

Oligo GEMArray[®] DNA Microarray:

Mouse Dendritic and Antigen Presenting Cell

Catalog Number

OMM-406
EMM-406

Format:

HybTube (Standard protocol)
HybPlate (Higher throughput protocol)

Description

The Oligo GEMArray[®] Mouse Dendritic and Antigen Presenting Cell Microarray profiles the expression of 260 genes focused on dendritic cell activation and maturation. Genes important for dendritic cell activation and maturation such as cytokines, chemokines and their receptors are included on this array along with other related cell surface receptors and signal transduction molecules. Genes involved in antigen uptake, processing, and presentation are also represented on this array. In addition to being functionally defined, many of these genes on the array are highly expressed in mature dendritic cells or show significant changes in expression during cell differentiation. Through a simple side-by-side hybridization experiment you can determine differential gene expression between your samples.

Functional Gene Groupings

Cytokines, Chemokines and Their Receptors: Areg, Ccl1, Ccl11, Ccl17, Ccl19, Ccl2, Ccl20, Ccl21a, Ccl22, Ccl24, Ccl25, Ccl27, Ccl28, Ccl3, Ccl4, Ccl5, Ccl6, Ccl7, Ccl8, Ccr1, Ccr2, Ccr3, Ccr5, Ccr6, Ccr7, Cer1, Cklf, Cmtm1, Csf1, Csf2, Csf3, Ctf1, Ctf2, Cx3cl1, Cxcl1, Cxcl10, Cxcl11, Cxcl12, Cxcl13, Cxcl14, Cxcl15, Cxcl16, Cxcl2, Cxcl4, Cxcl5, Cxcl7, Cxcl9, Cxcr4, Cyp26b1, Eda, Erbb2, Fasl, Flt3l, Flt4, Gdf1, Gdf2, Gdf3, Gdf5, Gdf6, Gdf7, Grem1, Grem2, Grn, Ifna1, Ifna11, Ifna12, Ifna13, Ifnb1, Ifng, Ifngr1, Ik, Il10, Il11, Il12a, Il12b, Il13, Il15, Il16, Il17, Il17b, Il17c, Il17d, Il17f, Il18, Il19, Il1a, Il1b, Il2, Il23a, Il24, Il27, Il3, Il4, Il5, Il6, Il8ra, Inha, Inhba, Inhbb, Lefty1, Lefty2, Lif, Lyn, Mdk, Mif, Nodal, Osm, Ptn, Pxmp2, Scg2, Scgb1a1, Scye1, Sectm1, Slurp1, Spp1, Tgfb2, Thpo, Tnf, Tnfrsf11b, Tnfsf11, Tnfsf14, Tnfsf4, Tnfsf9, Trap1, Xcl1.

Antigen Uptake: Cd44, Cd68, Cdc42, D3Bwg0562e, Dcp1b, Dctn2, Icam1, Icam2, Icos, Igsf6, Lip1, Map4k3, Marcks, Marcksl1, Mt2, Mtrf1, Mx1, Mx2, Nr3c2, Pfn1, Pim2, Pnrc1, Por, Prg1, Prkra, Pscdbp, Rac1, Rnase6, Sod2, Stk4, Tap1, Tap2, Tra1.

Antigen Presentation: Adamdec1, Arts1, B2m, Cd1d1, Cd2, Cd207, Cd209a, Cd52, Cd74, Cd80, Cd83, Cd86, Cd8a, Clec4a2, Clec4d, Clec7a, Ecgf1, H2-DMA, Lamp3, Tapbp, Tm7sf4.

Cell Surface Receptors: Anpep, Cd28, Cd33, Cd36, Cd4, Cd40, Cd47, Cd5, Cd7, Fcer1a, Fcer1g, Fcer2a, Fcgr1, Fcgr2b, Fcgr3, Fcgr3a, Itgax, Lrp1, Ly75, Plaur, Tlr1, Tlr2, Tlr3, Tlr4, Tlr5, Tlr6, Tlr7, Tlr9.

Signal Transduction: Acpp, Adam19, Adar, Arhgdib, Atf4, Atm, B3galt2, Basp1, Btg1, C1ql1, Cct6a, Cd40lg, Cdkn1a, Cebpa, Cflar, Chd4, Creb1, Csf1r, Cst3, Cst7, Ebi3, F13a1, Fas, Fscn3, G1p2, Gbp2, Gbp4, Gpx4, Icosl, Ifi204, Ifi27, Ifi30, Ifi35, Ifi44, Ifit1, Ifit2, Ifit3, Ifitm3, Ifnk, Isg20, Itgam, Itgb2, Klrc2, Lta, Nfkb1, Nfkb2, Pdafa, Pdia3, Pri, Rela, Relb, S100a4, S100b, Vcl, Zfp398.

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

1. Ohashi PS and DeFranco AL. Making and breaking tolerance. *Curr Opin in Immunol.* 2002, **14**: 744-759.
2. Turley SJ. Dendritic cells: inciting and inhibiting autoimmunity. *Curr Opin in Immunol.* 2002, **14**: 765-770.
3. Morse MA, Mosca PJ, Clay TM, Lyerly CH. Dendritic cell maturation in active immunotherapy strategies. *Expert Opin Biol Ther.* 2002 **2**(1): 35-43.
4. Granucci F, Castagnoli PR, Rogge L & Sinigaglia F. Gene expression profiling in immune cells using microarray. 2001. **126**: 257-266.
5. Hashimoto S, Suzuki T, Nagai S, Yamashita T, Toyota N & Matsushima K. Identification of genes specifically expressed in human activated and mature dendritic cells through serial analysis of gene expression. *Blood.* 2000 (6): 2206-2214.

Product Specification Sheet

Oligo GEArray[®] Mouse Dendritic and Antigen Presenting Cell Microarray

Array Layout:

Gapd 1	Gapd 2	Acpp 3	Adam19 4	Adamdec1 5	Adar 6	Anep 7	Areg 8	Arhgdib 9	Ppia 10	Ppia 11	Ppia 12
Gapd 13	Arts1 14	Atf4 15	Atm 16	B2m 17	B3galt2 18	Basp1 19	Btg1 20	C1ql1 21	Ccl1 22	Ccl11 23	Ccl17 24
Ccl19 25	Ccl2 26	Ccl20 27	Ccl21a 28	Ccl22 29	Ccl24 30	Ccl25 31	Ccl27 32	Ccl28 33	Ccl3 34	Ccl4 35	Ccl5 36
Ccl6 37	Ccl7 38	Ccl8 39	Ccr1 40	Ccr2 41	Ccr3 42	Ccr5 43	Ccr6 44	Ccr7 45	Ccl6a 46	Cd1d1 47	Cd2 48
Cd207 49	Cd209a 50	Cd28 51	Cd33 52	Cd36 53	Cd4 54	Cd40 55	Cd40lg 56	Cd44 57	Cd47 58	Cd5 59	Cd52 60
Cd68 61	Cd7 62	Cd74 63	Cd80 64	Cd83 65	Cd86 66	Cd8a 67	Cdc42 68	Cdkn1a 69	Cebpa 70	Cer1 71	Cflar 72
Chd4 73	Klif 74	Clec4a2 75	Clec4d 76	Clec7a 77	Cmtm1 78	Creb1 79	Csf1 80	Csf1r 81	Csf2 82	Csf3 83	Cst3 84
Cst7 85	Ctf1 86	Ctf2 87	Cx3cl1 88	Cxcl1 89	Cxcl10 90	Cxcl11 91	Cxcl12 92	Cxcl13 93	Cxcl14 94	Cxcl15 95	Cxcl16 96
Cxcl2 97	Cxcl4 98	Cxcl5 99	Cxcl7 100	Cxcl9 101	Cxcr4 102	Cyp26b1 103	D3Bwg0562e 104	Dcp1b 105	Dctn2 106	Ebi3 107	Ecgf1 108
Eda 109	Erb2 110	F13a1 111	Fas 112	Fasl 113	Fcer1a 114	Fcer1g 115	Fcer2a 116	Fcgr1 117	Fcgr2b 118	Fcgr3 119	Fcgr3a 120
Flt3l 121	Flt4 122	Fscn3 123	G1p2 124	Gbp2 125	Gbp4 126	Gdf1 127	Gdf2 128	Gdf3 129	Gdf5 130	Gdf6 131	Gdf7 132
Gpx4 133	Grem1 134	Grem2 135	Gm 136	H2-DMA 137	Icam1 138	Icam2 139	Icos 140	Icosl 141	Ifi204 142	Ifi27 143	Ifi30 144
Ifi35 145	Ifi44 146	Ifit1 147	Ifit2 148	Ifit3 149	Ifitm3 150	Ifna1 151	Ifna11 152	Ifna12 153	Ifna13 154	Ifnb1 155	Ifng 156
Ifngr1 157	Ifnk 158	Igsf6 159	Ik 160	Il10 161	Il11 162	Il12a 163	Il12b 164	Il13 165	Il15 166	Il16 167	Il17 168
Il17b 169	Il17c 170	Il17d 171	Il17f 172	Il18 173	Il19 174	Il1a 175	Il1b 176	Il2 177	Il23a 178	Il24 179	Il27 180
Il3 181	Il4 182	Il5 183	Il6 184	Il8a 185	Inha 186	Inhba 187	Inhbb 188	Isg20 189	Ilgam 190	Ilgax 191	Ilgb2 192
Klrc2 193	Lamp3 194	Lefty1 195	Lefty2 196	Lif 197	Lip1 198	Lrp1 199	Lta 200	Ly75 201	Lyn 202	Map4k3 203	Marcks 204
Marcks1 205	Mdk 206	Mif 207	Mt2 208	Mtrf1 209	Mx1 210	Mx2 211	Nfkb1 212	Nfkb2 213	Nodal 214	Nr3c2 215	Osm 216
Pdgfa 217	Pdia3 218	Pfn1 219	Pim2 220	Plaur 221	Pnrc1 222	Por 223	Prg1 224	Prkra 225	Pri 226	Pscdbp 227	Ptn 228
Pxmp2 229	Rac1 230	Rela 231	Relb 232	Rnase6 233	S100a4 234	S100b 235	Scg2 236	Scgb1a1 237	Scye1 238	Sectm1 239	Slurp1 240
Sod2 241	Spp1 242	Stk4 243	Tap1 244	Tap2 245	Tapbp 246	Tgfb2 247	Thpo 248	Tlr1 249	Tlr2 250	Tlr3 251	Tlr4 252
Rps27a 253	Tlr5 254	Tlr6 255	Tlr7 256	Tlr9 257	Tm7sf4 258	Tnf 259	Tnfrsf11b 260	Tnfsf11 261	Tnfsf14 262	Pol1 263	PUC18 264
B2m 265	Blank 266	Blank 267	Tnfsf4 268	Tnfsf9 269	Tra1 270	Trap1 271	12SrRNA 272	AS1R3 273	AS1R2 274	AS1R1 275	AS1 276
B2m 277	B2m 278	Hspcb 279	Vcl 280	Xcl1 281	Zfp398 282	Blank 283	BAS2C 284	BAS2C 285	BAS2C 286	BAS2C 287	BAS2C 288

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Gene Table

Position	UniGene	GenBank	Symbol	Description	Gene Name
1	Mm.333399	NM_008084	Gapd	Glyceraldehyde-3-phosphate dehydrogenase	GAPDH
2	Mm.333399	NM_008084	Gapd	Glyceraldehyde-3-phosphate dehydrogenase	GAPDH
3	Mm.19941	NM_019807	Acpp	Acid phosphatase, prostate	A030005E02Rik/AI324033
4	Mm.89940	NM_009616	Adam19	A disintegrin and metallopeptidase domain 19 (meltrin beta)	AL024287/M[b]
5	Mm.36742	NM_021475	Adamdec1	ADAM-like, decysin 1	2210414L24Rik/AI574231
6	Mm.316628	NM_019655	Adar	Adenosine deaminase, RNA-specific	AV242451/Adar1
7	Mm.4487	NM_008486	Anpep	Alanyl (membrane) aminopeptidase	Apn/Cd13
8	Mm.8039	NM_009704	Areg	Amphiregulin	AR/Sdgf
9	Mm.2241	NM_007486	Arhgdib	Rho, GDP dissociation inhibitor (GDI) beta	D4/Gdi4
10	Mm.5246	NM_008907	Ppia	Peptidylprolyl isomerase A	CyclophilinA
11	Mm.5246	NM_008907	Ppia	Peptidylprolyl isomerase A	CyclophilinA
12	Mm.5246	NM_008907	Ppia	Peptidylprolyl isomerase A	CyclophilinA
13	Mm.333399	NM_008084	Gapd	Glyceraldehyde-3-phosphate dehydrogenase	GAPDH
14	Mm.83526	NM_030711	Arts1	Type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	ERAAP/PILSA
15	Mm.641	NM_009716	Atf4	Activating transcription factor 4	Atf-4/C
16	Mm.5088	NM_007499	Atm	Ataxia telangiectasia mutated homolog (human)	AI256621/C030026E19Rik
17	Mm.163	NM_009735	B2m	Beta-2 microglobulin	Ly-m11/beta-2-m
18	Mm.285580	NM_020025	B3gal2	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	B3GALT2
19	Mm.29586	NM_027395	Basp1	Brain abundant, membrane attached signal protein 1	2610024P12Rik/CAP-23
20	Mm.272183	NM_007569	Big1	B-cell translocation gene 1, anti-proliferative	AW546738
21	Mm.57154	NM_011795	C1ql1	Complement component 1, q subcomponent-like 1	C1qrf/CRF
22	Mm.1283	NM_011329	Ccl1	Chemokine (C-C motif) ligand 1	BF534335/I-309
23	Mm.4686	NM_011330	Ccl11	Small chemokine (C-C motif) ligand 11	Scya11/eotaxin
24	Mm.41988	NM_011332	Ccl17	Chemokine (C-C motif) ligand 17	ABCD-2/Scya17
25	Mm.379051	NM_011888	Ccl19	Chemokine (C-C motif) ligand 19	CKb11/ELC
26	Mm.290320	NM_011333	Ccl2	Chemokine (C-C motif) ligand 2	AI323594/HC11
27	Mm.116739	NM_016960	Ccl20	Chemokine (C-C motif) ligand 20	CKb4/LARC
28	Mm.348219	NM_011335	Ccl21a	Chemokine (C-C motif) ligand 21a	6CKBAC1/6CKine
29	Mm.12895	NM_009137	Ccl22	Chemokine (C-C motif) ligand 22	ABCD-1/DCBCK
30	Mm.31505	NM_019577	Ccl24	Chemokine (C-C motif) ligand 24	CKb-6/MPIF-2
31	Mm.7275	NM_009138	Ccl25	Chemokine (C-C motif) ligand 25	AI852536/CKb15
32	Mm.373540	NM_011336	Ccl27	Chemokine (C-C motif) ligand 27	ALP/AW558992
33	Mm.143745	NM_020279	Ccl28	Chemokine (C-C motif) ligand 28	CCK1/MEC
34	Mm.1282	NM_011337	Ccl3	Chemokine (C-C motif) ligand 3	AI323804/GOS19-1
35	Mm.244263	NM_013652	Ccl4	Chemokine (C-C motif) ligand 4	Act-2/MIP-1B
36	Mm.284248	NM_013653	Ccl5	Chemokine (C-C motif) ligand 5	MuRantes/RANTES
37	Mm.137	NM_009139	Ccl6	Chemokine (C-C motif) ligand 6	MRP-1/Scya6
38	Mm.341574	NM_013654	Ccl7	Chemokine (C-C motif) ligand 7	MCP-3/Scya7
39	Mm.42029	NM_021443	Ccl8	Chemokine (C-C motif) ligand 8	1810063B20Rik/AB023418
40	Mm.274927	NM_009912	Ccr1	Chemokine (C-C motif) receptor 1	Cmkbr1/Mip-1a-R
41	Mm.6272	NM_009915	Ccr2	Chemokine (C-C motif) receptor 2	CC-CKR-2/CCR2A
42	Mm.57050	NM_009914	Ccr3	Chemokine (C-C motif) receptor 3	CC-CKR3/CKR3
43	Mm.14302	NM_009917	Ccr5	Chemokine (C-C motif) receptor 5	AM4-7/CD195
44	Mm.8007	NM_009835	Ccr6	Chemokine (C-C motif) receptor 6	Cmkbr6
45	Mm.2932	NM_007719	Ccr7	Chemokine (C-C motif) receptor 7	CD197/Cdw197
46	Mm.153159	NM_009838	Cct6a	Chaperonin subunit 6a (zeta)	Cct6/Cctz-1
47	Mm.1894	NM_007639	Cd1d1	CD1d1 antigen	AI747460/Cd1a
48	Mm.22842	NM_013486	Cd2	CD2 antigen	LFA-2/Ly-37
49	Mm.136079	NM_144943	Cd207	CD 207 antigen	Langerin
50	Mm.32510	NM_133238	Cd209a	CD209a antigen	CD209/CDSIGN
51	Mm.255003	NM_007642	Cd28	CD28 antigen	CD28
52	Mm.140157	NM_021293	Cd33	CD33 antigen	Siglec-3/gp67
53	Mm.18628	NM_007643	Cd36	CD36 antigen	FAT/GPIV
54	Mm.2209	NM_013488	Cd4	CD4 antigen	L3T4/Ly-4
55	Mm.271833	NM_011611	Cd40	CD40 antigen	AI326936/Bp50
56	Mm.4861	NM_011616	Cd40lg	CD40 ligand	CD154/Cd40l
57	Mm.330428	NM_009851	Cd44	CD44 antigen	AW121933/AW146109
58	Mm.31752	NM_010581	Cd47	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	9130415E20Rik/AA407862
59	Mm.779	NM_007650	Cd5	CD5 antigen	Ly-1/Ly-12
60	Mm.24130	NM_013706	Cd52	CD52 antigen	AI463198/B7
61	Mm.15819	NM_009853	Cd68	CD68 antigen	Scard1/gp110
62	Mm.4100	NM_009854	Cd7	CD7 antigen	CD7
63	Mm.276499	NM_010545	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	CLIP/DHLA
64	Mm.89474	NM_009855	Cd80	CD80 antigen	B7-1/Cd28l
65	Mm.57175	NM_009856	Cd83	CD83 antigen	MGC130312
66	Mm.1452	NM_019388	Cd86	CD86 antigen	B7/B7-2
67	Mm.1858	NM_132621	Cd8a	CD8 antigen, alpha chain	BB154331/Ly-2
68	Mm.1022	NM_009861	Cdc42	Cell division cycle 42 homolog (S. cerevisiae)	AI747189/AU018915
69	Mm.195663	NM_007669	Cdkn1a	Cyclin-dependent kinase inhibitor 1A (P21)	CAP20/CDKI

Product Specification Sheet

Position	UniGene	GenBank	Symbol	Description	Gene Name
70	Mm.349667	NM_007678	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha	CBF-A/Cebp
71	Mm.6780	NM_009887	Cer1	Cerberus 1 homolog (Xenopus laevis)	Cer1/cer-1
72	Mm.11778	NM_009805	Cflar	CASP8 and FADD-like apoptosis regulator	CLARP/Cash
73	Mm.333388	NM_145979	Chd4	Chromodomain helicase DNA binding protein 4	9530019N15Rik/AA617397
74	Mm.269219	NM_029295	Klf4	Chemokine-like factor	1700001C14Rik
75	Mm.47384	NM_011999	Clec4a2	C-type lectin domain family 4, member a2	Clecsf6/DCIR
76	Mm.299633	NM_010819	Clec4d	C-type lectin domain family 4, member d	Clecsf8/Mpcl
77	Mm.239516	NM_020008	Clec7a	C-type lectin domain family 7, member a	BGR/Clecsf12
78	Mm.272746	NM_181990	Cmtm1	CKLF-like MARVEL transmembrane domain containing 1	CHLFH1a/CKLFH
79	Mm.1376	NM_133828	Creb1	CAMP responsive element binding protein 1	2310001E10Rik
80	Mm.795	NM_007778	Csf1	Colony stimulating factor 1 (macrophage)	C87615/CSF-1
81	Mm.22574	NM_007779	Csf1r	Colony stimulating factor 1 receptor	AI323359/CD115
82	Mm.4922	NM_009969	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)	Csfgm/Gm-CSf
83	Mm.1238	NM_009971	Csf3	Colony stimulating factor 3 (granulocyte)	CsfG/CSF
84	Mm.4263	NM_009976	Cst3	Cystatin C	Cysc
85	Mm.12965	NM_009977	Cst7	Cystatin F (leukocystatin)	CMAP
86	Mm.249829	NM_007795	Ctf1	Cardiotrophin 1	CT-1
87	Mm.298017	NM_198858	Ctf2	Cardiotrophin 2	Gm494/NP
88	Mm.103711	NM_009142	Cx3cl1	Chemokine (C-X3-C motif) ligand 1	AB030188/ABCD-3
89	Mm.21013	NM_008176	Cxcl1	Chemokine (C-X-C motif) ligand 1	Fsp/Gro1
90	Mm.877	NM_021274	Cxcl10	Chemokine (C-X-C motif) ligand 10	C7/CRG-2
91	Mm.131723	NM_019494	Cxcl11	Chemokine (C-X-C motif) ligand 11	CXC11/H174
92	Mm.303231	NM_021704	Cxcl12	Chemokine (C-X-C motif) ligand 12	AI174028/PBSF
93	Mm.10116	NM_018866	Cxcl13	Chemokine (C-X-C motif) ligand 13	ANGIE2/Angie
94	Mm.30211	NM_019568	Cxcl14	Chemokine (C-X-C motif) ligand 14	1110031L23Rik
95	Mm.64326	NM_011339	Cxcl15	Chemokine (C-X-C motif) ligand 15	Scyb15/lungkine
96	Mm.359802	NM_023158	Cxcl16	Chemokine (C-X-C motif) ligand 16	0910001K24Rik/AV290116
97	Mm.4979	NM_009140	Cxcl2	Chemokine (C-X-C motif) ligand 2	CINC-2a/GROb
98	Mm.332490	NM_019932	Cxcl4	Chemokine (C-X-C motif) ligand 4	Pf4/Scyb4
99	Mm.4660	NM_009141	Cxcl5	Chemokine (C-X-C motif) ligand 5	AMCF-II/ENA-78
100	Mm.293614	NM_023785	Cxcl7	Chemokine (C-X-C motif) ligand 7	2400003M24Rik/AI854500
101	Mm.766	NM_008599	Cxcl9	Chemokine (C-X-C motif) ligand 9	BB139920/CMK
102	Mm.1401	NM_009911	Cxcr4	Chemokine (C-X-C motif) receptor 4	CD184/Cmkar4
103	Mm.255246	NM_175475	Cyp26b1	Cytochrome P450, family 26, subfamily b, polypeptide 1	CP26/P450RAI-2
104	Mm.140138	NM_177664	D3Bwg0562e	DNA segment, Chr 3, Brigham & Women's Genetics 0562 expressed	A330086D10/PRG-1
105	Mm.250197	NM_001033379	Dcp1b	DCP1 decapping enzyme homolog b (S. cerevisiae)	B930050E02Rik
106	Mm.167537	NM_027151	Dctn2	Dynactin 2	2310042E05Rik
107	Mm.256798	NM_015766	Ebi3	Epstein-Barr virus induced gene 3	IL-27
108	Mm.287977	NM_138302	Ecgf1	Endothelial cell growth factor 1 (platelet-derived)	2900072D10Rik
109	Mm.328086	NM_010099	Eda	Ectodysplasin-A	EDA1/Ed1
110	Mm.290822	NM_010152	ErbB2	V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	ErbB-2/HER-2
111	Mm.235105	NM_028784	F13a1	Coagulation factor XIII, A1 subunit	1200014I03Rik/AI462306
112	Mm.1626	NM_007987	Fas	Fas (TNF receptor superfamily member)	AI196731/APO-1
113	Mm.3355	NM_010177	FasL	Fas ligand (TNF superfamily, member 6)	APT1LG1/CD178
114	Mm.5266	NM_010184	FcER1a	Fc receptor, IgE, high affinity I, alpha polypeptide	FcER1/Fce1a
115	Mm.22673	NM_010185	FcER1g	Fc receptor, IgE, high affinity I, gamma polypeptide	AI573376/CD23
116	Mm.1233	NM_013517	FcER2a	Fc receptor, IgE, low affinity II, alpha polypeptide	CD23/Fce2
117	Mm.150	NM_010186	Fcgr1	Fc receptor, IgG, high affinity I	AI323638/AV092959
118	Mm.330161	NM_010187	Fcgr2b	Fc receptor, IgG, low affinity IIb	AI528646/CD32
119	Mm.22119	NM_010188	Fcgr3	Fc receptor, IgG, low affinity III	CD16
120	Mm.251254	NM_144559	Fcgr3a	Fc fragment of IgG, low affinity IIIa, receptor	4833442P21Rik/CD16-2
121	Mm.1658	NM_013520	Fit3l	FMS-like tyrosine kinase 3 ligand	Ly72L
122	Mm.3291	NM_008029	Fit4	FMS-like tyrosine kinase 4	AI323512/Chy
123	Mm.31708	NM_019569	Fscn3	Fascin homolog 3, actin-bundling protein, testicular (Strongylocentrotus purpuratus)	FSCN3
124	Mm.4950	NM_015783	G1p2	Interferon, alpha-inducible protein	15kDa/IG15
125	Mm.24038	NM_010260	Gbp2	Guanylate nucleotide binding protein 2	GBP2
126	Mm.1909	NM_018734	Gbp4	Guanylate nucleotide binding protein 4	AW228655/Gbp3
127	Mm.258280	NM_008107	Gdf1	Growth differentiation factor 1	AI385651/Gdf-1
128	Mm.343728	NM_019506	Gdf2	Growth differentiation factor 2	Bmp9
129	Mm.299742	NM_008108	Gdf3	Growth differentiation factor 3	C78318/Gdf-3
130	Mm.4744	NM_008109	Gdf5	Growth differentiation factor 5	CDMP-1/bp
131	Mm.302555	NM_013526	Gdf6	Growth differentiation factor 6	BMP13/GDF16
132	Mm.271308	NM_013527	Gdf7	Growth differentiation factor 7	BMP12
133	Mm.332810	NM_008162	Gpx4	Glutathione peroxidase 4	1700027O09Rik/PHGPx
134	Mm.166318	NM_011824	Grem1	Gremlin 1	Cktsf1b1/Drm
135	Mm.25760	NM_011825	Grem2	Gremlin 2 homolog, cysteine knot superfamily (Xenopus laevis)	Gremlin2/Prdc
136	Mm.1568	NM_008175	Grn	Granulin	epithelin
137	Mm.16373	NM_010386	H2-Dma	Histocompatibility 2, class II, locus Dma	H-2Ma/H2-Ma
138	Mm.90364	NM_010493	Icam1	Intercellular adhesion molecule	CD54/Icam-1
139	Mm.394	NM_010494	Icam2	Intercellular adhesion molecule 2	CD102/Icam-2
140	Mm.42044	NM_017480	Icos	Inducible T-cell co-stimulator	AILIM/H4
141	Mm.17819	NM_015790	Icosl	Icos ligand	AU044799/B7-H2
142	Mm.212870	NM_008329	Ifi204	Interferon activated gene 204	ifi16
143	Mm.271275	NM_029803	Ifi27	Interferon, alpha-inducible protein 27	2310061N23Rik/Isq12
144	Mm.30241	NM_023065	Ifi30	Interferon gamma inducible protein 30	GILT1/IP30

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Position	UniGene	GenBank	Symbol	Description	Gene Name
145	Mm.45558	NM_027320	IFI35	Interferon-induced protein 35	2010008K16Rik/AW986054
146	Mm.30756	NM_133871	IFI44	Interferon-induced protein 44	A430056A10Rik/AW261460
147	Mm.6718	NM_008331	IFI1	Interferon-induced protein with tetratricopeptide repeats 1	IFI56
148	Mm.2036	NM_008332	IFI2	Interferon-induced protein with tetratricopeptide repeats 2	AV302338/IFI54
149	Mm.271850	NM_010501	IFI3	Interferon-induced protein with tetratricopeptide repeats 3	IFI49
150	Mm.141021	NM_025378	IFITM3	Interferon induced transmembrane protein 3	1110004C05Rik/Cd225
151	Mm.57127	NM_010502	IFNA1	Interferon alpha family, gene 1	IFA1
152	Mm.377087	NM_008333	IFNA11	Interferon alpha family, gene 11	IFN-[a]11
153	Mm.246618	NM_177361	IFNA12	Interferon alpha family, gene 12	MGC129420
154	Mm.246592	NM_177347	IFNA13	Interferon alpha family, gene 13	IFNA13
155	Mm.1245	NM_010510	IFNB1	Interferon beta 1, fibroblast	IFNB/IFB
156	Mm.240327	NM_008337	IFNG	Interferon gamma	IFN-g/IFN-gamma
157	Mm.549	NM_010511	IFNGR1	Interferon gamma receptor 1	CD119/IFN-gamma R
158	Mm.386929	NM_199157	IFNK	Interferon kappa precursor	IFNK
159	Mm.160384	NM_030691	IGSF6	Immunoglobulin superfamily, member 6	IGSF6
160	Mm.30234	NM_011879	IK	IK cytokine	MuRED
161	Mm.874	NM_010548	IL10	Interleukin 10	CSIF/IL-10
162	Mm.35814	NM_008350	IL11	Interleukin 11	IL-11
163	Mm.103783	NM_008351	IL12A	Interleukin 12A	IL-12p35/IL-12a
164	Mm.239707	NM_008352	IL12B	Interleukin 12B	IL-12b/IL-12p40
165	Mm.1284	NM_008355	IL13	Interleukin 13	IL-13
166	Mm.4392	NM_008357	IL15	Interleukin 15	A1503618
167	Mm.10137	NM_010551	IL16	Interleukin 16	mK1AA4048
168	Mm.5419	NM_010552	IL17	Interleukin 17	C1la-8/C1a8
169	Mm.59313	NM_019508	IL17B	Interleukin 17B	1110006O16Rik
170	Mm.222808	NM_145834	IL17C	Interleukin 17C	IL-17C
171	Mm.21250	NM_145837	IL17D	Interleukin 17D	A1462269/IL-17D
172	Mm.222807	NM_145856	IL17F	Interleukin 17F	IL-17F
173	Mm.1410	NM_008360	IL18	Interleukin 18	Ig/IL-18
174	Mm.131480	NM_001009940	IL19	Interleukin 19	IL19
175	Mm.15534	NM_010554	IL1A	Interleukin 1 alpha	IL-1a
176	Mm.222830	NM_008361	IL1B	Interleukin 1 beta	IL-1beta/IL-1b
177	Mm.14190	NM_008366	IL2	Interleukin 2	IL-2
178	Mm.125482	NM_031252	IL23A	Interleukin 23, alpha subunit p19	p19
179	Mm.196691	NM_053095	IL24	Interleukin 24	FISP/Mda-7
180	Mm.222632	NM_145636	IL27	Interleukin 27	IL-27/IL30
181	Mm.983	NM_010556	IL3	Interleukin 3	Csfmu/IL-3
182	Mm.276360	NM_021283	IL4	Interleukin 4	IgG1/IL-4
183	Mm.4461	NM_010558	IL5	Interleukin 5	IL-5
184	Mm.1019	NM_031168	IL6	Interleukin 6	IL-6
185	Mm.337035	NM_178241	IL8RA	Interleukin 8 receptor, alpha	CXCR1
186	Mm.1100	NM_010564	INHBA	Inhibin alpha	AW555078
187	Mm.8042	NM_008380	INHBA	Inhibin beta-A	INHBA
188	Mm.3092	NM_008381	INHBB	Inhibin beta-B	INHBB
189	Mm.322843	NM_020583	ISG20	Interferon-stimulated protein	1600023I01Rik
190	Mm.262106	NM_008401	ITGAM	Integrin alpha M	CD11b/CD18
191	Mm.22378	NM_021334	ITGAX	Integrin alpha X	A1449405/Cd11c
192	Mm.1137	NM_008404	ITGB2	Integrin beta 2	2E6/A1528527
193	Mm.347927	NM_010653	KIR2C	Killer cell lectin-like receptor subfamily C, member 2	NRG2C
194	Mm.258059	NM_177356	LAMP3	Lysosomal-associated membrane protein 3	1200002D17Rik/Cd208
195	Mm.378911	NM_010094	LEFTY1	Left right determination factor 1	A1450052/Lef1b
196	Mm.87078	NM_177099	LEFTY2	Left-right determination factor 2	6030463A22Rik/AV214969
197	Mm.4964	NM_008501	LIF	Leukemia inhibitory factor	LIF
198	Mm.157545	NM_021460	LIP1	Lysosomal acid lipase 1	AA960673/Lal
199	Mm.271854	NM_008512	LRP1	Low density lipoprotein receptor-related protein 1	A2mr/AI316852
200	Mm.87787	NM_010735	LTA	Lymphotoxin A	LT/LT-[a]
201	Mm.2074	NM_013825	LY75	Lymphocyte antigen 75	CD205/DEC-205
202	Mm.317331	NM_010747	LYN	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	AA407514/Hck-2
203	Mm.311948	XM_128800	MAP4K3	Mitogen-activated protein kinase kinase kinase 3	4833416M01Rik
204	Mm.30059	NM_008538	MARCKS	Myristoylated alanine rich protein kinase C substrate	Macs/PKCSL
205	Mm.2769	NM_010807	MARCKS1	MARCKS-like 1	AL022768/AW215397
206	Mm.906	NM_010784	MIDK	Midkine	MK/Mek
207	Mm.2326	NM_010798	MIF	Macrophage migration inhibitory factor	GIF/Glif
208	Mm.147226	NM_008630	MT2	Metallothionein 2	AA409533/MT-II
209	Mm.35306	NM_145960	MTRF1	Mitochondrial translational release factor 1	A830062K05Rik
210	Mm.33996	NM_010846	MX1	Myxovirus (influenza virus) resistance 1	A1893580/Mx
211	Mm.14157	NM_013606	MX2	Myxovirus (influenza virus) resistance 2	A1528743/Mx-2
212	Mm.256765	NM_008689	NFKB1	Nuclear factor of kappa light chain gene enhancer in B-cells 1, p105	NF-KB1/NF-kappaB
213	Mm.102365	NM_019408	NFKB2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	NF-kappaB2/Iy1
214	Mm.57195	NM_013611	NODAL	Nodal	Tg.413d
215	Mm.324393	XM_356093	NR3C2	Nuclear receptor subfamily 3, group C, member 2	MR/Mir
216	Mm.131422	NM_001013365	OSM	Oncostatin M	OSM
217	Mm.2675	NM_008808	PDGFA	Platelet derived growth factor, alpha	PDGFA
218	Mm.263177	NM_007952	PDIA3	Protein disulfide isomerase associated 3	58kDa/ERp57
219	Mm.2647	NM_011072	PFN1	Profilin 1	PFN
220	Mm.347478	NM_145737	PIM2	Proviral integration site 2	DXCch3/Pim-2

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Position	UniGene	GenBank	Symbol	Description	Gene Name
221	Mm.1359	NM_011113	Plaur	Plasminogen activator, urokinase receptor	Cd87/u-PAR
222	Mm.27769	NM_001033225	Pnrc1	Proline-rich nuclear receptor coactivator 1	5730463C12Rik/B4-2
223	Mm.3863	NM_008898	Por	P450 (cytochrome) oxidoreductase	CPR/CYPOR
224	Mm.338790	NM_011157	Prg1	Proteoglycan 1, secretory granule	Prg/Sgc
225	Mm.277250	NM_011871	Prkra	Protein kinase, interferon inducible double stranded RNA dependent activator	AV120107/Pact
226	Mm.1270	NM_011164	Prl	Prolactin	AV290867
227	Mm.273905	NM_139200	Pscdbp	Pleckstrin homology, Sec7 and coiled-coil domains, binding protein	A130053M09Rik/C80816
228	Mm.279690	NM_008973	Ptin	Pleiotrophin	HARP/HB-GAM
229	Mm.21853	NM_008993	Pxmp2	Peroxisomal membrane protein 2	22kDa/PMP22
230	Mm.292510	NM_009007	Rac1	RAS-related C3 botulinum substrate 1	AL023026/D5ErtD559e
231	Mm.249966	NM_009045	Rela	V-rel reticuloendotheliosis viral oncogene homolog A (avian)	p65
232	Mm.1741	NM_009046	Relb	Avian reticuloendotheliosis viral (v-rel) oncogene related B	RELB
233	Mm.103835	NM_030098	Rnase6	Ribonuclease, RNase A family, 6	9530043P15Rik
234	Mm.3925	NM_011311	S100a4	S100 calcium binding protein A4	18A2/42a
235	Mm.235998	NM_009115	S100b	S100 protein, beta polypeptide, neural	A1850290/Bpb
236	Mm.5038	NM_009129	Scg2	Secretogranin II	Chgc/SgII
237	Mm.2258	NM_011681	Scgb1a1	Secretoglobin, family 1A, member 1 (uterglobin)	CC10/CC16
238	Mm.235137	NM_007926	Scye1	Small inducible cytokine subfamily E, member 1	EMAPII/Emap2
239	Mm.116986	NM_026907	Sectm1	Secreted and transmembrane 1	1810003C24Rik/K12
240	Mm.27630	NM_020519	Slurp1	Secreted Ly6/Plaur domain containing 1	1110021N19Rik/AI415082
241	Mm.290876	NM_013671	Sod2	Superoxide dismutase 2, mitochondrial	MnSOD/Sod-2
242	Mm.288474	NM_009263	Spp1	Secreted phosphoprotein 1	AA960535/AI790405
243	Mm.234472	NM_021420	Stk4	Serine/threonine kinase 4	AI447339/AU020804
244	Mm.207996	NM_013683	Tap1	Transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	ABC17/APT1
245	Mm.14814	NM_011530	Tap2	Transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	ABC18/AI462429
246	Mm.154457	NM_009318	Tapbp	TAP binding protein	D17Wsu91e/TPN
247	Mm.18213	NM_009367	Tgfb2	Transforming growth factor, beta 2	BB105277/Tgf-beta2
248	Mm.3943	NM_009379	Thpo	Thrombopoietin	Mpl/gTPO
249	Mm.273024	NM_030682	Tlr1	Toll-like receptor 1	TLR1
250	Mm.87596	NM_011905	Tlr2	Toll-like receptor 2	Ly105
251	Mm.33874	NM_126166	Tlr3	Toll-like receptor 3	AI957183
252	Mm.38049	NM_021297	Tlr4	Toll-like receptor 4	Lps/Ly87
253	Mm.180003	NM_024277	Rps27a	Ribosomal protein S27a	RPS27A
254	Mm.116894	XM_916118	Tlr5	Toll-like receptor 5	TLR5
255	Mm.42146	NM_011604	Tlr6	Toll-like receptor 6	TLR6
256	Mm.23979	NM_133211	Tlr7	Toll-like receptor 7	TLR7
257	Mm.44889	NM_031178	Tlr9	Toll-like receptor 9	TLR9
258	Mm.159563	NM_029422	Tm7sf4	Transmembrane 7 superfamily member 4	483341407Rik/DC-STAMP
259	Mm.1293	NM_013693	Tnf	Tumor necrosis factor	DIF/TNF-alpha
260	Mm.15383	NM_008764	Tnfrsf11b	Tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	OCIF/Opg
261	Mm.249221	NM_011613	Tnfsf11	Tumor necrosis factor (ligand) superfamily, member 11	Ly109/ODF
262	Mm.307668	NM_019418	Tnfsf14	Tumor necrosis factor (ligand) superfamily, member 14	HVEM-LHVEM
263	N/A	N/A	Pol1	Escherichia coli K12 MG1655 section 351 of 400 of the complete genome	Pol1
264	N/A	L08752	PUC18	PUC18 Plasmid DNA	PUC18
265	Mm.163	NM_009735	B2m	Beta-2-microglobulin	B2m
266	Blank	Blank	Blank	Blank	
267	Blank	Blank	Blank	Blank	
268	Mm.4994	NM_009452	Tnfsf4	Tumor necrosis factor (ligand) superfamily, member 4	Ath-1/Ath1
269	Mm.41171	NM_009404	Tnfsf9	Tumor necrosis factor (ligand) superfamily, member 9	4-1BB-L/4-1BBL
270	Mm.87773	NM_011631	Tra1	Tumor rejection antigen gp96	Erp99/GRP94
271	Mm.123366	NM_026508	Trap1	TNF receptor-associated protein 1	2410002K23Rik/HSP75
272	N/A	AY057791	12SrRNA	Mus musculus musculus 12S ribosomal RNA	12SrRNA
273	N/A	N/A	AS1R3	Artificial Sequence 1 Related 3 (70% identity)(43/60)	
274	N/A	N/A	AS1R2	Artificial Sequence 1 Related 2 (80% identity)(48/60)	
275	N/A	N/A	AS1R1	Artificial Sequence 1 Related 1 (90% identity)(56/60)	
276	N/A	N/A	AS1	Artificial Sequence 1	
277	Mm.163	NM_009735	B2m	Beta-2-microglobulin	B2m
278	Mm.163	NM_009735	B2m	Beta-2-microglobulin	B2m
279	Mm.2180	NM_008302	Hspcb	Heat shock 90kDa protein 1, beta	Hsp84
280	Mm.279361	NM_009502	Vcl	Vinculin	9430097D22/AA571387
281	Mm.190	NM_008510	Xcl1	Chemokine (C motif) ligand 1	AI661682/ATAC
282	Mm.169059	NM_173034	Zfp398	Zinc finger protein 398	5730513123Rik/G430539K21
283	Blank	Blank	Blank	Blank	
284	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary sequence	
285	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary sequence	
286	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary sequence	
287	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary sequence	
288	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary sequence	

Related Products

Product	Cat No.
Oligo GEArray Reagent Kit Reagents for target synthesis, hybridization, and detection of 12 arrays	GA-034
GEArray Express Thermoshaker Hybridization and Washing of up to 16 arrays (2 plates) Hybridization and Washing of up to 32 arrays (4 plates)	GXE-TS2 GXE-TS4
GEArray Express Multi-Chamber HybPlates Four (4) plates and seals for hybridization and washing up to 32 arrays	GA-035
ArrayGrade™ Total RNA Isolation Kit Reagents for preparation of Total RNA from 12 samples	GA-013
ArrayGrade™ FFPE RNA Isolation Kit Reagents for RNA preparation from 12 FFPE samples	GA-023
TrueLabeling-AMP™ 2.0 Kit cRNA Target Synthesis and Labeling Reagents for 12 arrays	GA-030
TrueLabeling-PicoAMP™ Kit Small RNA sample cRNA target Synthesis & Labeling for 12 arrays	GA-130
ArrayGrade™ cRNA Cleanup Kit Purify cRNA Target for 12 arrays	GA-012
GEAhyb Hybridization Solution Hybridization and Washing of 16 arrays	H-01
Chemiluminescent Detection Kit Detection of biotinylated cRNA target on 12+ arrays	D-01
RNASafer™ RNA Stabilization Reagent RNA Sample Preparation / Storage (100 ml)	GA-008
Mouse XpressRef™ Universal Total RNA RNA Reference Control (100 µg, enough for 12+ arrays)	GA-005