

RT² Profiler PCR Array (384-Well Format)

Mouse Apoptosis 384HT

Cat. no. 330231 PAMM-3012ZE

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format G	Roche® LightCycler® 480 (384-well block)

Description

The Mouse Apoptosis RT² Profiler PCR Array profiles the expression of 370 key genes involved in apoptosis, or programmed cell death. The array includes the TNF ligands and their receptors; members of the bcl-2 family, BIR (baculoviral IAP repeat) domain proteins, CARD domain (caspase recruitment domain) proteins, death domain proteins, TRAF (TNF receptor-associated factor) domain proteins and caspases. These 370 genes are also grouped by their functional contribution to apoptosis, either anti-apoptosis or induction of apoptosis. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to apoptosis with this array.

For further details, consult the *RT² Profiler PCR Array Handbook*.



Shipping and storage

RT² Profiler PCR Arrays in formats E and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

For long term storage, keep plates at –20°C.

Note: Ensure that you have the correct RT² Profiler PCR Array format for your real-time cyclers (see table above).

Note: Open the package and store the products appropriately immediately on receipt.

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.257482	NM_019816	Aatf	Apoptosis antagonizing transcription factor
A02	Mm.1318	NM_009594	Abl1	C-abl oncogene 1, non-receptor tyrosine kinase
A03	Mm.308467	NM_007395	Acvr1b	Activin A receptor, type 1B
A04	Mm.298908	NM_001008533	Adora1	Adenosine A1 receptor
A05	Mm.301626	NM_007428	Agt	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
A06	Mm.240434	NM_012019	Aifm1	Apoptosis-inducing factor, mitochondrion-associated 1
A07	Mm.286309	NM_178058	Aifm2	Apoptosis-inducing factor, mitochondrion-associated 2
A08	Mm.40038	NM_175178	Aifm3	Apoptosis-inducing factor, mitochondrion-associated 3
A09	Mm.6645	NM_009652	Akt1	Thymoma viral proto-oncogene 1
A10	Mm.12286	NM_007440	Alox12	Arachidonate 12-lipoxygenase
A11	Mm.289672	NM_009661	Alox8	Arachidonate 8-lipoxygenase
A12	Mm.248360	NM_010730	Anxa1	Annexin A1
A13	Mm.259702	NM_013471	Anxa4	Annexin A4
A14	Mm.220289	NM_009684	Apaf1	Apoptotic peptidase activating factor 1
A15	Mm.384171	NM_007462	Apc	Adenomatosis polyposis coli
A16	Mm.181824	NM_007466	Api5	Apoptosis inhibitor 5
A17	Mm.305152	NM_009696	ApoE	Apolipoprotein E
A18	Mm.277585	NM_007471	App	Amyloid beta (A4) precursor protein
A19	Mm.389890	NM_030693	Atf5	Activating transcription factor 5
A20	Mm.5088	NM_007499	Atm	Ataxia telangiectasia mutated homolog (human)
A21	Mm.315125	NM_028844	Aven	Apoptosis, caspase activation inhibitor
A22	Mm.314618	NM_178084	B230120H23 Rik	RIKEN cDNA B230120H23 gene
A23	Mm.4387	NM_007522	Bad	BCL2-associated agonist of cell death
A24	Mm.688	NM_009736	Bag1	Bcl2-associated athanogene 1
B01	Mm.84073	NM_013863	Bag3	Bcl2-associated athanogene 3
B02	Mm.118400	NM_026121	Bag4	BCL2-associated athanogene 4
B03	Mm.2443	NM_007523	Bak1	BCL2-antagonist/killer 1
B04	Mm.19904	NM_007527	Bax	Bcl2-associated X protein
B05	Mm.7660	NM_133234	Bbc3	BCL2 binding component 3
B06	Mm.239141	NM_009740	Bcl10	B-cell leukemia/lymphoma 10
B07	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
B08	Mm.425593	NM_009742	Bcl2a1a	B-cell leukemia/lymphoma 2 related protein A1a
B09	Mm.238213	NM_009743	Bcl2l1	Bcl2-like 1
B10	Mm.25988	NM_013479	Bcl2l10	Bcl2-like 10
B11	Mm.141083	NM_009754	Bcl2l11	BCL2-like 11 (apoptosis facilitator)
B12	Mm.27990	NM_153516	Bcl2l13	BCL2-like 13 (apoptosis facilitator)
B13	Mm.397611	NM_007537	Bcl2l2	Bcl2-like 2
B14	Mm.439658	NM_033601	Bcl3	B-cell leukemia/lymphoma 3
B15	Mm.347398	NM_009744	Bcl6	B-cell leukemia/lymphoma 6
B16	Mm.294783	NM_153787	Bclaf1	BCL2-associated transcription factor 1
B17	Mm.1442	NM_007540	Bdnf	Brain derived neurotrophic factor
B18	Mm.178947	NM_019584	Becn1	Beclin 1, autophagy related
B19	Mm.223689	NM_025976	Bfar	Bifunctional apoptosis regulator
B20	Mm.235081	NM_007544	Bid	BH3 interacting domain death agonist
B21	Mm.267006	NM_007546	Bik	Bcl2-interacting killer
B22	Mm.335659	NM_007465	Birc2	Baculoviral IAP repeat-containing 2
B23	Mm.2026	NM_007464	Birc3	Baculoviral IAP repeat-containing 3
B24	Mm.8552	NM_009689	Birc5	Baculoviral IAP repeat-containing 5
C01	Mm.447926	NM_007566	Birc6	Baculoviral IAP repeat-containing 6

