

QuantiNova® LNA® PCR Focus Panels (Rotor-Gene® Format)

Mouse TNF Signaling Pathway

Cat. no. 249950 SBMM-063ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored at 2–8°C for short term storage or at –30°C to –15°C for long time storage. Under these conditions, all components are stable for at least 12 months.

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

For optimal performance, QuantiNova LNA PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA PCR Focus Panel

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc® (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance. Refer to the QuantiNova LNA PCR System Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Apaf1	Arhgd1b	Bag4	Bcl2	Bid	Cad	Casp2	Casp3	Casp8	Cd27	Cd40	Cd40lg
B	Cd70	Cflar	Chuk	Cradd	Cycs	Dffa	Dusp1	Eda2r	Fadd	Fas	Fasl	Ikbb
C	Ikkg	Jun	Lmna	Lmnbl	Lmnbl2	Lta	Ltb	Ubr	Map2k4	Map3k1	Map3k14	Map3k7
D	Mapk8	Nfkb1	Nfkb1a	Ngfr	Pak1	Pak2	Parp1	Pglyrp1	Pikdc	Psmg2	Rb1	Relt
E	Sptan1	Tank	Tnf	Tnfai3	Tnfai3b	Tnfai3a	Tnfai3b	Tnfai3a	Tnfai3b	Tnfai3c	Tnfai3d	Tnfai3e
F	Tnfai3f	Tnfai3g	Tnfai3h	Tnfai3i	Tnfai3j	Tnfai3k	Tnfai3l	Tnfai3m	Tnfai3n	Tnfai3o	Tnfai3p	Tnfai3q
G	Tnfai3r	Tnfai3s	Tnfai3t	Tnfai3u	Tnfai3v	Tnfai3w	Tnfai3x	Tnfai3y	Tnfai3z	Tnfai3aa	Tnfai3ab	Tnfai3ac
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0931259	ENSMUST00000160788.1	Apaf1	ENSMUSG0000019979	apoptotic peptidase activating factor 1 Source MGI Symbol Acc MGI 1306796
A02	SBM0987438	ENSMUST00000032344.11	Arhgdib	ENSMUSG00000030220	Rho, GDP dissociation inhibitor (GDI) beta Source MGI Symbol Acc MGI 101940
A03	SBM1036283	ENSMUST00000210103.1	Bag4	ENSMUSG00000037316	BCL2-associated athanogene 4 Source MGI Symbol Acc MGI 1914634
A04	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG00000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A05	SBM0938087	ENSMUST00000160684.7	Bid	ENSMUSG0000004446	BH3 interacting domain death agonist Source MGI Symbol Acc MGI 108093
A06	SBM0775642	ENSMUST00000200953.3	Cad	ENSMUSG0000013629	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase Source MGI Symbol Acc MGI 1916969
A07	SBM1225390	ENSMUST00000031895.12	Casp2	ENSMUSG00000029863	caspase 2 Source MGI Symbol Acc MGI 97295
A08	SBM0732165	ENSMUST00000093517.6	Casp3	ENSMUSG00000031628	caspase 3 Source MGI Symbol Acc MGI 107739
A09	SBM0772558	ENSMUST00000027189.14	Casp8	ENSMUSG00000026029	caspase 8 Source MGI Symbol Acc MGI 1261423
A10	SBM1093198	ENSMUST00000032486.12	Cd27	ENSMUSG00000030336	CD27 antigen Source MGI Symbol Acc MGI 88326
A11	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
A12	SBM0708134	ENSMUST00000033466.1	Cd40lg	ENSMUSG00000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
B01	SBM0822094	ENSMUST00000019633.7	Cd70	ENSMUSG0000019489	CD70 antigen Source MGI Symbol Acc MGI 1195273
B02	SBM0727764	ENSMUST000000124567.1	Cflar	ENSMUSG00000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
B03	SBM1034080	ENSMUST00000026217.10	Chuk	ENSMUSG00000025199	conserved helix-loop-helix ubiquitous kinase Source MGI Symbol Acc MGI 99484
B04	SBM0880165	ENSMUST000000217809.1	Cradd	ENSMUSG00000045867	CASP2 and RIPK1 domain containing adaptor with death domain Source MGI Symbol Acc MGI 1336168
