csf3r, Cxcl1, Cxcl10, Cxcl11, Cxcl13, Cxcl15, Cxcl2, Cxcl4, Cxcl5, Cxcl9, Dfy, Dock2, Edg3, Fcer1a, Fcer1g, Fcgr1, Fcgr2b, Fcgr3, Ggta1, Gpr68, Hc, Hipk2, Ifng, Il16, Il17, Il17b, Il1a, Il1b, Il1f10, Il1f5, Il1f6, Il1f8, Il1rn, Il2, Il2ra, Itgam, Itgb2, Kikb1, Kng1, Lta, Ly78, Ly86, Ly96, Map2k3, Mcpt6, Mefv, Mif, Mup1, Myd88, Ncf1, Olr1, Pap, Pla2g7, Plaa, Pparg, Prkca, Ptafr, Ptger3, Pycard, Raet1c, Reg3a, Reg3g, Selp, Spn, Spp1, Stab1, Stat5a, Stat5b, Tac1, Tgfb1, Tirap, Tlr1, Tlr2, Tlr3, Tlr4, Tlr5, Tlr6, Tlr7, Tlr8, Tlr9, Tnf, Tnfrsf1a, Tnfrsf1b, Tnfrsf4, Tollip, Zfp36.

Genes involved in humoral immune response: 1700013L23Rik, And, Aire, Bcl10, Bmi1, C1qa, C1qb, C1r, C1s, C2, C3, C4, C5r1, C8a, C9, Ccr2, Cd1d1, Cd1d2, Cfh, Cfi, Cr2, Daf1, Dock2, Fcer1g, Fcgr2b, Hc, Ii, Il2, Irf7, Lta, Masp1, Masp2, Mbl1, Mbl2, Myd88, Pfc, Pou2f2, Prkcd, Serping1, Sh2d1a, Tnf, Tnfrsf5, Tnfsf13, Tnfsf13b, Tnfsf5, Traf2, Traf6.

Genes involved in immune cell activation: Ap3b1, Bad, Bcl11a, Blr1, Bsf3, Btla, Casp3, Cbfb, Ccnd3, Cd1d1, Cd1d2, Cd28, Cd3d, Cd3e, Cd4, Cd5, Cd8a, Cd8b1, Cdkn1a, Cntnap2, Cr2, Csf2, Cxcl12, Cxcr4, Dclre1c, Dock2, Efnb1, Egr1, Fas, Fcer1a, Fcgr2b, Fcgr3, Flt3, Flt3l, Fyb, Gadd45g, Hmgb3, Hprt1, Icosl, Ifng, Igbp1, Iggbp1b, Ii, Il11ra1, Il15, Il2, Il2ra, Il4, Il7, Impdh1, Impdh2, Irf4, Lag3, Lcp2, Map4k6, Ms4a1, Ndrgr1, Pawr, Pdcd1lg2, Pik3cd, Pik3r1, Polm, Ppp3cb, Prkcd, Prkcg, Ptprc, Ptprc, Raet1c, Rag1, Rag2, Rbpsuh, Relb, Rgs1, Sfpi1, Sla2, Slamf1, Sp3, Spn, Spp1, Stat5a, Stat5b, Suv39h2, Syk, Tbx21, Tgfb1, Tnfrsf13b, Tnfrsf13c, Tnfrsf5, Tnfsf13, Tnfsf13b, Traf6, Vav1, Was, Zap70.

Other genes involved in immune response: Aps, Lat, Lyst, Mx1, Mx2, Pnliprp2.

Storage Conditions

Please check the kit components immediately after you receive this package. SuperArray is only responsible for missing items reported within two (2) business days of receipt.

GEArray microarrays are shipped at ambient temperature enclosed in either a HybTube or ExpressPak Storage Box. They should be stored at -20°C upon receipt.

References

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3. Christopherson K, Hromas R (2001). Chemokine Regulation of Normal and Pathologic Immune Responses. *Stem Cells*. 19: 388-96.
4. Godessart N, Kunkel SL (2001). Chemokines in Autoimmune Disease. *Curr Opin Immunol*. 13: 670-5.
5. Kaplansky G, Bongrand P (2001) Cytokines and Chemokines. *Cell Mol Biol*. 47: 569-74.
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8. Santamaria P. (2001). Cytokines and Chemokines in Autoimmune Disease, www.Eurekah.com.
9. Weiner HL (2001). "Induction and mechanism of action of transforming growth factor-beta-secreting Th3 regulatory cells." *Immunol Rev* 182: 207-14.
10. Wong, C.K., et al. (2001) Proinflammatory cytokines (IL-17, IL-6, IL-18 and IL-12) and Th cytokines (IFN-gamma, IL-4, IL-10 and IL-13) in patients with allergic asthma. *Clin Exp Immunol*. 125(2), 177-83.
11. Miyazono K. (2000) Positive and negative regulation of TGF-beta signaling, *J Cell Sci Apr*; 113 (Pt 7): 1101-9.
12. Callard R, Gearing A (1998). *The Cytokine Facts Book*, Academic Press.
13. Ghosh S., May M.J. and Kopp E.B. (1998) NFkB and Rel Proteins: Evolutionarily Conserved Mediators Of Immune Responses. *Annu. Rev. Immunol*. 16: 225-60.
14. Bauerle, P.A. and Baichwal, V.R. (1997) NFkB As A Frequent Target For Immunosuppressive And Anti-Inflammatory Molecules. *Adv. Immunol*. 65: 111-137.
15. Rao, A. NF-Atp (1994) A transcription factor required for the co-ordinate induction of several cytokine genes. *Immuno Today* 15: 274-281.

Product Specification Sheet

Oligo GEArray[®] Mouse Autoimmune and Inflammatory Response Microarray

Array Layout:

Rps27a1	Rps27a2	Adn3	Aire4	Akt15	Alox56	Angpt17	Angpt28	Angpt49	Aoah10	Ap3b111	Aps12	Areg13	Gapd14	Gapd15	Gapd16
Rps27a17	Atrn18	Azap119	B2m20	Bad21	Bcl1022	Bcl11a23	Blr124	Bmi125	Bmp126	Bmp1027	Bmp1528	Bmp229	Bmp330	Bmp431	Blank32
Bmp533	Bmp634	Bmp735	Bmp8a36	Bmp8b37	Bsf338	Btla39	C1aa40	C1ab41	C1r42	C1s43	C244	C345	C446	C5r147	C8a48
C949	Calca50	Casp351	Cbfb52	Ccbp253	Ccl154	Ccl1155	Ccl1256	Ccl1957	Ccl258	Ccl2059	Ccl2260	Ccl2461	Ccl2562	Ccl2763	Ccl2864
Ccl365	Ccl466	Ccl567	Ccl668	Ccl769	Ccl870	Ccl971	Ccnd372	Ccr173	Ccr1174	Ccr275	Ccr376	Ccr477	Ccr578	Ccr679	Ccr780
Ccr881	Ccr982	Ccr183	Cd1484	Cd18085	Cd1d186	Cd1d287	Cd2888	Cd3d89	Cd3e90	Cd491	Cd4092	Cd40la93	Cd594	Cd7495	Cd8a96
Cd8b197	Cdkn1a98	Cebpb99	Cebpe100	Cer1101	Cfh102	Cfi103	Chi3i3104	Chst1105	Chst2106	Chst4107	Clf108	Cmkr1109	Cmtm2a110	Cmtm3111	Cmtm4112
Cmtm5113	Cmtm6114	Cmtm7115	Cmtm8116	Cnfr117	Cntnap2118	Cr2119	Crh120	Crp121	Csf1122	Csf2123	Csf2rb1124	Csf2rb2125	Csf3126	Csf3r127	Ctf128
Ctf2129	Cx3cl1130	Cx3cr1131	Cxcl1132	Cxcl10133	Cxcl11134	Cxcl12135	Cxcl13136	Cxcl14137	Cxcl15138	Cxcl16139	Cxcl2140	Cxcl4141	Cxcl5142	Cxcl9143	Cxcr3144
Cxcr4145	Daf1146	Dclre1c147	Dfv148	Dock2149	Ebi3150	Eda151	Edq3152	Efnb1153	Egr1154	Elf1155	Epo156	Epor157	F2158	F3159	AS1160
F8161	Fas162	Fasl163	B2m164	Fbs165	Fcer1a166	Fcer1q167	Fcgr1168	Fcgr2b169	Fcgr3170	Fcgr4171	Faf1172	Faf2173	Faf3174	Faf4175	AS1176
Faf13177	Faf14178	Faf15179	Faf17180	B2m181	Faf18182	Faf2183	Faf20184	Faf23185	Faf3186	Faf4187	Faf5188	Faf6189	Faf7190	Faf8191	AS1R1192
Fgf9193	Fgf194	Fit3195	Fit3l196	Fn1197	B2m198	Fyb199	Gadd45q200	Gdf1201	Gdf10202	Gdf11203	Gdf15204	Gdf2205	Gdf3206	Gdf5207	AS1R2208
Gdf6209	Gdf7210	Gdf8211	Gdf9212	Ggla1213	Ghr214	Glmn215	Gpi1216	Gpr2217	Gpr68218	Grem1219	Grem2220	Gm221	Hc222	Heph223	AS1R3224
Hfe225	Hipk2226	Hmqb3227	Hp228	Hprt1229	Icosl230	Ifnar1231	Ifnar2232	Ifnb1233	Ifna234	Ifnar1235	Ifnk236	Iabp1237	Iabp1b238	Ii10239	Ii10ra240
Ii10rb241	Ii11242	Ii11ra1243	Ii12a244	Ii12b245	Ii12rb1246	Ii12rb2247	Ii13248	Ii13ra1249	Ii15250	Ii15ra251	Ii16252	Ii17253	Ii17b254	Ii17r255	Ii17rb256
Ii18257	Ii18r1258	Ii18rap259	Ii19260	Ii1a261	Ii1b262	Ii1f10263	Ii1f5264	Ii1f6265	Ii1f8266	Ii1f9267	Ii1r1268	Ii1r2269	Ii1rap270	Ii1rapl2271	Ii1r1272
Ii1r2273	Ii1rn274	Ii2275	Ii20276	Ii21277	Ii21r278	Ii22279	Ii22ra2280	Ii24281	Ii27a282	Ii28283	Ii28ra284	Ii2ra285	Ii2b286	Ii2rq287	Ii3288
Ii3ra289	Ii4290	Ii4ra291	Ii5292	Ii5ra293	Ii6294	Ii6ra295	Ii6st296	Ii7297	Ii7r298	Ii8rb299	Ii9300	Ii9r301	Impdh1302	Impdh2303	Irf1304
Irf3305	Irf4306	Irf7307	Isgf3q308	Ilgam309	Ilgb2310	Kitl311	Klkb1312	Kng1313	Laq314	Lat315	Lcp2316	Lefty1317	Lep1318	Lif319	Lifr320
Lta321	Ltb322	Lv86323	Lv96324	Lvst325	Map2k3326	Masp1327	Masp2328	Mbl1329	Mbl2330	Mcpt6331	Mefv332	Mif333	Mink1334	Mpl335	Ms4a1336
Mup1337	Mx1338	Mx2339	Myd88340	Ncf1341	Ndrq1342	Nfkb1343	Nodal344	Nif3345	Nif5346	Olr1347	ORF9348	Orm1349	Orm2350	Osm351	P2ry1352
Pap353	Pawr354	Pdcd11q2355	Pfc356	Pglvrp1357	Phf2011358	Pik3cd359	Pik3r1360	Pla2q7361	Plaa362	Hspcb363	Pnliorp2364	Polm365	Pou2f2366	Pparq367	Ppp3cb368
Prkca369	Prkcd370	Prkca371	Prr1372	Ptfr373	Ptger3374	Ptprc375	Pvcard376	Raet1c377	Hspcb378	Raq1379	Raq2380	Rbpsuh381	Rea3a382	Rea3q383	Rel384
Rela385	Relb386	Rgs1387	S100a11388	Saa2389	Saa3390	Saa4391	Scqb3a1392	Hspcb393	Snp394	Spp1395	Spred1396	Spred2397	Stab1398	Stat3399	Stat5a400
Sipi1401	Sh2d1a402	Siva403	Sla2404	Slamf1405	Slurp1406	Sp3407	Hspcb408	Snp409	Tlr1410	Tlr2411	Tlr3412	Tlr4413	Tlr5414	Tlr6415	Stat5b416
Suv39h2417	Syk418	Tac1419	Tabbp420	Tbx21421	Tafb1422	Thpo423	Tirap424	Tlr1425	Tlr2426	Tlr3427	Tlr4428	Tlr5429	Tlr6430	Tlr7431	Tlr8432
Ppia433	Tlr9434	Tnf435	Tnfrsf13b436	Tnfrsf13c437	Tnfrsf1a438	Tnfrsf1b439	Tnfrsf4440	Tnfrsf10441	Tnfrsf11442	Tnfrsf12443	Tnfrsf13444	PUC18445	Pol1446	Blank447	Blank448
Ppia449	Blank450	Blank451	Tnfrsf13b452	Tnfrsf14453	Tnfrsf4454	Tnfrsf7455	Tnfrsf8456	Tnfrsf9457	Tollip458	Tpte2459	12SrRNA460	Actb461	Rpl32462	Pgk1463	Aldo1464
Ppia465	Ppia466	Traf2467	Traf6468	Txndc5469	Vav1470	Was471	Xcl1472	Xcr1473	Zap70474	Zfp36475	BAS2C476	BAS2C477	BAS2C478	BAS2C479	BAS2C480

Product Specification Sheet

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Gene Table:

Position	UniGene	GenBank	Symbol	Description
1	Mm.180003	NM_024277	Ros27a	Ribosomal protein S27a
2	Mm.180003	NM_024277	Ros27a	Ribosomal protein S27a
3	Mm.4407	NM_013459	Adn	Adiponin
4	Mm.35300	NM_009846	Aire	Autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy)
5	Mm.6845	NM_009852	Akt1	Thymoma viral protein oncogene 1
6	Mm.41072	NM_009862	Alox5	Arachidonate 5-lipoxygenase
7	Mm.309336	NM_009840	Angpt1	Angiopoietin 1
8	Mm.373514	NM_007426	Angpt2	Angiopoietin 2
9	Mm.189536	NM_009641	Angpt4	Angiopoietin 4
10	Mm.314046	NM_012054	Aoah	Acylloxacyl hydrolase
11	Mm.21185	NM_009680	Ap3b1	Adaptor-related protein complex 3, beta 1 subunit
12	Mm.277333	NM_018825	Aps	Adaptor protein with pleckstrin homology and src
13	Mm.8039	NM_009704	Areg	Amphiregulin
14	Mm.333399	NM_008084	Gand	Glyceraledehyde-3-phosphate dehydrogenase
15	Mm.333399	NM_008084	Gand	Glyceraledehyde-3-phosphate dehydrogenase
16	Mm.333399	NM_008084	Gand	Glyceraledehyde-3-phosphate dehydrogenase
17	Mm.180003	NM_024277	Ros27a	Ribosomal protein S27a
18	Mm.119936	NM_009730	Atrn	Attractin
19	Mm.30061	NM_013478	Azop1	Alpha-2-glycoprotein 1, zinc
20	Mm.163	NM_009735	B2m	Beta-2-microglobulin
21	Mm.4387	NM_007522	Bad	Bcl-associated death promoter
22	Mm.239141	NM_009740	Bcl10	B-cell leukemia/lymphoma 10
23	Mm.53687	NM_016707	Bcl11a	B-cell Cl1/lymphoma 11A (zinc finger protein)
24	Mm.6246	NM_007551	Bcl1	Burkitt lymphoma receptor 1
25	Mm.289584	NM_007552	Bmi1	Polcomb group ring finger 4 (Pcof4), mRNA
26	Mm.27757	NM_009755	Bmp1	Bone morphogenetic protein 1
27	Mm.57174	NM_009756	Bmp10	Bone morphogenetic protein 10
28	Mm.42160	NM_009757	Bmp15	Bone morphogenetic protein 15
29	Mm.102905	NM_007553	Bmp2	Bone morphogenetic protein 2
30	Mm.209571	NM_173404	Bmp3	Bone morphogenetic protein 3
31	Mm.6813	NM_007554	Bmp4	Bone morphogenetic protein 4
32	Blank	Blank	Blank	Blank
33	Mm.118034	NM_007555	Bmp5	Bone morphogenetic protein 5
34	Mm.374781	NM_007556	Bmp6	Bone morphogenetic protein 6
35	Mm.595	NM_007557	Bmp7	Bone morphogenetic protein 7
36	Mm.318417	NM_007558	Bmp8a	Bone morphogenetic protein 8a
37	Mm.30413	NM_007559	Bmp8b	Bone morphogenetic protein 8b
38	Mm.347919	NM_019952	Bstf3	Cardiotrophin-like cytokine factor 1 (Clcf1), mRNA
39	Mm.38199	NM_177584	Btla	B and T lymphocyte associated
40	Mm.370	NM_007572	C1qa	Complement component 1, q subcomponent, alpha polypeptide
41	Mm.2570	NM_009777	C1qb	Complement component 1, q subcomponent, beta polypeptide
42	Mm.333375	NM_023143	C1r	Complement component 1, r subcomponent
43	Mm.219527	NM_144938	C1s	Complement component 1, s subcomponent
44	Mm.283217	NM_013484	C2	Complement component 2 (within H-2S)
45	Mm.19131	NM_009778	C3	Complement component 3
46	Mm.16106	NM_009780	C4	Complement component 4 (within H-2S)
47	Mm.247623	NM_007577	C5r1	Complement component 5, receptor 1
48	Mm.197638	NM_146148	C8a	Complement component 8, alpha polypeptide
49	Mm.29095	NM_013485	C9	Complement component 9
50	Mm.4361	NM_007587	Calca	Calcitonin/calcitonin-related polypeptide, alpha
51	Mm.34405	NM_009610	Casp3	Caspase 3
52	Mm.2018	NM_022308	Cbfb	Core binding factor beta
53	Mm.258105	NM_021608	Ccl20	Chemokine (C-C motif) protein 2
54	Mm.1283	NM_011329	Ccl1	Chemokine (C-C motif) ligand 1
55	Mm.4686	NM_011330	Ccl11	Small chemokine (C-C motif) ligand 11
56	Mm.867	NM_011331	Ccl12	Chemokine (C-C motif) ligand 12
57	Mm.379051	NM_011888	Ccl19	Chemokine (C-C motif) ligand 19
58	Mm.290320	NM_011333	Ccl2	Chemokine (C-C motif) ligand 2
59	Mm.116739	NM_016960	Ccl20	Chemokine (C-C motif) ligand 20
60	Mm.12895	NM_009137	Ccl22	Chemokine (C-C motif) ligand 22
61	Mm.31505	NM_019577	Ccl24	Chemokine (C-C motif) ligand 24
62	Mm.7275	NM_009138	Ccl25	Chemokine (C-C motif) ligand 25
63	Mm.373540	NM_011336	Ccl27	Chemokine (C-C motif) ligand 27
64	Mm.143745	NM_020279	Ccl28	Chemokine (C-C motif) ligand 28
65	Mm.1282	NM_011337	Ccl3	Chemokine (C-C motif) ligand 3
66	Mm.244263	NM_013652	Ccl4	Chemokine (C-C motif) ligand 4
67	Mm.284248	NM_013653	Ccl5	Chemokine (C-C motif) ligand 5
68	Mm.137	NM_009139	Ccl6	Chemokine (C-C motif) ligand 6
69	Mm.341574	NM_013654	Ccl7	Chemokine (C-C motif) ligand 7
70	Mm.42029	NM_021443	Ccl8	Chemokine (C-C motif) ligand 8
71	Mm.2271	NM_011338	Ccl9	Chemokine (C-C motif) ligand 9
72	Mm.246520	NM_007632	Ccrnd3	Ccrnd3
73	Mm.274927	NM_009912	Ccr1	Chemokine (C-C motif) receptor 1
74	Mm.57056	NM_007718	Ccr11	Chemokine (C-C motif) receptor 1-like 1
75	Mm.6272	NM_009915	Ccr2	Chemokine (C-C motif) receptor 2
76	Mm.57050	NM_009914	Ccr3	Chemokine (C-C motif) receptor 3
77	Mm.1337	NM_009916	Ccr4	Chemokine (C-C motif) receptor 4
78	Mm.14302	NM_009917	Ccr5	Chemokine (C-C motif) receptor 5
79	Mm.8007	NM_009835	Ccr6	Chemokine (C-C motif) receptor 6
80	Mm.2932	NM_007719	Ccr7	Chemokine (C-C motif) receptor 7
81	Mm.8000	NM_007720	Ccr8	Chemokine (C-C motif) receptor 8
82	Mm.299367	NM_009913	Ccr9	Chemokine (C-C motif) receptor 9
83	Mm.269254	NM_145700	Ccr11	Chemokine (C-C motif) receptor-like 1
84	Mm.3460	NM_009841	Cd14	CD14 antigen
85	Mm.3300	NM_008533	Cd180	CD180 antigen
86	Mm.1894	NM_007639	Cd1d1	CD1d1 antigen
87	Mm.157907	NM_007640	Cd1d2	CD1d2 antigen
88	Mm.255003	NM_007642	Cd28	CD28 antigen
89	Mm.4527	NM_013487	Cd3d	CD3 antigen, delta polypeptide
90	Mm.210361	NM_007648	Cd3e	CD3 antigen, epsilon polypeptide
91	Mm.2209	NM_013488	Cd4	CD4 antigen
92	Mm.271833	NM_011611	Cd40	CD40 antigen
93	Mm.4861	NM_011616	Cd40ln	CD40 ligand
94	Mm.779	NM_007650	Cd5	CD5 antigen
95	Mm.276499	NM_010545	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex class II antigen-associated)