Position	UniGene	GenBank	Symbol	Description
C02	Mm.187879	NM_001163247	Birc7	Baculoviral IAP repeat-containing 7 (livin)
C03	Mm.21795	NM_172149	Bnip1	BCL2/adenovirus E1B interacting protein 1
C04	Mm.440262	NM_016787	Bnip2	BCL2/adenovirus E1B interacting protein 2
C05	Mm.378890	NM_009760	Bnip3	BCL2/adenovirus E1B interacting protein 3
C06	Mm.29820	NM_009761	Bnip3l	BCL2/adenovirus E1B interacting protein 3-like
C07	Mm.3295	NM_016778	Bok	BCL2-related ovarian killer protein
C08	Mm.245513	NM_139294	Braf	Braf transforming gene
C09	Mm.244975	NM_009764	Brcal	Breast cancer 1
C10	Mm.482126	NM_181282	Bre	Brain and reproductive organ-expressed protein
C11	Mm.4475	NM_013482	Blk	Bruton agammaglobulinemia tyrosine kinase
C12	Mm.17629	NM_130859	Card10	Caspase recruitment domain family, member 10
C13	Mm.46187	NM_175362	Card11	Caspase recruitment domain family, member 11
C14	Mm.130832	NM_130886	Card14	Caspase recruitment domain family, member 14
C15	Mm.31252	NM_001163138	Card6	Caspase recruitment domain family, member 6
C16	Mm.330064	NM_001037747	Card9	Caspase recruitment domain family, member 9
C17	Mm.1051	NM_009807	Casp1	Caspase 1
C18	Mm.20940	NM_009809	Casp14	Caspase 14
C19	Mm.3921	NM_007610	Casp2	Caspase 2
C20	Mm.34405	NM_009810	Casp3	Caspase 3
C21	Mm.1569	NM_007609	Casp4	Caspase 4, apoptosis-related cysteine peptidase
C22	Mm.281379	NM_009811	Casp6	Caspase 6
C23	Mm.35687	NM_007611	Casp7	Caspase 7
C24	Mm.336851	NM_009812	Casp8	Caspase 8
D01	Mm.22279	NM_011997	Casp8ap2	Caspase 8 associated protein 2
D02	Mm.88829	NM_015733	Casp9	Caspase 9
D03	Mm.268070	NM_007625	Cbx4	Chromobox homolog 4 (Drosophila Pc class)
D04	Mm.867	NM_011331	Ccl12	Chemokine (C-C motif) ligand 12
D05	Mm.22842	NM_013486	Cd2	CD2 antigen
D06	Mm.367714	NM_001033126	Cd27	CD27 antigen
D07	Mm.255003	NM_007642	Cd28	CD28 antigen
D08	Mm.249873	NM_007646	Cd38	CD38 antigen
D09	Mm.271833	NM_011611	Cd40	CD40 antigen
D10	Mm.4861	NM_011616	Cd40lg	CD40 ligand
D11	Mm.779	NM_007650	Cd5	CD5 antigen
D12	Mm.42228	NM_011617	Cd70	CD70 antigen
D13	Mm.195663	NM_007669	Cdkn1a	Cyclin-dependent kinase inhibitor 1A (P21)
D14	Mm.2958	NM_009875	Cdkn1b	Cyclin-dependent kinase inhibitor 1B
D15	Mm.4733	NM_009877	Cdkn2a	Cyclin-dependent kinase inhibitor 2A
D16	Mm.439656	NM_009883	Cebpb	CCAAT/enhancer binding protein (C/EBP), beta
D17	Mm.273090	NM_009884	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma
D18	Mm.279437	NM_011801	Cfdp1	Craniofacial development protein 1
D19	Mm.329655	NM_007687	Cfl1	Cofilin 1, non-muscle
D20	Mm.336848	NM_009805	Cflar	CASP8 and FADD-like apoptosis regulator
D21	Mm.279308	NM_016681	Chek2	CHK2 checkpoint homolog (S. pombe)
D22	Mm.449	NM_007702	Cidea	Cell death-inducing DNA fragmentation factor, alpha subunit-like effector A
D23	Mm.466766	NM_009894	Cideb	Cell death-inducing DNA fragmentation factor, alpha subunit-like effector B
D24	Mm.10026	NM_178373	Cidec	Cell death-inducing DFFA-like effector c
E01	Mm.389135	NM_007734	Col4a3	Collagen, type IV, alpha 3
E02	Mm.218009	NM_009950	Cradd	CASP2 and RIPK1 domain containing adaptor with death domain
E03	Mm.1228	NM_013501	Cryaa	Crystallin, alpha A
E04	Mm.178	NM_009964	Cryab	Crystallin, alpha B
E05	Mm.4922	NM_009969	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)
E06	Mm.291928	NM_007614	Ctnnb1	Catenin (cadherin associated protein), beta 1
E07	Mm.87611	NM_012042	Cul1	Cullin 1
E08	Mm.291707	NM_029402	Cul2	Cullin 2
E09	Mm.12665	NM_016716	Cul3	Cullin 3
E10	Mm.212861	NM_146207	Cul4a	Cullin 4A
E11	Mm.218910	NM_027807	Cul5	Cullin 5
E12	Mm.35389	NM_007808	Cycc	Cytochrome c, somatic
E13	Mm.319038	NM_010015	Dad1	Defender against cell death 1
E14	Mm.222867	NM_146057	Dap	Death-associated protein
E15	Mm.29028	NM_022994	Dap3	Death associated protein 3
E16	Mm.24103	NM_029653	Dapk1	Death associated protein kinase 1
E17	Mm.335252	NM_010019	Dapk2	Death-associated protein kinase 2
E18	Mm.10294	NM_007828	Dapk3	Death-associated protein kinase 3
E19	Mm.271809	NM_007829	Daxx	Fas death domain-associated protein
E20	Mm.378235	NM_016974	Dbp	D site albumin promoter binding protein
E21	Mm.167882	NM_007831	Dcc	Deleted in colorectal carcinoma
E22	Mm.1457	NM_016765	Ddah2	Dimethylarginine dimethylaminohydrolase 2
E23	Mm.110220	NM_007837	Ddit3	DNA-damage inducible transcript 3
E24	Mm.272826	NM_017397	Ddx20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20