B05	SBM0934482	ENSMUST000000161401.1	Cyts	ENSMUSG00000063694	cytochrome c, somatic Source MGI Symbol Acc MGI 88578
B06	SBM0824483	ENSMUST00000030816.3	Dffa	ENSMUSG00000028974	DNA fragmentation factor, alpha subunit Source MGI Symbol Acc MGI 1196227
B07	SBM1019762	ENSMUST000000126178.1	Dusp1	ENSMUSG00000024190	dual specificity phosphatase 1 Source MGI Symbol Acc MGI 105120
B08	SBM0675225	ENSMUST000000126283.7	Eda2r	ENSMUSG00000034457	ectodysplasin A2 receptor Source MGI Symbol Acc MGI 2442860
B09	SBM0895464	ENSMUST00000033394.7	Fadd	ENSMUSG00000031077	Fas (TNFRSF6)-associated via death domain Source MGI Symbol Acc MGI 109324
B10	SBM0856649	ENSMUST000000112472.3	Fas	ENSMUSG00000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
B11	SBM0967876	ENSMUST00000000834.3	FasL	ENSMUSG00000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
B12	SBM0683235	ENSMUST000000144583.7	Ikbbk	ENSMUSG00000031537	inhibitor of kappaB kinase beta Source MGI Symbol Acc MGI 1338071
C01	SBM0785643	ENSMUST000000114127.7	Ikbbg	ENSMUSG00000004221	inhibitor of kappaB kinase gamma Source MGI Symbol Acc MGI 1338074
C02	SBM1045409	ENSMUST000000107094.1	Jun	ENSMUSG00000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
C03	SBM0903585	ENSMUST000000120377.7	Lmna	ENSMUSG00000028063	lamin A Source MGI Symbol Acc MGI 96794
C04	SBM0785575	ENSMUST000000025486.8	Lmnbl	ENSMUSG00000024590	lamin B1 Source MGI Symbol Acc MGI 96795
C05	SBM0898001	ENSMUST000000057623.13	Lmnbl2	ENSMUSG00000062075	lamin B2 Source MGI Symbol Acc MGI 96796
C06	SBM0790437	ENSMUST000000025266.5	Lta	ENSMUSG00000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797
C07	SBM0777783	ENSMUST000000173510.1	Ltb	ENSMUSG00000024399	lymphotoxin B Source MGI Symbol Acc MGI 104796
C08	SBM0696880	ENSMUST000000032489.7	Ltbr	ENSMUSG00000030339	lymphotoxin B receptor Source MGI Symbol Acc MGI 104875
C09	SBM1084723	ENSMUST000000046963.9	Map2k4	ENSMUSG00000033352	mitogen-activated protein kinase kinase 4 Source MGI Symbol Acc MGI 1346869
C10	SBM0811680	ENSMUST000000145055.1	Map3k1	ENSMUSG00000021754	mitogen-activated protein kinase kinase 1 Source MGI Symbol Acc MGI 1346872
		ENSMUST000000		ENSMUSG00	mitogen-activated protein kinase kinase kinase 14 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0787171	021324.2	Map3k14	000020941	1858204
C12	SBM0833481	ENSMUST00000037607.10	Map3k7	ENSMUSG0000028284	mitogen-activated protein kinase kinase 7 Source MGI Symbol Acc MGI 1346877
D01	SBM0984642	ENSMUST00000132379.1	Mapk8	ENSMUSG00000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D02	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG00000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
D03	SBM0696431	ENSMUST00000021413.8	Nfkbia	ENSMUSG00000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
D04	SBM0740409	ENSMUST00000000122.6	Ngfr	ENSMUSG00000000120	nerve growth factor receptor (TNFR superfamily, member 16) Source MGI Symbol Acc MGI 97323
D05	SBM0746109	ENSMUST00000033040.11	Pak1	ENSMUSG0000030774	p21 (RAC1) activated kinase 1 Source MGI Symbol Acc MGI 1339975
D06	SBM0925072	ENSMUST00000023467.8	Pak2	ENSMUSG00000022781	p21 (RAC1) activated kinase 2 Source MGI Symbol Acc MGI 1339984