Product Specification Sheet

Position	UniGene	GenBank	Symbol	Description
96	Mm.1858	XM.132621	Cd8a	CD8 antigen_alpha_chain
97	Mm.333148	NM.009858	Cd8b1	CD8 antigen_beta_chain_1
98	Mm.195663	NM.007669	Cdkn1a	Cyclin-dependent kinase inhibitor 1A (P21)
99	Mm.347406	NM.009893	Cebhb	CCAAT/enhancer binding protein (C/EBP)_beta
100	Mm.236223	NM.207131	Cebpe	CCAAT/enhancer binding protein (C/EBP)_epsilon
101	Mm.6780	NM.009887	Cer1	Cerberus 1 homolog (Xenopus laevis)
102	Mm.8655	NM.009888	Cfh	Complement component factor h
103	Mm.117180	NM.007686	Cfi	Complement component factor i
104	Mm.4571	NM.009892	Chi3l3	Chitinase 3-like_3
105	Mm.38021	NM.023850	Chst1	Carbohydrate (keratan sulfate_Gal-6) sulfotransferase_1
106	Mm.212446	NM.018763	Chst2	Carbohydrate sulfotransferase_2
107	Mm.89207	NM.011998	Chst4	Carbohydrate (chondroitin_6/keratan) sulfotransferase_4
108	Mm.269219	NM.029295	Ckif	Chemokine-like factor
109	Mm.6522	NM.007722	Cmkor1	Chemokine orphan receptor_1
110	Mm.272746	NM.027022	Cmtm2a	CK1 F-like MARVEL transmembrane domain containing 2A
111	Mm.373569	NM.024217	Cmtm3	CK1 F-like MARVEL transmembrane domain containing 3
112	Mm.383258	NM.153582	Cmtm4	CK1 F-like MARVEL transmembrane domain containing 4
113	Mm.41614	NM.026066	Cmtm5	CK1 F-like MARVEL transmembrane domain containing 5
114	Mm.28858	NM.026036	Cmtm6	CK1 F-like MARVEL transmembrane domain containing 6
115	Mm.35600	NM.133978	Cmtm7	CK1 F-like MARVEL transmembrane domain containing 7
116	Mm.150064	NM.027294	Cmtm8	CK1 F-like MARVEL transmembrane domain containing 8
117	Mm.272210	NM.016673	Cnfr	Ciliary neurotrophic factor receptor
118	Mm.321004	NM.001004357	Cnman2	Contactin associated protein-like_2
119	Mm.285387	NM.007758	C2	Complement receptor_2
120	Mm.290689	NM.205769	Crh	Corticotropin releasing hormone
121	Mm.28767	NM.007768	Crp	C-reactive protein_beta_txin_related
122	Mm.795	NM.007778	Csf1	Colony stimulating factor_1 (macrophage)
123	Mm.4922	NM.009869	Csf2	Colony stimulating factor_2 (granulocyte-macrophage)
124	Mm.235324	NM.007780	Csf2rb1	Colony stimulating factor 2 receptor_beta_1_low-affinity (granulocyte-macrophage)
125	Mm.1940	NM.007781	Csf2rb2	Colony stimulating factor 2 receptor_beta_2_low-affinity (granulocyte-macrophage)
126	Mm.1238	NM.009971	Csf3	Colony stimulating factor_3 (granulocyte)
127	Mm.271701	NM.007782	Csf3r	Colony stimulating factor_3 receptor (granulocyte)
128	Mm.249829	NM.007795	Cif1	Cardiotrophin_1
129	Mm.298017	NM.198858	Cif2	Cardiotrophin_2
130	Mm.103711	NM.009142	Cx3cl1	Chemokine (C-X3-C motif)_ligand_1
131	Mm.44065	NM.009887	Cx3cr1	Chemokine (C-X3-C)_receptor_1
132	Mm.21013	NM.008176	Cxcl1	Chemokine (C-X-C motif)_ligand_1
133	Mm.877	NM.021274	Cxcl10	Chemokine (C-X-C motif)_ligand_10
134	Mm.131723	NM.019494	Cxcl11	Chemokine (C-X-C motif)_ligand_11
135	Mm.303231	NM.021704	Cxcl12	Chemokine (C-X-C motif)_ligand_12
136	Mm.10116	NM.018866	Cxcl13	Chemokine (C-X-C motif)_ligand_13
137	Mm.30211	NM.019568	Cxcl14	Chemokine (C-X-C motif)_ligand_14
138	Mm.64326	NM.011339	Cxcl15	Chemokine (C-X-C motif)_ligand_15
139	Mm.359802	NM.023158	Cxcl16	Chemokine (C-X-C motif)_ligand_16
140	Mm.4979	NM.009140	Cxcl2	Chemokine (C-X-C motif)_ligand_2
141	Mm.332490	NM.019932	Cxcl4	Chemokine (C-X-C motif)_ligand_4
142	Mm.4660	NM.009141	Cxcl5	Chemokine (C-X-C motif)_ligand_5