Position	UniGene	GenBank	Symbol	Description
F01	Mm.270139	NM_011615	Dedd	Death effector domain-containing
F02	Mm.280594	NM_207677	Dedd2	Death effector domain-containing DNA binding protein 2
F03	Mm.133370	NM_053272	Dhcr24	24-dehydrocholesterol reductase
F04	Mm.46716	NM_023232	Diablo	Diablo homolog (Drosophila)
F05	Mm.2651	NM_011262	Dpf2	D4, zinc and double PHD fingers family 2
F06	Mm.45565	NM_001014390	Dyrk2	Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
F07	Mm.18036	NM_007891	E2f1	E2F transcription factor 1
F08	Mm.328086	NM_010099	Eda	Ectodysplasin-A
F09	Mm.174523	NM_010100	Edar	Ectodysplasin-A receptor
F10	Mm.2645	NM_007906	Eef1a2	Eukaryotic translation elongation factor 1 alpha 2
F11	Mm.4337	NM_007915	Ei24	Etoposide induced 2.4 mRNA
F12	Mm.247167	NM_010121	Eif2ak3	Eukaryotic translation initiation factor 2 alpha kinase 3
F13	Mm.349116	NM_007942	Epo	Erythropoietin
F14	Mm.288860	NM_178085	Erc1	ELKS/RAB6-interacting/CAST family member 1
F15	Mm.36524	NM_007949	Ercc2	Excision repair cross-complementing rodent repair deficiency, complementation group 2
F16	Mm.282335	NM_133658	Ercc3	Excision repair cross-complementing rodent repair deficiency, complementation group 3
F17	Mm.340943	NM_023913	Ern1	Endoplasmic reticulum (ER) to nucleus signalling 1
F18	Mm.20452	NM_012016	Ern2	Endoplasmic reticulum (ER) to nucleus signalling 2
F19	Mm.89048	NM_010168	F2	Coagulation factor II
F20	Mm.24816	NM_010169	F2r	Coagulation factor II (thrombin) receptor
F21	Mm.5126	NM_010175	Fadd	Fas (TNFRSF6)-associated via death domain
F22	Mm.74605	NM_011810	Faim	Fas apoptotic inhibitory molecule
F23	Mm.39760	NM_028224	Faim2	Fas apoptotic inhibitory molecule 2
F24	Mm.1626	NM_007987	Fas	Fas (TNF receptor superfamily member 6)
G01	Mm.3355	NM_010177	Fasl	Fas ligand (TNF superfamily, member 6)
G02	Mm.28123	NM_023229	Fastk	Fas-activated serine/threonine kinase
G03	Mm.24069	NM_010193	Fem1b	Feminization 1 homolog b (C. elegans)
G04	Mm.473689	NM_008006	Fgf2	Fibroblast growth factor 2
G05	Mm.29891	NM_019739	Foxo1	Forkhead box O1
G06	Mm.338613	NM_019740	Foxo3	Forkhead box O3
G07	Mm.4679	NM_010275	Gdnf	Glial cell line derived neurotrophic factor
G08	Mm.213862	NM_205844	Gfral	GDNF family receptor alpha like
G09	Mm.261984	NM_025374	Glo1	Glyoxalase 1
G10	Mm.1090	NM_008160	Gpx1	Glutathione peroxidase 1
G11	Mm.358940	NM_001013385	Grm4	Glutamate receptor, metabotropic 4
G12	Mm.394930	NM_019827	Gsk3b	Glycogen synthase kinase 3 beta
G13	Mm.299292	NM_013541	Gstp1	Glutathione S-transferase, pi 1
G14	Mm.290035	NM_026774	Hbxip	Hepatitis B virus x interacting protein
G15	Mm.202504	NM_008228	Hdac1	Histone deacetylase 1
G16	Mm.20521	NM_010411	Hdac3	Histone deacetylase 3
G17	Mm.267078	NM_010427	Hgf	Hepatocyte growth factor
G18	Mm.3879	NM_010431	Hif1a	Hypoxia inducible factor 1, alpha subunit
G19	Mm.280805	NM_146001	Hip1	Huntingtin interacting protein 1
G20	Mm.23790	NM_010433	Hipk2	Homeodomain interacting protein kinase 2
G21	Mm.257925	NM_010434	Hipk3	Homeodomain interacting protein kinase 3
G22	Mm.384468	NM_007545	Hrk	Harakiri, BCL2 interacting protein (contains only BH3 domain)
G23	Mm.87773	NM_011631	Hsp90b1	Heat shock protein 90, beta (Grp94), member 1
G24	Mm.6388	NM_010479	Hspa1a	Heat shock protein 1A
H01	Mm.209419	NM_010481	Hspa9	Heat shock protein 9
H02	Mm.13849	NM_013560	Hspb1	Heat shock protein 1
H03	Mm.215667	NM_008303	Hspe1	Heat shock protein 1 (chaperonin 10)
H04	Mm.20801	NM_016865	Htatip2	HIV-1 tat interactive protein 2, homolog (human)
H05	Mm.209071	NM_010414	Htt	Huntingtin
H06	Mm.25613	NM_133662	Ier3	Immediate early response 3
H07	Mm.14091	NM_010503	Ifna2	Interferon alpha 2
H08	Mm.1245	NM_010510	Ifnb1	Interferon beta 1, fibroblast
H09	Mm.240327	NM_008337	Ifng	Interferon gamma
H10	Mm.241276	NM_028680	Ifi57	Intraflagellar transport 57 homolog (Chlamydomonas)
H11	Mm.268521	NM_010512	Igf1	Insulin-like growth factor 1
H12	Mm.275742	NM_010513	Igf1r	Insulin-like growth factor I receptor
H13	Mm.252843	NM_026166	Ikbip	IKKB interacting protein
H14	Mm.12967	NM_010547	Ikbkg	Inhibitor of kappaB kinase gamma
H15	Mm.874	NM_010548	Il10	Interleukin 10
H16	Mm.1410	NM_008360	Il18	Interleukin 18
H17	Mm.131480	NM_001009940	Il19	Interleukin 19
H18	Mm.15534	NM_010554	Il1a	Interleukin 1 alpha
H19	Mm.14190	NM_008366	Il2	Interleukin 2
H20	Mm.380801	NM_139299	Il31ra	Interleukin 31 receptor A
H21	Mm.276360	NM_021283	Il4	Interleukin 4

