

TaqMan® Human and Mouse Immune Arrays

These arrays are part of a collection of TaqMan® Gene Signature Arrays that enable analysis of hundreds of TaqMan® Gene Expression Assays on a micro fluidic card with minimal effort.

Immune response is carried out by cells and protein molecules to protect the body from bacteria, viruses, and other foreign bodies. Once an antigen enters the body, the primary response includes the recognition of the antigens and the release of a signal cascade to fight the infection. The signal cascade involves cell surface receptors, signaling molecules, cytokines, chemokines, and their receptors, and a number of other proteins involved with removing the invading body.

Immune response research is important in the study of cancer, inflammation, asthma, allergies, and infections. We have created two TaqMan Gene Signature Arrays, each containing 96 gene targets, to study immune response in both humans and mice. When possible, the orthologous genes are included in each array. The genes contained in the array fall in the following target classes.

Target Class	Number of Genes
Transcription Factors	4
Stress Response	4
Signal Transduction	10
Cytokines/Cytokine Receptors	32
Chemokines/ Chemokine Receptors	11
Cell Surface Receptors	17
Oxidoreductase	3
Protease	4
Cell Cycle, Protein Kinase	5
Housekeeping	6

Gene Signature Array Name	# of Targets/Controls	Format	Pack Size	Part Number
Human Immune Array	90/6	Format 96a	4 arrays/pack	4370573
Mouse Immune Array	90/6	Format 96a	4 arrays/pack	4367786

Human Immune Array

A	IL1A	IL1B	IL2	IL3	IL4	IL5	IL6	IL7	IL8	IL9	18S	IL10	IL12A	IL12B	IL13	IL15	IL17	IL18	CCL3	CCL19	CCL2	CCL5	CCR2	CCR4	
B	CCR5	CCR7	CXCR3	CXCL10	CXCL11	CSF1	CSF2	CSF3	STAT3	NFKB2	IKKBK	CD3E	CD4	CD8A	CD19	IL2RA	CD28	CD38	CD40	PTPRC	CD68	CD80	CD86	CTLA4	