143	Mm.766	NM.008590	Cxcl9	Chemokine (C-X-C motif)_ligand_9
144	Mm.12876	NM.009810	Cxcr3	Chemokine (C-X-C motif)_receptor_3
145	Mm.1401	NM.009811	Cxcr4	Chemokine (C-X-C motif)_receptor_4
146	Mm.101591	NM.010016	Daf1	Decay accelerating factor_1
147	Mm.23483	NM.146114	Dclre1c	DNA cross-link repair 1C_PSO2 homolog (S_cerevisiae)
148	Mm.6393	NM.010045	Dfv	Duffy blood group
149	Mm.217288	NM.033374	Dock2	Dedicator of cyto-kinesis_2
150	Mm.256798	NM.015766	Ebi3	Epstein-Barr virus induced gene_3
151	Mm.328086	NM.010099	Ecl	Ectodysplasin-A
152	Mm.136736	NM.010101	Edo3	Endothelial differentiation sphingolipid_G-protein-coupled receptor_3
153	Mm.3374	NM.010110	Efnb1	Efnrin_B1
154	Mm.181959	NM.007913	Egr1	Early growth response_1
155	Mm.301204	NM.007920	Eif1	E74-like factor_1
156	Mm.349116	NM.007942	Epo	Erythropoietin
157	Mm.2653	NM.010149	Epor	Erythropoietin receptor
158	Mm.89048	NM.010168	F2	Coagulation factor II
159	Mm.273188	NM.010171	F3	Coagulation factor III
160	N/A	N/A	AS1	Artificial Sequence_1
161	Mm.1805	NM.007977	F8	Coagulation factor VIII
162	Mm.1626	NM.007987	Fas	Fas (TNF receptor superfamily member)
163	Mm.3355	NM.010177	FasL	Fas ligand (TNF superfamily member 6)
164	Mm.163	NM.009735	B2m	Beta-2-microglobulin
165	Mm.334244	XM.284344	Ebst1	Ebstein 1
166	Mm.5286	NM.010184	Ecer1a	Ec receptor_ligE_high affinity I_alpha polypeptide
167	Mm.26773	NM.010185	Ecer1n	Ec receptor_ligE_high affinity I_nammapolypeptide
168	Mm.160	NM.010186	Ecer1	Ec receptor_ligG_high affinity I
169	Mm.330161	NM.010187	Ecer2b	Ec receptor_ligG_low affinity IIIb
170	Mm.22119	NM.010188	Ecer3	Ec receptor_ligG_low affinity III
171	Mm.3303	NM.010189	Ecer4	Ec receptor_ligG_alpha chain transporter
172	Mm.241282	NM.010197	Fgf1	Fibroblast growth factor_1
173	Mm.317323	NM.008002	Fgf10	Fibroblast growth factor_10
174	Mm.269011	NM.010198	Fgf11	Fibroblast growth factor_11
175	Mm.7996	NM.010199	Fgf12	Fibroblast growth factor_12
176	N/A	N/A	AS1	Artificial Sequence_1
177	Mm.7995	NM.010200	Fgf13	Fibroblast growth factor_13
178	Mm.380922	NM.010201	Fgf14	Fibroblast growth factor_14
179	Mm.3904	NM.008003	Fgf15	Fibroblast growth factor_15
180	Mm.12814	NM.008004	Fgf17	Fibroblast growth factor_17
181	Mm.163	NM.009735	B2m	Beta-2-microglobulin
182	Mm.339812	NM.008005	Fgf18	Fibroblast growth factor_18
183	Mm.57094	NM.008006	Fgf2	Fibroblast growth factor_2
184	Mm.376109	NM.030610	Fgf20	Fibroblast growth factor_20
185	Mm.347933	NM.022657	Fgf23	Fibroblast growth factor_23
186	Mm.4947	NM.008007	Fgf3	Fibroblast growth factor_3
187	Mm.4956	NM.010202	Fgf4	Fibroblast growth factor_4
188	Mm.5055	NM.010203	Fgf5	Fibroblast growth factor_5
189	Mm.3403	XM.485825	Fgf6	Fibroblast growth factor_6
190	Mm.330557	NM.008008	Fgf7	Fibroblast growth factor_7
191	Mm.4012	NM.010205	Fgf9	Fibroblast growth factor_9
192	N/A	N/A	AS1R1	Artificial Sequence_1 Related 1 (90% identity)(56/60)
193	Mm.8846	NM.013518	Fgf9	Fibroblast growth factor_9
194	Mm.297978	NM.010216	Fgf	C-fos induced growth factor
195	Mm.194	NM.010229	Fli3	FMS-like tyrosine kinase_3
196	Mm.1658	NM.013520	Fli3l	FMS-like tyrosine kinase_3 ligand
197	Mm.193099	NM.010233	Fn1	Fibronectin_1
198	Mm.163	NM.009735	B2m	Beta-2-microglobulin
199	Mm.170905	NM.011815	Fyb	FYN binding protein
200	Mm.281298	NM.011817	Gadd45g	Growth arrest and DNA-damage-inducible 45 gamma