Position	UniGene	GenBank	Symbol	Description
H22	Mm.1019	NM_031168	Il6	Interleukin 6
H23	Mm.1100	NM_010564	Inha	Inhibin alpha
H24	Mm.8042	NM_008380	Inhba	Inhibin beta-A
I01	Mm.4946	NM_008387	Ins2	Insulin II
I02	Mm.390630	NM_021310	Jmy	Junction-mediating and regulatory protein
I03	Mm.5074	NM_010679	Lalba	Lactalbumin, alpha
I04	Mm.293753	NM_010693	Lck	Lymphocyte protein tyrosine kinase
I05	Mm.43831	NM_008495	Lgals1	Lectin, galactose binding, soluble 1
I06	Mm.334321	NM_022654	Lrdd	Leucine-rich and death domain containing
I07	Mm.87787	NM_010735	Lta	Lymphotoxin A
I08	Mm.1715	NM_008518	Ltb	Lymphotoxin B
I09	Mm.3122	NM_010736	Ltbr	Lymphotoxin B receptor
I10	Mm.36410	NM_145527	Madd	MAP-kinase activating death domain
I11	Mm.39040	NM_010762	Mal	Myelin and lymphocyte protein, T-cell differentiation protein
I12	Mm.132613	NM_172833	Malt1	Mucosa associated lymphoid tissue lymphoma translocation gene 1
I13	Mm.389883	NM_001081292	Map3k10	Mitogen-activated protein kinase kinase kinase 10
I14	Mm.196581	NM_011949	Mapk1	Mitogen-activated protein kinase 1
I15	Mm.21495	NM_016700	Mapk8	Mitogen-activated protein kinase 8
I16	Mm.173337	NM_021921	Mapk8ip2	Mitogen-activated protein kinase 8 interacting protein 2
I17	Mm.68933	NM_016961	Mapk9	Mitogen-activated protein kinase 9
I18	Mm.259308	NM_010774	Mbd4	Methyl-CpG binding domain protein 4
I19	Mm.1639	NM_008562	Mcl1	Myeloid cell leukemia sequence 1
I20	Mm.439814	NM_153049	Mkl1	MKL (megakaryoblastic leukemia)/myocardin-like 1
I21	Mm.4406	NM_013599	Mmp9	Matrix metalloproteinase 9
I22	Mm.4668	NM_010824	Mpo	Myeloperoxidase
I23	Mm.18210	NM_010830	Msh6	MutS homolog 6 (E. coli)
I24	Mm.285322	NM_019880	Mtch1	Mitochondrial carrier homolog 1 (C. elegans)
J01	Mm.209941	NM_001039657	Mt15	Metallothionein-like 5, testis-specific (tesmin)
J02	Mm.4594	NM_008652	Mybl2	Myeloblastosis oncogene-like 2
J03	Mm.2444	NM_010849	Myc	Myelocytomatosis oncogene
J04	Mm.341248	NM_011586	Myo18a	Myosin XVIIIa
J05	Mm.6898	NM_008670	Naip1	NLR family, apoptosis inhibitory protein 1
J06	Mm.21162	NM_023312	Ndufa13	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13
J07	Mm.30113	NM_026688	Ndufs3	NADH dehydrogenase (ubiquinone) Fe-S protein 3
J08	Mm.256765	NM_008689	Nfkb1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1, p105
J09	Mm.102365	NM_019408	Nfkb2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100
J10	Mm.283893	NM_033217	Ngfr	Nerve growth factor receptor (TNFR superfamily, member 16)
J11	Mm.2530	NM_007524	Nkx3-2	NK3 homeobox 2
J12	Mm.311884	NM_001033367	Nlr4	NLR family, CARD domain containing 4
J13	Mm.277152	NM_001033431	Nlrp12	NLR family, pyrin domain containing 12
J14	Mm.240227	NM_001004142	Nlrp1a	NLR family, pyrin domain containing 1A
J15	Mm.246598	NM_177690	Nlrp2	NLR family, pyrin domain containing 2
J16	Mm.54174	NM_145827	Nlrp3	NLR family, pyrin domain containing 3
J17	Mm.430765	NM_019730	Nme3	Non-metastatic cells 3, protein expressed in
J18	Mm.275430	NM_080637	Nme5	Non-metastatic cells 5, protein expressed in (nucleoside-diphosphate kinase)
J19	Mm.28498	NM_172729	Nod1	Nucleotide-binding oligomerization domain containing 1
J20	Mm.222633	NM_145857	Nod2	Nucleotide-binding oligomerization domain containing 2
J21	Mm.475715	NM_030152	Nol3	Nucleolar protein 3 (apoptosis repressor with CARD domain)
J22	Mm.254017	NM_010928	Notch2	Notch gene homolog 2 (Drosophila)
J23	Mm.267570	NM_008742	Nrf3	Neurotrophin 3
J24	Mm.28574	NM_025539	Nudt2	Nudix (nucleoside diphosphate linked moiety X)-type motif 2
K01	Mm.18742	NM_019738	Nupr1	Nuclear protein 1
K02	Mm.274285	NM_133752	Opa1	Optic atrophy 1 homolog (human)
K03	Mm.131572	NM_172858	Pak7	P21 protein (Cdc42/Rac)-activated kinase 7
K04	Mm.218760	NM_011039	Pax7	Paired box gene 7
K05	Mm.286394	NM_021567	Pcbp4	Poly(rC) binding protein 4
K06	Mm.371609	NM_019746	Pdcd5	Programmed cell death 5
K07	Mm.24254	NM_011051	Pdcd6	Programmed cell death 6
K08	Mm.544	NM_011063	Pea15a	Phosphoprotein enriched in astrocytes 15A
K09	Mm.260521	NM_008839	Pik3ca	Phosphatidylinositol 3-kinase, catalytic, alpha polypeptide
K10	Mm.12945	NM_008841	Pik3r2	Phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 2 (p85 beta)
K11	Mm.347478	NM_138606	Pim2	Proviral integration site 2
K12	Mm.287857	NM_009538	Plagl1	Pleiomorphic adenoma gene-like 1
K13	Mm.103199	NM_018807	Plagl2	Pleiomorphic adenoma gene-like 2
K14	Mm.333798	NM_024413	Plekhl1	Pleckstrin homology domain containing, family F (with FYVE domain) member 1
K15	Mm.971	NM_008877	Plg	Plasminogen
K16	Mm.271878	NM_021451	Pmaip1	Phorbol-12-myristate-13-acetate-induced protein 1
K17	Mm.392123	NM_008884	Pml	Promyelocytic leukemia
K18	Mm.192094	NM_175170	Pogk	Pogo transposable element with KRAB domain
K19	Mm.123211	NM_011130	Polb	Polymerase (DNA directed), beta
K20	Mm.246550	NM_011143	Pou4f1	POU domain, class 4, transcription factor 1

Position	UniGene	GenBank	Symbol	Description
K21	Mm.313076	NM_011625	Ppp1r13b	Protein phosphatase 1, regulatory (inhibitor) subunit 13B
K22	Mm.260288	NM_019411	Ppp2ca	Protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform
K23	Mm.294138	NM_016891	Ppp2r1a	Protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform
K24	Mm.7726	NM_001034085	Ppp2r1b	Protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform
L01	Mm.347009	NM_011563	Prdx2	Peroxiredoxin 2
L02	Mm.207004	NM_001013367	Prkaa1	Protein kinase, AMP-activated, alpha 1 catalytic subunit
L03	Mm.222178	NM_011101	Prkca	Protein kinase C, alpha
L04	Mm.24614	NM_011104	Prkce	Protein kinase C, epsilon
L05	Mm.28561	NM_008860	Prkcz	Protein kinase C, zeta
L06	Mm.277250	NM_011871	Prkra	Protein kinase, interferon inducible double stranded RNA dependent activator
L07	Mm.10516	NM_011169	Prlr	Prolactin receptor
L08	Mm.28456	NM_011172	Prodh	Proline dehydrogenase
L09	Mm.87365	NM_015768	Prok2	Prokineticin 2
L10	Mm.1386	NM_008936	Prop1	Paired like homeodomain factor 1
L11	Mm.329763	NM_181348	Prune2	Prune homolog 2 (Drosophila)
L12	Mm.998	NM_008943	Psen1	Presenilin 1
L13	Mm.245395	NM_008960	Pten	Phosphatase and tensin homolog
L14	Mm.284168	NM_020623	Pth	Parathyroid hormone
L15	Mm.24163	NM_023258	Pycard	PYD and CARD domain containing
L16	Mm.184163	NM_029780	Raf1	V-raf-leukemia viral oncogene 1
L17	Mm.1273	NM_011244	Rarg	Retinoic acid receptor, gamma
L18	Mm.259653	NM_145452	Rasa1	RAS p21 protein activator 1
L19	Mm.249966	NM_009045	Rela	V-rel reticuloendotheliosis viral oncogene homolog A (avian)
L20	Mm.328135	NM_011931	Rfwd2	Ring finger and WD repeat domain 2
L21	Mm.374799	NM_009068	Ripk1	Receptor (TNFRSF)-interacting serine-threonine kinase 1
L22	Mm.112765	NM_138952	Ripk2	Receptor (TNFRSF)-interacting serine-threonine kinase 2
L23	Mm.46612	NM_019955	Ripk3	Receptor-interacting serine-threonine kinase 3
L24	Mm.28235	NM_011279	Rnf7	Ring finger protein 7
M01	Mm.399829	NM_016959	Rps3a	Ribosomal protein S3a
M02	Mm.192580	NM_194053	Rtn4	Reticulon 4
M03	Mm.378894	NM_019732	Runx3	Runt related transcription factor 3
M04	Mm.235998	NM_009115	S100b	S100 protein, beta polypeptide, neural
M05	Mm.267810	NM_020483	Sap30bp	SAP30 binding protein
M06	Mm.34562	NM_016882	Sart1	Squamous cell carcinoma antigen recognized by T-cells 1
M07	Mm.33903	NM_013660	Sema4d	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D
M08	Mm.218473	NM_012032	Serinc3	Serine incorporator 3
M09	Mm.271870	NM_011111	Serpib2	Serine (or cysteine) peptidase inhibitor, clade B, member 2
M10	Mm.272569	NM_009256	Serpib9	Serine (or cysteine) peptidase inhibitor, clade B, member 9
M11	Mm.44482	NM_018754	Sfn	Stratifin
M12	Mm.281691	NM_013834	Sfrp1	Secreted frizzled-related protein 1
M13	Mm.271775	NM_019464	Sh3glb1	SH3-domain GRB2-like B1 (endophilin)
M14	Mm.3072	NM_011379	Sipa1	Signal-induced proliferation associated gene 1
M15	Mm.289812	NM_013929	Siva1	SIVA1, apoptosis-inducing factor
M16	Mm.313687	NM_172429	Smndc1	Survival motor neuron domain containing 1
M17	Mm.17484	NM_009221	Snca	Synuclein, alpha
M18	Mm.474283	NM_007706	Socs2	Suppressor of cytokine signaling 2
M19	Mm.3468	NM_007707	Socs3	Suppressor of cytokine signaling 3
M20	Mm.276325	NM_011434	Sod1	Superoxide dismutase 1, soluble
M21	Mm.290876	NM_013671	Sod2	Superoxide dismutase 2, mitochondrial
M22	Mm.46401	NM_178880	Son	Son DNA binding protein
M23	Mm.20944	NM_025367	Sphk1	Sphingosine kinase 1
M24	Mm.283714	NM_009259	Spn	Sialophorin
N01	Mm.288474	NM_009263	Spp1	Secreted phosphoprotein 1
N02	Mm.2453	NM_009215	Sst	Somatostatin
N03	Mm.211411	NM_009218	Sstr3	Somatostatin receptor 3
N04	Mm.32801	NM_024239	Stambp	Stam binding protein
N05	Mm.277406	NM_009283	Stat1	Signal transducer and activator of transcription 1
N06	Mm.277403	NM_011488	Stat5a	Signal transducer and activator of transcription 5A
N07	Mm.34064	NM_011489	Stat5b	Signal transducer and activator of transcription 5B
N08	Mm.25559	NM_133810	Stk17b	Serine/threonine kinase 17b (apoptosis-inducing)
N09	Mm.389757	NM_025816	Tax1bp1	Tax1 (human T-cell leukemia virus type I) binding protein 1
N10	Mm.34580	NM_019786	Tbk1	TANK-binding kinase 1
N11	Mm.219139	NM_011535	Tbx3	T-box 3
N12	Mm.103636	NM_011537	Tbx5	T-box 5
N13	Mm.5090	NM_011562	Tdgf1	Teratocarcinoma-derived growth factor 1
N14	Mm.248380	NM_011577	Tgfb1	Transforming growth factor, beta 1
N15	Mm.423551	NM_011585	Tia1	Cytotoxic granule-associated RNA binding protein 1
N16	Mm.242072	NM_009383	Tia1	Tia1 cytotoxic granule-associated RNA binding protein-like 1
N17	Mm.4871	NM_011595	Timp3	Tissue inhibitor of metalloproteinase 3
N18	Mm.87596	NM_011905	Tlr2	Toll-like receptor 2

Position	UniGene	GenBank	Symbol	Description
N19	Mm.485087	NM_028339	Tmx1	Thioredoxin-related transmembrane protein 1
N20	Mm.1293	NM_013693	Tnf	Tumor necrosis factor
N21	Mm.116683	NM_009397	Tnfaip3	Tumor necrosis factor, alpha-induced protein 3
N22	Mm.27740	NM_134131	Tnfaip8	Tumor necrosis factor, alpha-induced protein 8
N23	Mm.193430	NM_020275	Tnfrsf10b	Tumor necrosis factor receptor superfamily, member 10b
N24	Mm.482508	NM_009400	Tnfrsf18	Tumor necrosis factor receptor superfamily, member 18
O01	Mm.281356	NM_013869	Tnfrsf19	Tumor necrosis factor receptor superfamily, member 19
O02	Mm.1258	NM_011609	Tnfrsf1a	Tumor necrosis factor receptor superfamily, member 1a
O03	Mm.235328	NM_011610	Tnfrsf1b	Tumor necrosis factor receptor superfamily, member 1b
O04	Mm.200792	NM_178589	Tnfrsf21	Tumor necrosis factor receptor superfamily, member 21
O05	Mm.101198	NM_033042	Tnfrsf25	Tumor necrosis factor receptor superfamily, member 25
O06	Mm.12810	NM_009401	Tnfrsf8	Tumor necrosis factor receptor superfamily, member 8
O07	Mm.244187	NM_011612	Tnfrsf9	Tumor necrosis factor receptor superfamily, member 9
O08	Mm.1062	NM_009425	Tnfsf10	Tumor necrosis factor (ligand) superfamily, member 10
O09	Mm.483369	NM_019418	Tnfsf14	Tumor necrosis factor (ligand) superfamily, member 14
O10	Mm.208152	NM_177371	Tnfsf15	Tumor necrosis factor (ligand) superfamily, member 15
O11	Mm.276823	NM_183391	Tnfsf18	Tumor necrosis factor (ligand) superfamily, member 18
O12	Mm.4664	NM_009403	Tnfsf8	Tumor necrosis factor (ligand) superfamily, member 8
O13	Mm.439966	NM_009413	Tpd52l1	Tumor protein D52-like 1
O14	Mm.264255	NM_001033161	Tradd	TNFRSF1A-associated via death domain
O15	Mm.3399	NM_009422	Traf2	Tnf receptor-associated factor 2
O16	Mm.27431	NM_011632	Traf3	Tnf receptor-associated factor 3
O17	Mm.380491	NM_011633	Traf5	Tnf receptor-associated factor 5
O18	Mm.292729	NM_009424	Traf6	Tnf receptor-associated factor 6
O19	Mm.275150	NM_153792	Traf7	Tnf receptor-associated factor 7
O20	Mm.297870	NM_011634	Traip	TRAF-interacting protein
O21	Mm.27951	NM_026933	Triap1	TP53 regulated inhibitor of apoptosis 1
O22	Mm.222	NM_011640	Trp53	Transformation related protein 53
O23	Mm.287450	NM_173378	Trp53bp2	Transformation related protein 53 binding protein 2
O24	Mm.20894	NM_011641	Trp63	Transformation related protein 63
P01	Mm.78015	NM_011642	Trp73	Transformation related protein 73
P02	Mm.485388	NM_010286	Tsc22d3	TSC22 domain family, member 3
P03	Mm.128892	NM_001081413	Unc13b	Unc-13 homolog B (C. elegans)
P04	Mm.259121	NM_026031	Utp11l	UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)
P05	Mm.245976	NM_009503	Vcp	Valosin containing protein
P06	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A
P07	Mm.29407	NM_009507	Vhl	Von Hippel-Lindau tumor suppressor
P08	Mm.259879	NM_009688	Xiap	X-linked inhibitor of apoptosis
P09	Mm.3360	NM_011740	Ywhaz	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
P10	Mm.29780	NM_172735	Zc3hc1	Zinc finger, C3HC type 1
P11	Mm.328431	NM_007393	Actb	Actin, beta
P12	Mm.163	NM_009735	B2m	Beta-2 microglobulin
P13	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
P14	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
P15	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
P16	N/A	SA_00106	MGDC	Mouse Genomic DNA Contamination
P17	N/A	SA_00106	MGDC	Mouse Genomic DNA Contamination
P18	N/A	SA_00106	MGDC	Mouse Genomic DNA Contamination
P19	N/A	SA_00104	RTC	Reverse Transcription Control
P20	N/A	SA_00104	RTC	Reverse Transcription Control
P21	N/A	SA_00104	RTC	Reverse Transcription Control
P22	N/A	SA_00103	PPC	Positive PCR Control
P23	N/A	SA_00103	PPC	Positive PCR Control
P24	N/A	SA_00103	PPC	Positive PCR Control

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RT ² SYBR Green Fluor qPCR Mastermix (8)*	For 4 x 384 assays in 384-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler [®] , iQ [™] 5, MyiQ [™] , MyiQ2	330511

* Larger kit sizes available; please inquire.

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