C	CD40LG	HLA-DRA	HLA-DRB1	TBX21	TNFRSF18	ICOS	NOS2A	BCL2	BCL2L1	BAX	ICAM1	SELP	SELE	HMOX1	PTGS2	REN	LRP2	MYH6	RPL3L	CYP1A2	CYP7A1	IFNG	PRF1	GZMB	
D	GNLY	FAS	FASLG	TGFB1	SMAD3	SMAD7	SKI	FN1	COL4A5	C3	TNF	LTA	ACE	VEGF	CD34	AGTR1	AGTR2	EDN1	ECE1	GAPDH	ACTB	TFRC	GUSB	PGK1	
E	IL1A	IL1B	IL2	IL3	IL4	IL5	IL6	IL7	IL8	IL9	18S	IL10	IL12A	IL12B	IL13	IL15	IL17	IL18	CCL3	CCL19	CCL2	CCL5	CCR2	CCR4	
F	CCR5	CCR7	CXCR3	CXCL10	CXCL11	CSF1	CSF2	CSF3	STAT3	NFKB2	IKKBK	CD3E	CD4	CD8A	CD19	IL2RA	CD28	CD38	CD40	PTPRC	CD68	CD80	CD86	CTLA4	
G	CD40LG	HLA-DRA	HLA-DRB1	TBX21	TNFRSF18	ICOS	NOS2A	BCL2	BCL2L1	BAX	ICAM1	SELP	SELE	HMOX1	PTGS2	REN	LRP2	MYH6	RPL3L	CYP1A2	CYP7A1	IFNG	PRF1	GZMB	
H	GNLY	FAS	FASLG	TGFB1	SMAD3	SMAD7	SKI	FN1	COL4A5	C3	TNF	LTA	ACE	VEGF	CD34	AGTR1	AGTR2	EDN1	ECE1	GAPDH	ACTB	TFRC	GUSB	PGK1	
I	IL1A	IL1B	IL2	IL3	IL4	IL5	IL6	IL7	IL8	IL9	18S	IL10	IL12A	IL12B	IL13	IL15	IL17	IL18	CCL3	CCL19	CCL2	CCL5	CCR2	CCR4	
J	CCR5	CCR7	CXCR3	CXCL10	CXCL11	CSF1	CSF2	CSF3	STAT3	NFKB2	IKKBK	CD3E	CD4	CD8A	CD19	IL2RA	CD28	CD38	CD40	PTPRC	CD68	CD80	CD86	CTLA4	
K	CD40LG	HLA-DRA	HLA-DRB1	TBX21	TNFRSF18	ICOS	NOS2A	BCL2	BCL2L1	BAX	ICAM1	SELP	SELE	HMOX1	PTGS2	REN	LRP2	MYH6	RPL3L	CYP1A2	CYP7A1	IFNG	PRF1	GZMB	
L	GNLY	FAS	FASLG	TGFB1	SMAD3	SMAD7	SKI	FN1	COL4A5	C3	TNF	LTA	ACE	VEGF	CD34	AGTR1	AGTR2	EDN1	ECE1	GAPDH	ACTB	TFRC	GUSB	PGK1	
M	IL1A	IL1B	IL2	IL3	IL4	IL5	IL6	IL7	IL8	IL9	18S	IL10	IL12A	IL12B	IL13	IL15	IL17	IL18	CCL3	CCL19	CCL2	CCL5	CCR2	CCR4	
N	CCR5	CCR7	CXCR3	CXCL10	CXCL11	CSF1	CSF2	CSF3	STAT3	NFKB2	IKKBK	CD3E	CD4	CD8A	CD19	IL2RA	CD28	CD38	CD40	PTPRC	CD68	CD80	CD86	CTLA4	
O	CD40LG	HLA-DRA	HLA-DRB1	TBX21	TNFRSF18	ICOS	NOS2A	BCL2	BCL2L1	BAX	ICAM1	SELP	SELE	HMOX1	PTGS2	REN	LRP2	MYH6	RPL3L	CYP1A2	CYP7A1	IFNG	PRF1	GZMB	
P	GNLY	FAS	FASLG	TGFB1	SMAD3	SMAD7	SKI	FN1	COL4A5	C3	TNF	LTA	ACE	VEGF	CD34	AGTR1	AGTR2	EDN1	ECE1	GAPDH	ACTB	TFRC	GUSB	PGK1	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Port

Mouse Immune Array

A	Actb	Agtr2	B2m	Bax	Bcl2	Bcl2l1	C3	Ccl19	Ccl2	Ccl3	18S	Ccl5	Ccr2	Ccr4	Ccr7	Cd19	Cd28	Cd34	Cd38	Cd3e	Cd4	Cd68	Cd80	Cd86	
B	Cd8a	Col4a5	Csf1	Csf2	Csf3	Ctla4	Cxcl10	Cxcl11	Cxcr3	Cyp1a2	Cyp7a1	Ece1	Edn1	Fas	Fn1	Gusb	Gzmb	H2-Ea	H2-Eb1	Hmox1	Hprt1	Icos	Ifng	Ikbkb	
C	Il10	Il12a	Il12b	Il13	Il15	Il17	Il18	Il1a	Il1b	Il2	Il2ra	Il3	Il4	Il5	Il6	Il7	Il9	Gapdh	Lrp2	Lta	Nfk1b	Nfk2	Nos2	Pgk1	
D	Prf1	Ptgs2	Ptprc	Sele	Selp	Ski	Smad3	Smad7	Socs1	Socs2	Stat1	Stat3	Stat4	Stat6	Tbx21	Tfrc	Tgfb1	Tnf	Tnfrsf18	Cd40	Cd40lg	Fasl	Vcam1	Vegfa	
E	Actb	Agtr2	B2m	Bax	Bcl2	Bcl2l1	C3	Ccl19	Ccl2	Ccl3	18S	Ccl5	Ccr2	Ccr4	Ccr7	Cd19	Cd28	Cd34	Cd38	Cd3e	Cd4	Cd68	Cd80	Cd86	
F	Cd8a	Col4a5	Csf1	Csf2	Csf3	Ctla4	Cxcl10	Cxcl11	Cxcr3	Cyp1a2	Cyp7a1	Ece1	Edn1	Fas	Fn1	Gusb	Gzmb	H2-Ea	H2-Eb1	Hmox1	Hprt1	Icos	Ifng	Ikbkb	
G	Il10	Il12a	Il12b	Il13	Il15	Il17	Il18	Il1a	Il1b	Il2	Il2ra	Il3	Il4	Il5	Il6	Il7	Il9	Gapdh	Lrp2	Lta	Nfk1b	Nfk2	Nos2	Pgk1	
H	Prf1	Ptgs2	Ptprc	Sele	Selp	Ski	Smad3	Smad7	Socs1	Socs2	Stat1	Stat3	Stat4	Stat6	Tbx21	Tfrc	Tgfb1	Tnf	Tnfrsf18	Cd40	Cd40lg	Fasl	Vcam1	Vegfa	
I	Actb	Agtr2	B2m	Bax	Bcl2	Bcl2l1	C3	Ccl19	Ccl2	Ccl3	18S	Ccl5	Ccr2	Ccr4	Ccr7	Cd19	Cd28	Cd34	Cd38	Cd3e	Cd4	Cd68	Cd80	Cd86	
J	Cd8a	Col4a5	Csf1	Csf2	Csf3	Ctla4	Cxcl10	Cxcl11	Cxcr3	Cyp1a2	Cyp7a1	Ece1	Edn1	Fas	Fn1	Gusb	Gzmb	H2-Ea	H2-Eb1	Hmox1	Hprt1	Icos	Ifng	Ikbkb	
K	Il10	Il12a	Il12b	Il13	Il15	Il17	Il18	Il1a	Il1b	Il2	Il2ra	Il3	Il4	Il5	Il6	Il7	Il9	Gapdh	Lrp2	Lta	Nfk1b	Nfk2	Nos2	Pgk1	
L	Prf1	Ptgs2	Ptprc	Sele	Selp	Ski	Smad3	Smad7	Socs1	Socs2	Stat1	Stat3	Stat4	Stat6	Tbx21	Tfrc	Tgfb1	Tnf	Tnfrsf18	Cd40	Cd40lg	Fasl	Vcam1	Vegfa	
M	Actb	Agtr2	B2m	Bax	Bcl2	Bcl2l1	C3	Ccl19	Ccl2	Ccl3	18S	Ccl5	Ccr2	Ccr4	Ccr7	Cd19	Cd28	Cd34	Cd38	Cd3e	Cd4	Cd68	Cd80	Cd86	
N	Cd8a	Col4a5	Csf1	Csf2	Csf3	Ctla4	Cxcl10	Cxcl11	Cxcr3	Cyp1a2	Cyp7a1	Ece1	Edn1	Fas	Fn1	Gusb	Gzmb	H2-Ea	H2-Eb1	Hmox1	Hprt1	Icos	Ifng	Ikbkb	
O	Il10	Il12a	Il12b	Il13	Il15	Il17	Il18	Il1a	Il1b	Il2	Il2ra	Il3	Il4	Il5	Il6	Il7	Il9	Gapdh	Lrp2	Lta	Nfk1b	Nfk2	Nos2	Pgk1	
P	Prf1	Ptgs2	Ptprc	Sele	Selp	Ski	Smad3	Smad7	Socs1	Socs2	Stat1	Stat3	Stat4	Stat6	Tbx21	Tfrc	Tgfb1	Tnf	Tnfrsf18	Cd40	Cd40lg	Fasl	Vcam1	Vegfa	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Port

More arrays will be available soon! Register to receive new Gene Signature Array product announcements, or suggest an array at taqmanarray.appliedbiosystems.com

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The TaqMan® Array is covered by U.S. Patents Nos. 6,514,750, 6,942,837, 7,211,443, and 7,235,406. Micro Fluidic Card developed in collaboration with 3M Company.

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