Product Specification Sheet

Position	UniGene	GenBank	Symbol	Description
201	Mm.258280	NM_008107	Gdf1	Growth differentiation factor 1
202	Mm.40323	NM_145741	Gdf10	Growth differentiation factor 10
203	Mm.298218	XM_125935	Gdf11	Growth differentiation factor 11
204	Mm.31325	NM_011819	Gdf15	Growth differentiation factor 15
205	Mm.343728	NM_019506	Gdf2	Growth differentiation factor 2
206	Mm.299742	NM_008108	Gdf3	Growth differentiation factor 3
207	Mm.4744	NM_008109	Gdf5	Growth differentiation factor 5
208	N/A	N/A	AS1R2	Artificial Sequence 1 Related 2 (80% identity)(48/60)
209	Mm.302555	NM_013526	Gdf6	Growth differentiation factor 6
210	Mm.271308	NM_013527	Gdf7	Growth differentiation factor 7
211	Mm.3514	NM_010834	Gdf8	Growth differentiation factor 8
212	Mm.9714	NM_008110	Gdf9	Growth differentiation factor 9
213	Mm.257927	NM_011820	Gntla1	(Gamma-glutamyltransferase-like activity 1
214	Mm.3986	NM_010284	Ghr	Growth hormone receptor
215	Mm.41417	NM_133248	Gimn	Gliomulin_FKBP associated protein
216	Mm.589	NM_008155	Gni1	Glucose phosphate isomerase 1
217	Mm.103813	XM_894898	Gpr2	7-transmembrane G-protein coupled receptor 2 (Gpr2)
218	Mm.32160	NM_175493	Gnr68	G protein-coupled receptor 68
219	Mm.166318	NM_011824	Grem1	Gremlin 1
220	Mm.25760	NM_011825	Grem2	Gremlin 2 homologue, cysteine knot superfamily (Xenopus laevis)
221	Mm.1568	NM_008175	Grn	Granulin
222	Mm.2168	NM_010406	Hc	Hemolytic complement
223	Mm.277092	NM_181273	Hcsh	Hcshlaestin
224	N/A	N/A	AS1R3	Artificial Sequence 1 Related 3 (70% identity)(43/60)
225	Mm.2681	NM_010424	Hfe	Hemochromatosis
226	Mm.23790	NM_010433	Hick2	Homeodomain interacting protein kinase 2
227	Mm.336087	NM_008253	Hmoh3	High mobility group box 3
228	Mm.26730	NM_017370	Hp	Haptoglobin
229	Mm.299381	NM_013556	Hprt1	Hypoxanthine guanine phosphoribosyl transferase 1
230	Mm.17819	NM_015790	Icosl	Icos ligand
231	Mm.502	NM_010508	Ifnar1	Interferon (alpha and beta) receptor 1
232	Mm.6834	NM_010509	Ifnar2	Interferon (alpha and beta) receptor 2
233	Mm.1245	NM_010510	Ifnb1	Interferon beta 1, fibroblast
234	Mm.240327	NM_008337	Ifng	Interferon gamma
235	Mm.549	NM_010511	Ifng1	Interferon gamma receptor 1
236	Mm.386929	NM_199157	Ifnk	Interferon kappa precursor
237	Mm.7454	NM_008784	Igfbp1	Immuno globulin (CD79A) binding protein 1
238	Mm.84043	NM_015777	Igfbp1b	Immuno globulin (CD79A) binding protein 1b
239	Mm.874	NM_010548	Il10	Interleukin 10
240	Mm.26658	NM_008348	Il10ra	Interleukin 10 receptor, alpha
241	Mm.4154	NM_008349	Il10rb	Interleukin 10 receptor, beta
242	Mm.35814	NM_008350	Il11	Interleukin 11
243	Mm.193451	NM_010549	Il11ra1	Interleukin 11 receptor, alpha chain 1
244	Mm.103783	NM_008351	Il12a	Interleukin 12A
245	Mm.239707	NM_008352	Il12b	Interleukin 12B
246	Mm.731	NM_008353	Il12rb1	Interleukin 12 receptor, beta 1
247	Mm.188337	NM_008354	Il12rb2	Interleukin 12 receptor, beta 2
248	Mm.1284	NM_008355	Il13	Interleukin 13
249	Mm.24208	NM_133990	Il13ra1	Interleukin 13 receptor, alpha 1
250	Mm.4392	NM_008357	Il15	Interleukin 15
251	Mm.200196	NM_008358	Il15ra	Interleukin 15 receptor, alpha chain
252	Mm.10137	NM_010551	Il16	Interleukin 16
253	Mm.5419	NM_010552	Il17	Interleukin 17
254	Mm.59313	NM_019508	Il17b	Interleukin 17B
255	Mm.4481	NM_008359	Il17r	Interleukin 17 receptor
256	Mm.269363	NM_019583	Il17rb	Interleukin 17 receptor B
257	Mm.1410	NM_008360	Il18	Interleukin 18
258	Mm.253664	NM_008365	Il18r1	Interleukin 18 receptor 1
259	Mm.20466	NM_010553	Il18rap	Interleukin 18 receptor accessory protein
260	Mm.131480	NM_001009940	Il19	Interleukin 19
261	Mm.15534	NM_010554	Il1a	Interleukin 1, alpha
262	Mm.222830	NM_008361	Il1b	Interleukin 1, beta
263	Mm.218750	NM_153077	Il1f10	Interleukin 1 family, member 10
264	Mm.29261	NM_019451	Il1f5	Interleukin 1 family, member 5 (delta)
265	Mm.133095	NM_019450	Il1f6	Interleukin 1 family, member 6
266	Mm.45901	XM_130058	Il1f8	Interleukin 1 family, member 8
267	Mm.249379	NM_153611	Il1f9	Interleukin 1 family, member 9
268	Mm.896	NM_008362	Il1r1	Interleukin 1 receptor, type I
269	Mm.1349	NM_010555	Il1r2	Interleukin 1 receptor, type II
270	Mm.253424	NM_008364	Il1ran	Interleukin 1 receptor accessory protein
271	Mm.386787	NM_030698	Il1rap2	Interleukin 1 receptor accessory protein-like 2
272	Mm.28924	NM_010743	Il1r1l	Interleukin 1 receptor-like 1
273	Mm.155583	NM_133193	Il1r2l	Interleukin 1 receptor-like 2
274	Mm.882	NM_031167	Il1rn	Interleukin 1 receptor antagonist
275	Mm.14190	NM_008366	Il2	Interleukin 2
276	Mm.103794	NM_021380	Il20	Interleukin 20
277	Mm.157689	NM_021782	Il21	Interleukin 21
278	Mm.155643	NM_021887	Il21r	Interleukin 21 receptor
279	Mm.103585	NM_016971	Il22	Interleukin 22
280	Mm.331979	NM_178258	Il22ra2	Interleukin 22 receptor, alpha 2
281	Mm.196691	NM_053095	Il24	Interleukin 24
282	Mm.38386	NM_016671	Il27ra	Interleukin 27 receptor, alpha
283	Mm.246739	NM_177396	Il28	Interleukin 28
284	Mm.259623	NM_174851	Il28ra	Interleukin 28 receptor, alpha
285	Mm.915	NM_008367	Il2ra	Interleukin 2 receptor, alpha chain
286	Mm.35287	NM_008368	Il2rb	Interleukin 2 receptor, beta chain
287	Mm.2923	NM_013563	Il2rg	Interleukin 2 receptor, gamma chain
288	Mm.983	NM_010556	Il3	Interleukin 3
289	Mm.4944	NM_008369	Il3ra	Interleukin 3 receptor, alpha chain
290	Mm.276360	NM_021283	Il4	Interleukin 4
291	Mm.233802	NM_010557	Il4ra	Interleukin 4 receptor, alpha
292	Mm.4461	NM_010558	Il5	Interleukin 5
293	Mm.3448	NM_008370	Il5ra	Interleukin 5 receptor, alpha
294	Mm.1019	NM_031168	Il6	Interleukin 6
295	Mm.2856	NM_010559	Il6ra	Interleukin 6 receptor, alpha
296	Mm.4364	NM_010560	Il6st	Interleukin 6 signal transducer
297	Mm.3825	NM_008371	Il7	Interleukin 7
298	Mm.389	NM_008372	Il7r	Interleukin 7 receptor
299	Mm.234466	NM_009909	Il8rb	Interleukin 8 receptor, beta
300	Mm.3006	NM_008373	Il9	Interleukin 9
301	Mm.384	NM_008374	Il9r	Interleukin 9 receptor
302	Mm.260707	NM_011829	Imodh1	Inosine 5'-phosphate dehydrogenase 1
303	Mm.6065	NM_011830	Imodh2	Inosine 5'-phosphate dehydrogenase 2
304	Mm.105218	NM_008390	Irf1	Interferon regulatory factor 1
305	Mm.3960	NM_016849	Irf3	Interferon regulatory factor 3