D07	SBM0750626	ENSMUST00000191639.1	Parp1	ENSMUSG00000026496	poly (ADP-ribose) polymerase family, member 1 Source MGI Symbol Acc MGI 1340806
D08	SBM0969852	ENSMUST00000032573.7	Pglyrp1	ENSMUSG00000030413	peptidoglycan recognition protein 1 Source MGI Symbol Acc MGI 1345092
D09	SBM0998200	ENSMUST00000023352.8	Prkdc	ENSMUSG00000022672	protein kinase, DNA activated, catalytic polypeptide Source MGI Symbol Acc MGI 104779
D10	SBM0791392	ENSMUST00000025418.3	Psmg2	ENSMUSG00000024537	proteasome (prosome, macropain) assembly chaperone 2 Source MGI Symbol Acc MGI 1922901
D11	SBM0795530	ENSMUST00000168495.1	Rb1	ENSMUSG00000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
D12	SBM1042975	ENSMUST00000136231.1	Relt	ENSMUSG00000008318	RELT tumor necrosis factor receptor Source MGI Symbol Acc MGI 2443373
E01	SBM0816791	ENSMUST00000113719.8	Sptan1	ENSMUSG00000057738	spectrin alpha, non-erythrocytic 1 Source MGI Symbol Acc MGI 98386
E02	SBM1000844	ENSMUST00000112495.7	Tank	ENSMUSG00000064289	TRAF family member-associated Nf-kappa B activator Source MGI Symbol Acc MGI 107676
E03	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
E04	SBM0936524	ENSMUST00000105527.1	Tnfaip3	ENSMUSG0000019850	tumor necrosis factor, alpha-induced protein 3 Source MGI Symbol Acc MGI 1196377
E05	SBM0809431	ENSMUST00000224533.1	Tnfrsf10b	ENSMUSG0000002074	tumor necrosis factor receptor superfamily, member 10b Source MGI Symbol Acc MGI 1341090
E06	SBM0954235	ENSMUST00000027559.7	Tnfrsf11a	ENSMUSG00000026321	tumor necrosis factor receptor superfamily, member 11a, NFkB activator Source MGI Symbol Acc MGI 1314891
E07	SBM0675830	ENSMUST00000079772.3	Tnfrsf11b	ENSMUSG00000063727	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) Source MGI Symbol Acc MGI 109587
E08	SBM1083113	ENSMUST00000167059.8	Tnfrsf12a	ENSMUSG00000023905	tumor necrosis factor receptor superfamily, member 12a Source MGI Symbol Acc MGI 1351484
E09	SBM0700015	ENSMUST00000101103.3	Tnfrsf13b	ENSMUSG0000010142	tumor necrosis factor receptor superfamily, member 13b Source MGI Symbol Acc MGI 1889411
E10	SBM0747267	ENSMUST00000109535.2	Tnfrsf13c	ENSMUSG00000068105	tumor necrosis factor receptor superfamily, member 13c Source MGI Symbol Acc MGI 1919299
E11	SBM0771210	ENSMUST00000152687.7	Tnfrsf14	ENSMUSG00000042333	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) Source MGI Symbol Acc MGI 2675303
E12	SBM0751426	ENSMUST00000023140.5	Tnfrsf17	ENSMUSG00000022496	tumor necrosis factor receptor superfamily, member 17 Source MGI Symbol Acc MGI 1343050
F01	SBM0722301	ENSMUST00000122001.2	Tnfrsf18	ENSMUSG00000041954	tumor necrosis factor receptor superfamily, member 18 Source MGI Symbol Acc MGI 894675
F02	SBM0706107	ENSMUST00000224371.1	Tnfrsf19	ENSMUSG00000060548	tumor necrosis factor receptor superfamily, member 19 Source MGI Symbol Acc MGI 1352474
F03	SBM0837100	ENSMUST00000134803.1	Tnfrsf1a	ENSMUSG00000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
F04	SBM0979488	ENSMUST00000143055.1	Tnfrsf1b	ENSMUSG00000028599	tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883
F05	SBM0893612	ENSMUST00000024708.5	Tnfrsf21	ENSMUSG00000023915	tumor necrosis factor receptor superfamily, member 21 Source MGI Symbol Acc MGI 2151075
F06	SBM1006376	ENSMUST00000025706.9	Tnfrsf25	ENSMUSG00000024793	tumor necrosis factor receptor superfamily, member 25 Source MGI Symbol Acc MGI 1934667
F07	SBM0900193	ENSMUST00000143576.1	Tnfrsf4	ENSMUSG00000029075	tumor necrosis factor receptor superfamily, member 4 Source MGI Symbol Acc MGI 104512
F08	SBM0814576	ENSMUST00000123027.1	Tnfrsf8	ENSMUSG00000028602	tumor necrosis factor receptor superfamily, member 8 Source MGI Symbol Acc MGI 99908
F09	SBM0840758	ENSMUST00000060901.10	Tnfrsf9	ENSMUSG00000028965	tumor necrosis factor receptor superfamily, member 9 Source MGI Symbol Acc MGI 1101059
F10	SBM0969669	ENSMUST00000046383.11	Tnfrsf10	ENSMUSG00000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1225403	ENSMUST00000022592.7	Tnfsf11	ENSMUSG00000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
F12	SBM0826302	ENSMUST00000181810.7	Tnfsf12	ENSMUSG00000097328	tumor necrosis factor (ligand) superfamily, member 12 Source MGI Symbol Acc MGI 1196259
G01	SBM1082975	ENSMUST00000018896.13	Tnfsf13	ENSMUSG00000089669	tumor necrosis factor (ligand) superfamily, member 13 Source MGI Symbol Acc MGI 1916833
G02	SBM0908217	ENSMUST00000208683.1	Tnfsf13b	ENSMUSG00000031497	tumor necrosis factor (ligand) superfamily, member 13b Source MGI Symbol Acc MGI 1344376
G03	SBM0681467	ENSMUST00000005976.7	Tnfsf14	ENSMUSG0000005824	tumor necrosis factor (ligand) superfamily, member 14 Source MGI Symbol Acc MGI 1355317
G04	SBM0925177	ENSMUST00000062246.6	Tnfsf15	ENSMUSG00000050395	tumor necrosis factor (ligand) superfamily, member 15 Source MGI Symbol Acc MGI 2180140
G05	SBM1044795	ENSMUST00000086084.1	Tnfsf18	ENSMUSG00000066755	tumor necrosis factor (ligand) superfamily, member 18 Source MGI Symbol Acc MGI 2673064
G06	SBM1089254	ENSMUST00000028024.4	Tnfsf4	ENSMUSG00000026700	tumor necrosis factor (ligand) superfamily, member 4 Source MGI Symbol Acc MGI 104511
G07	SBM0953038	ENSMUST00000030047.2	Tnfsf8	ENSMUSG00000028362	tumor necrosis factor (ligand) superfamily, member 8 Source MGI Symbol Acc MGI 88328
G08	SBM0986835	ENSMUST00000039490.8	Tnfsf9	ENSMUSG00000035678	tumor necrosis factor (ligand) superfamily, member 9 Source MGI Symbol Acc MGI 1101058
G09	SBM0977630	ENSMUST00000144762.7	Tradd	ENSMUSG00000031887	TNFRSF1A-associated via death domain Source MGI Symbol Acc MGI 109200
G10	SBM0741116	ENSMUST00000028234.11	Traf1	ENSMUSG00000026875	TNF receptor-associated factor 1 Source MGI Symbol Acc MGI 101836
G11	SBM0686660	ENSMUST00000151742.1	Traf2	ENSMUSG00000026942	TNF receptor-associated factor 2 Source MGI Symbol Acc MGI 101835
G12	SBM0833897	ENSMUST00000021706.10	Traf3	ENSMUSG00000021277	TNF receptor-associated factor 3 Source MGI Symbol Acc MGI 108041
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
QuantiNova Reverse Transcription Kit (10)*	For 10 x 20 μ l reactions: 20 μ l 8x gDNA Removal Mix, 10 μ l Reverse Transcription Enzyme, 40 μ l Reverse Transcription Mix (containing RT primers), 20 μ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green RT Mix, 20 μ l Internal Control RNA, 500 μ l Yellow Template Dilution Buffer, 250 μ l ROX Reference Dye, 1.9 μ l RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA PCR Focus Panels are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.

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