Product Specification Sheet

Position	UniGene	GenBank	Symbol	Description
306	Mm.4677	NM_013674	Irf4	Interferon regulatory factor 4
307	Mm.3233	NM_016850	Irf7	Interferon regulatory factor 7
308	Mm.2032	NM_008394	Isof3g	Interferon dependent positive actin transcription factor 3 gamma
309	Mm.262106	NM_008401	Iioam	Intein alpha M
310	Mm.1137	NM_008404	Iitb2	Intein beta 2
311	Mm.45124	NM_013598	Kitl	Kit ligand
312	Mm.245297	NM_008455	Klkb1	Kallikrein B plasma 1
313	Mm.2160	NM_023125	Kno1	Kinogen 1
314	Mm.4528	NM_008479	Lac3	Lymphocyte activation gene 3
315	Mm.10280	NM_010689	Lac2	Linker for activation of T cells
316	Mm.265350	NM_010696	Lcp2	Lymphocyte cytosolic protein 2
317	Mm.378911	NM_010094	Lefty1	Left right determination factor 1
318	Mm.259282	NM_010704	Lepr	Leptin receptor
319	Mm.4964	NM_008501	Lif	Leukemia inhibitory factor
320	Mm.149720	NM_013584	Lifr	Leukemia inhibitory factor receptor
321	Mm.87787	NM_010735	Lta	Lymphotoxin A
322	Mm.1715	NM_008518	Ltb	Lymphotoxin B
323	Mm.2639	NM_010745	Lv86	Lymphocyte antigen 86
324	Mm.116844	NM_016923	Lv96	Lymphocyte antigen 96
325	Mm.342337	NM_010748	Lvst	Lysosomal trafficking regulator
326	Mm.18494	NM_008928	Man2k3	Mannan activated protein kinase kinase 3
327	Mm.1213	NM_008555	Maso1	Mannan-binding lectin serine peptidase 1
328	Mm.378862	NM_010767	Maso2	Mannan-binding lectin serine peptidase 2
329	Mm.281805	NM_010775	Mbl1	Mannose binding lectin (A)
330	Mm.30045	NM_010776	Mbl2	Mannose binding lectin (C)
331	Mm.7409	NM_010781	Mcp6	Mast cell protease 6
332	Mm.143718	NM_019453	Mefv	Mediterranean fever
333	Mm.2326	NM_010798	Mif	Macrophage migration inhibitory factor
334	Mm.42967	NM_176893	Mink1	Missshapen-like kinase 1 (zebrafish)
335	Mm.4864	NM_010823	Mpl	Myeloproliferative leukemia virus oncogene
336	Mm.4046	NM_007641	Ms4a1	Membrane-spanning 4-domains subfamily A member 1
337	Mm.237772	NM_031188	Mup1	Major urinary protein 1
338	Mm.33996	NM_010846	Mx1	Mxovirus (influenza virus) resistance 1
339	Mm.14157	NM_013606	Mx2	Mxovirus (influenza virus) resistance 2
340	Mm.213003	NM_010851	Mvd88	Mveloid differentiation primary response gene 88
341	Mm.4149	NM_010876	Ncf1	Neutrophil cytosolic factor 1
342	Mm.4063	NM_010884	Ndrn1	N-myc downstream regulated gene 1
343	Mm.256765	NM_008689	Nfkb1	Nuclear factor of kappa light chain gene enhancer in B-cells 1, p105
344	Mm.57195	NM_013611	Nodal	Nodal
345	Mm.267570	NM_008742	Nfr3	Neurotrophin 3
346	Mm.20344	NM_198190	Nfr5	Neurotrophin 5
347	Mm.293626	NM_138648	Olr1	Oxidized low density lipoprotein (lectin-like) receptor 1
348	Mm.327932	NM_020622	ORF9	Open reading frame 9
349	Mm.4777	NM_008768	Orm1	Orosomucoid 1
350	Mm.14173	NM_011016	Orm2	Orosomucoid 2
351	Mm.131422	NM_001013365	Osm	Oncostatin M
352	Mm.281452	NM_008772	P2rv1	Purinergic receptor P2Y, G-protein coupled 1
353	Mm.2553	NM_011026	Pao	Pancreatitis-associated protein
354	Mm.336104	NM_125814	Pawr	PRK C, apoptosis, Wt1, regulator
355	Mm.116737	NM_021396	Pcd1ln2	Programmed cell death 1 ligand 2
356	Mm.3064	NM_008823	Pfc	Properdin factor complement
357	Mm.21855	NM_009402	Pnlvrm1	Pentilolivan recognition protein 1
358	Mm.267473	NM_621403	Phf20l1	PHD finger protein 20-like 1
359	Mm.229108	NM_008840	Pik3cd	Phosphatidylinositol 3-kinase catalytic delta polypeptide
360	Mm.259333	NM_011085	Pik3r1	Phosphatidylinositol 3-kinase regulatory subunit polypeptide 1 (p85 alpha)
361	Mm.9277	NM_013737	Pla2g7	Phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)
362	Mm.22724	NM_172695	Pla2	Phospholipase A2, activating protein
363	Mm.2180	NM_008302	Hs90a1	Heat shock 90kDa protein 1, beta
364	Mm.212333	NM_011128	Pnlipr2	Pancreatic lipase-related protein 2
365	Mm.260194	NM_017401	Polm	Polymerase (DNA directed), mu
366	Mm.208700	NM_011138	Pou2f2	POU domain class 2 transcription factor 2
367	Mm.3020	NM_011146	Pparalpha	Peroxisome proliferator activated receptor gamma
368	Mm.274432	NM_008914	Ppp3cb	Protein phosphatase 3, catalytic subunit, beta isoform
369	Mm.222178	NM_011101	Prkca	Protein kinase C, alpha (Prkca), mRNA
370	Mm.2314	NM_011103	Prkcd	Protein kinase C, delta
371	Mm.329993	NM_008859	Prkce	Protein kinase C, theta
372	Mm.10516	NM_011169	Prlr	Prolactin receptor
373	Mm.89389	NM_357441	Platf	Platelet-activating factor receptor
374	Mm.30424	NM_011196	Platg3	Prostanoidin F receptor 3 (subtype EP3)
375	Mm.383399	NM_012120	Platg4	Protein tyrosine phosphatase receptor type C
376	Mm.24163	NM_023258	Pvcaard	PVD and CARD domain containing
377	Mm.321105	NM_198193	Pvcaard	Relin-like acid-activated transcription gamma
378	Mm.2180	NM_008302	Hs90a1	Heat shock 90kDa protein 1, beta
379	Mm.828	NM_009019	Rag1	Recombination activating gene 1
380	Mm.4988	NM_009020	Rag2	Recombination activating gene 2
381	Mm.209292	NM_009035	Rbnsuh	Recombination binding protein suppressor of hairless (Drosophila)
382	Mm.2552	NM_011259	Reg3a	Regenerating islet-derived 3 alpha
383	Mm.252385	NM_011260	Reg3c	Regenerating islet-derived 3 gamma
384	Mm.4869	NM_009044	Rel	Reticuloendotheliosis oncogene
385	Mm.249966	NM_009045	Rela	V-rel reticuloendotheliosis viral oncogene homolog A (avian)
386	Mm.1741	NM_009046	Relb	Avian reticuloendotheliosis viral (v-rel) oncogene related B
387	Mm.103701	NM_015811	Ros1	Regulator of G-protein signaling 1
388	Mm.280038	NM_016740	S100a11	S100 calcium binding protein A11 (calizzarin)
389	Mm.200941	NM_011314	Saa2	Serum amyloid A 2
390	Mm.14277	NM_011315	Saa3	Serum amyloid A 3
391	Mm.3489	NM_011316	Saa4	Serum amyloid A 4
392	Mm.22802	NM_170727	Scob3a1	Secretorin-like family 3A member 1
393	Mm.2180	NM_008302	Hs90a1	Heat shock 90kDa protein 1, beta
394	Mm.235137	NM_007926	Scv1	Small inducible cytokine subfamily F, member 1
395	Mm.247473	NM_016807	Sclbn	Scudexin binding protein
396	Mm.3337	NM_011347	Selc	Selectin, platelet
397	Mm.347501	NM_009244	Serpin1b	Serine (or cysteine) peptidase inhibitor, clade A, member 1b
398	Mm.22650	NM_009252	Serpin3n	Serine (or cysteine) peptidase inhibitor, clade A, member 3N
399	Mm.279733	NM_008878	Serpinf2	Serine (or cysteine) peptidase inhibitor, clade F, member 2
400	Mm.38888	NM_009776	Serpinf1	Serine (or cysteine) peptidase inhibitor, clade G, member 1
401	Mm.1392	NM_011355	Sh2	SH2 domain interaction 1
402	Mm.235391	NM_011364	Sh2d11a	SH2 domain protein 1A
403	Mm.289812	NM_013929	Siva	Cd27 binding protein (Hindu God of destruction)
404	Mm.315626	NM_130688	Sia2	Src-like-adapter 2
405	Mm.103648	NM_013730	Slamf1	Signaling lymphocytic activation molecule family member 1
406	Mm.27630	NM_020519	Slurp1	Secreted Lv6/Plaur domain containing 1
407	Mm.124328	NM_011450	So3	Trans-acting transcription factor 3
408	Mm.2180	NM_008302	Hs90a1	Heat shock 90kDa protein 1, beta
409	Mm.283714	NM_009259	Son	Sialophorin
410	Mm.288474	NM_009263	Spp1	Secreted phosphoprotein 1

Product Specification Sheet

Position	UniGene	GenBank	Symbol	Description
411	Mm.245890	NM_033524	Srsd1	Srcruty protein with EVH-1 domain 1-related sequence
412	Mm.266627	NM_033523	Srsd2	Srcruty-related EVH1 domain containing 2
413	Mm.220821	NM_138672	Stab1	Stabilin 1
414	Mm.249934	NM_011486	Stat3	Signal transducer and activator of transcription 3
415	Mm.277403	NM_011488	Stat5a	Signal transducer and activator of transcription 5A
416	Mm.34064	NM_011489	Stat5b	Signal transducer and activator of transcription 5B
417	Mm.128273	NM_022724	Suv39h2	Suppressor of variegation 3-9 homolog 2 (Drosophila)
418	Mm.375031	NM_011518	Syk	Spleen tyrosine kinase
419	Mm.1440	NM_009311	Tac1	Tachykinin 1
420	Mm.154457	NM_009318	Taobn	TAP binding protein
421	Mm.94519	NM_019507	Tbx21	T-box 21
422	Mm.248380	NM_011577	Tcfh1	Transforming growth factor, beta 1
423	Mm.3943	NM_009379	Thpo	Thrombopoietin
424	Mm.23987	NM_054096	Tirap	Toll-interleukin 1 receptor (TIR) domain-containing adaptor protein
425	Mm.273024	NM_030682	Tir1	Toll-like receptor 1
426	Mm.87596	NM_011905	Tir2	Toll-like receptor 2
427	Mm.33874	NM_126166	Tir3	Toll-like receptor 3
428	Mm.38049	NM_021297	Tir4	Toll-like receptor 4
429	Mm.116894	XM_916118	Tir5	Toll-like receptor 5
430	Mm.42146	NM_011604	Tir6	Toll-like receptor 6
431	Mm.23979	NM_133211	Tir7	Toll-like receptor 7
432	Mm.186676	NM_133212	Tir8	Toll-like receptor 8
433	Mm.5246	NM_008907	Poia	Peptidylprolyl isomerase A
434	Mm.44889	NM_031178	Tir9	Toll-like receptor 9
435	Mm.1293	NM_013693	Tnf	Tumor necrosis factor
436	Mm.265915	NM_021349	Tnfrsf13b	Tumor necrosis factor receptor superfamily member 13b
437	Mm.240047	NM_028075	Tnfrsf13c	Tumor necrosis factor receptor superfamily member 13c
438	Mm.1258	NM_011609	Tnfrsf1a	Tumor necrosis factor receptor superfamily member 1a
439	Mm.235328	NM_011610	Tnfrsf1b	Tumor necrosis factor receptor superfamily member 1b
440	Mm.13885	NM_011659	Tnfrsf4	Tumor necrosis factor receptor superfamily member 4
441	Mm.1062	NM_009425	Tnfrsf10	Tumor necrosis factor (ligand) superfamily member 10
442	Mm.249221	NM_011613	Tnfrsf11	Tumor necrosis factor (ligand) superfamily member 11
443	Mm.344820	NM_011614	Tnfrsf12	Tumor necrosis factor (ligand) superfamily member 12
444	Mm.8983	NM_023517	Tnfrsf13	Tumor necrosis factor (ligand) superfamily member 13
445	N/A	U08752	PUC18	pUC18
446	N/A	AF000461		Escherichia coli K12 MG1655 section 351 of 400 of the complete genome
447	Blank	Blank	Blank	Blank
448	Blank	Blank	Blank	Blank
449	Mm.5246	NM_008907	Poia	Peptidylprolyl isomerase A
450	Blank	Blank	Blank	Blank
451	Blank	Blank	Blank	Blank
452	Mm.28835	NM_033622	Tnfrsf13h	Tumor necrosis factor (ligand) superfamily member 13h
453	Mm.307668	NM_019418	Tnfrsf14	Tumor necrosis factor (ligand) superfamily member 14
454	Mm.4994	NM_009452	Tnfrsf4	Tumor necrosis factor (ligand) superfamily member 4
455	Mm.42228	NM_011617	Tnfrsf7	Tumor necrosis factor (ligand) superfamily member 7
456	Mm.4664	NM_009403	Tnfrsf8	Tumor necrosis factor (ligand) superfamily member 8
457	Mm.41171	NM_009404	Tnfrsf9	Tumor necrosis factor (ligand) superfamily member 9
458	Mm.103551	NM_023764	Tollip	Toll intracellular protein
459	Mm.35771	NM_016715	Tnfr2	Transmembrane phosphoinositide 3-phosphatase and tensin homolog 2
460	N/A	AY057791	12SrRNA	Mus musculus 12S ribosomal RNA
461	Mm.297	NM_007393	Actb	Actin, beta, cytoplasmic
462	Mm.104368	NM_172086	Rpl32	Ribosomal protein L32
463	Mm.336205	NM_008828	Pak1	Phosphoglycerate kinase 1
464	Mm.275831	NM_007438	Aldo1	Aldolase 1, A isoform
465	Mm.5246	NM_008907	Poia	Peptidylprolyl isomerase A
466	Mm.5246	NM_008907	Poia	Peptidylprolyl isomerase A
467	Mm.3399	NM_009422	Traf2	Tnf receptor-associated factor 2
468	Mm.292729	NM_009424	Traf6	Tnf receptor-associated factor 6
469	Mm.28622	NM_145367	Txnrc5	Thioredoxin domain containing 5
470	Mm.248172	NM_011691	Vav1	Vav 1 oncogene
471	Mm.4735	NM_009515	Was	Wiskott-Aldrich syndrome homolog (human)
472	Mm.190	NM_008510	Xcl1	Chemokine (C motif) ligand 1
473	Mm.89202	NM_011798	Xcr1	Chemokine (C motif) receptor 1
474	Mm.8038	NM_009539	Zap70	Zeta-chain (TCR) associated protein kinase
475	Mm.333723	NM_011756	Zfp36	Zinc finger protein 36
476	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary s
477	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary s
478	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary s
479	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary s
480	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary s