

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

Mouse T-Cell & B-Cell Activation

Cat. no. 249950 SBMM-053ZR

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	Ada	Apc	Bad	Bcl2	Blm	Casp3	Cblb	Ccnd3	Cd1d1	Cd2	Cd28	Cd38
B	Cd3d	Cd3e	Cd3g	Cd4	Cd40	Cd40lg	Cd47	Cd48	Cd74	Cd79a	Cd81	Cd8a
C	Cd8b1	Cdkn1a	Cr2	Csf1	Csf2	Ctla4	Cxd12	Cxcr4	Cxcr5	Dpp4	Egr1	Fh3
D	Foxp3	H60b	Hsp90aa1	Icam1	Icosl	Ifng	Il10	Il11	Il12b	Il15	Il18	Il1b
E	Il27	Il2ra	Il4	Il6	Il7	Irf4	Log3	Lck	Map3k7	Ms4a1	Nck1	Nos2
F	Nr3c1	Pdcd1lg2	Pik3r1	Prkcd	Prkca	Plprc	Rag1	Relb	Ripk2	Socs1	Spp1	Tgfb1
G	Thy1	Tlr1	Tlr4	Tlr6	Tnfrsf13b	Tnfrsf13c	Tnfrsf13b	Tnfrsf14	Traf6	Trp53	Vav1	Was
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	SBM0950182	ENSMUST00000017841.3	Ada	ENSMUSG0000017697	adenosine deaminase Source MGI Symbol Acc MGI 87916
A02	SBM0782035	ENSMUST00000079362.12	Apc	ENSMUSG0000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A03	SBM0983531	ENSMUST000000238184.1	Bad	ENSMUSG0000024959	BCL2-associated agonist of cell death Source MGI Symbol Acc MGI 1096330
A04	SBM0876340	ENSMUST000000189999.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A05	SBM0777218	ENSMUST000000205584.1	Blm	ENSMUSG0000030528	Bloom syndrome, RecQ like helicase Source MGI Symbol Acc MGI 1328362
A06	SBM0732165	ENSMUST00000093517.6	Casp3	ENSMUSG0000031628	caspase 3 Source MGI Symbol Acc MGI 107739
A07	SBM0689437	ENSMUST000000114471.2	Cblb	ENSMUSG0000022637	Casitas B-lineage lymphoma b Source MGI Symbol Acc MGI 2146430
A08	SBM0907619	ENSMUST000000182935.7	Ccnd3	ENSMUSG00000034165	cyclin D3 Source MGI Symbol Acc MGI 88315
A09	SBM1061431	ENSMUST000000142793.1	Cd1d1	ENSMUSG0000028076	CD1d1 antigen Source MGI Symbol Acc MGI 107674
A10	SBM1024086	ENSMUST000000029456.4	Cd2	ENSMUSG0000027863	CD2 antigen Source MGI Symbol Acc MGI 88320
A11	SBM0735565	ENSMUST000000027165.2	Cd28	ENSMUSG0000026012	CD28 antigen Source MGI Symbol Acc MGI 88327
A12	SBM1090383	ENSMUST000000030964.5	Cd38	ENSMUSG0000029084	CD38 antigen Source MGI Symbol Acc MGI 107474
B01	SBM0906451	ENSMUST000000034602.8	Cd3d	ENSMUSG0000032094	CD3 antigen, delta polypeptide Source MGI Symbol Acc MGI 88331
B02	SBM0819334	ENSMUST000000214582.1	Cd3e	ENSMUSG00000032093	CD3 antigen, epsilon polypeptide Source MGI Symbol Acc MGI 88332
B03	SBM0933467	ENSMUST000000002101.11	Cd3g	ENSMUSG0000002033	CD3 antigen, gamma polypeptide Source MGI Symbol Acc MGI 88333
B04	SBM1064445	ENSMUST000000024044.6	Cd4	ENSMUSG0000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B05	SBM0757957	ENSMUST000000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B06	SBM0708134	ENSMUST000000033466.1	Cd40lg	ENSMUSG0000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
B07	SBM0858999	ENSMUST000000229640.1	Cd47	ENSMUSG0000055447	CD47 antigen (Rh-related antigen, integrin-associated signal transducer) Source MGI Symbol Acc MGI 96617
B08	SBM0786281	ENSMUST000000015499.13	Cd48	ENSMUSG0000015355	CD48 antigen Source MGI Symbol Acc MGI 88339
B09	SBM0877871	ENSMUST000000097563.8	Cd74	ENSMUSG0000024610	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) Source MGI Symbol Acc MGI 96534
B10	SBM1062752	ENSMUST000000003469.7	Cd79a	ENSMUSG0000003379	CD79A antigen (immunoglobulin-associated alpha) Source MGI Symbol Acc MGI 101774
B11	SBM0815761	ENSMUST000000128762.8	Cd81	ENSMUSG0000037706	CD81 antigen Source MGI Symbol Acc MGI 1096398
B12	SBM0809834	ENSMUST000000205054.1	Cd8a	ENSMUSG0000053977	CD8 antigen, alpha chain Source MGI Symbol Acc MGI 88346
C01	SBM1023066	ENSMUST000000065248.8	Cd8b1	ENSMUSG0000053044	CD8 antigen, beta chain 1 Source MGI Symbol Acc MGI 88347
C02	SBM1034022	ENSMUST000000023829.7	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
C03	SBM0783110	ENSMUST000000195737.1	Cr2	ENSMUSG0000026616	complement receptor 2 Source MGI Symbol Acc MGI 88489
C04	SBM0903322	ENSMUST000000155557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
C05	SBM1080991	ENSMUST000000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
C06	SBM0711116	ENSMUST000000124816.1	Ctla4	ENSMUSG0000026011	cytotoxic T-lymphocyte-associated protein 4 Source MGI Symbol Acc MGI 88556
C07	SBM0703161	ENSMUST000000134244.1	Cxd12	ENSMUSG0000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
C08	SBM0923037	ENSMUST000000052172.6	Cxcr4	ENSMUSG0000045382	chemokine (C-X-C motif) receptor 4 Source MGI Symbol Acc MGI 109563
C09	SBM0950831	ENSMUST000000179828.7	Cxcr5	ENSMUSG0000047880	chemokine (C-X-C motif) receptor 5 Source MGI Symbol Acc MGI 103567
C10	SBM0812511	ENSMUST000000047812.7	Dpp4	ENSMUSG0000035000	dipeptidylpeptidase 4 Source MGI Symbol Acc MGI 94919
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0782056	064795.5	Egr1	000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
C12	SBM0730952	ENSMUST00000110549.2	Fli3	ENSMUSG0000042817	FMS-like tyrosine kinase 3 Source MGI Symbol Acc MGI 95559
D01	SBM0951877	ENSMUST00000234479.1	Foxp3	ENSMUSG00000039521	forkhead box P3 Source MGI Symbol Acc MGI 1891436
D02	SBM1067414	ENSMUST00000105522.8	H60b	ENSMUSG00000075297	histocompatibility 60b Source MGI Symbol Acc MGI 3649078
D03	SBM0939146	ENSMUST00000155242.7	Hsp90aa1	ENSMUSG00000021270	heat shock protein 90, alpha (cytosolic), class A member 1 Source MGI Symbol Acc MGI 96250
D04	SBM0806584	ENSMUST00000215003.1	Icam1	ENSMUSG00000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
D05	SBM0898505	ENSMUST00000105393.2	Icosl	ENSMUSG0000000732	icos ligand Source MGI Symbol Acc MGI 1354701
D06	SBM0903694	ENSMUST00000068592.4	Ifnf	ENSMUSG00000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D07	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D08	SBM0752881	ENSMUST00000094892.11	Il11	ENSMUSG00000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
D09	SBM0957286	ENSMUST00000102796.9	Il12b	ENSMUSG00000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
D10	SBM0737685	ENSMUST00000034148.6	Il15	ENSMUSG00000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
D11	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG00000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
D12	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG00000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
E01	SBM0706373	ENSMUST00000058429.5	Il27	ENSMUSG00000044701	interleukin 27 Source MGI Symbol Acc MGI 2384409
E02	SBM1067326	ENSMUST00000028111.5	Il2ra	ENSMUSG00000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
E03	SBM0926369	ENSMUST00000150568.7	Il4	ENSMUSG00000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
E04	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG00000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
E05	SBM1037504	ENSMUST00000168269.7	Il7	ENSMUSG00000040329	interleukin 7 Source MGI Symbol Acc MGI 96561
E06	SBM0761311	ENSMUST00000021784.9	Irf4	ENSMUSG00000021356	interferon regulatory factor 4 Source MGI Symbol Acc MGI 1096873
E07	SBM0908747	ENSMUST00000032217.1	Lag3	ENSMUSG00000030124	lymphocyte-activation gene 3 Source MGI Symbol Acc MGI 106588
E08	SBM1031699	ENSMUST00000067240.10	Lck	ENSMUSG00000000409	lymphocyte protein tyrosine kinase Source MGI Symbol Acc MGI 96756
E09	SBM0833481	ENSMUST00000037607.10	Map3k7	ENSMUSG00000028284	mitogen-activated protein kinase kinase kinase 7 Source MGI Symbol Acc MGI 1346877
E10	SBM1078430	ENSMUST00000169159.2	Ms4a1	ENSMUSG00000024673	membrane-spanning 4-domains, subfamily A, member 1 Source MGI Symbol Acc MGI 88321
E11	SBM0730618	ENSMUST00000188670.1	Nck1	ENSMUSG00000032475	non-catalytic region of tyrosine kinase adaptor protein 1 Source MGI Symbol Acc MGI 109601
E12	SBM0835086	ENSMUST00000208783.1	Nos2	ENSMUSG00000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
F01	SBM0963014	ENSMUST00000115571.7	Nr3c1	ENSMUSG00000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
F02	SBM0991405	ENSMUST00000235164.1	Pdcd1lg2	ENSMUSG0000016498	programmed cell death 1 ligand 2 Source MGI Symbol Acc MGI 1930125
F03	SBM0805909	ENSMUST00000035532.12	Pik3r1	ENSMUSG00000041417	phosphoinositide-3-kinase regulatory subunit 1 Source MGI Symbol Acc MGI 97583
F04	SBM0672668	ENSMUST00000135714.2	Prkcd	ENSMUSG00000021948	protein kinase C, delta Source MGI Symbol Acc MGI 97598
F05	SBM0873217	ENSMUST00000195628.1	Prkcq	ENSMUSG00000026778	protein kinase C, theta Source MGI Symbol Acc MGI 97601
F06	SBM0851018	ENSMUST00000183229.2	Ptpnc	ENSMUSG00000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
F07	SBM0803807	ENSMUST00000078494.5	Rag1	ENSMUSG00000061311	recombination activating gene 1 Source MGI Symbol Acc MGI 97848
F08	SBM1089153	ENSMUST00000094762.9	Relb	ENSMUSG00000002983	avian reticuloendotheliosis viral (v-rel) oncogene related B Source MGI Symbol Acc MGI 103289
F09	SBM0781529	ENSMUST00000037035.11	Ripk2	ENSMUSG00000041135	receptor (TNFRSF)-interacting serine-threonine kinase 2 Source MGI Symbol Acc MGI 1891456
F10	SBM0830785	ENSMUST00000229866.1	Socs1	ENSMUSG00000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0826950	ENSMUST00000086833.12	Spp1	ENSMUSG0000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
F12	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G01	SBM0937058	ENSMUST00000215156.1	Thy1	ENSMUSG0000032011	thymus cell antigen 1, theta Source MGI Symbol Acc MGI 98747
G02	SBM0864936	ENSMUST00000059349.5	Tlr1	ENSMUSG0000044827	toll-like receptor 1 Source MGI Symbol Acc MGI 1341295
G03	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG0000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G04	SBM0968629	ENSMUST00000201307.1	Tlr6	ENSMUSG0000051498	toll-like receptor 6 Source MGI Symbol Acc MGI 1341296
G05	SBM0700015	ENSMUST00000101103.3	Tnfrsf13b	ENSMUSG0000010142	tumor necrosis factor receptor superfamily, member 13b Source MGI Symbol Acc MGI 1889411
G06	SBM0747267	ENSMUST00000109535.2	Tnfrsf13c	ENSMUSG0000068105	tumor necrosis factor receptor superfamily, member 13c Source MGI Symbol Acc MGI 1919299
G07	SBM0908217	ENSMUST00000208683.1	Tnfsf13b	ENSMUSG0000031497	tumor necrosis factor (ligand) superfamily, member 13b Source MGI Symbol Acc MGI 1344376
G08	SBM0681467	ENSMUST00000005976.7	Tnfsf14	ENSMUSG0000005824	tumor necrosis factor (ligand) superfamily, member 14 Source MGI Symbol Acc MGI 1355317
G09	SBM1225398	ENSMUST00000004949.7	Traf6	ENSMUSG0000027164	TNF receptor-associated factor 6 Source MGI Symbol Acc MGI 108072
G10	SBM0841427	ENSMUST00000108657.3	Trp53	ENSMUSG0000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G11	SBM0771297	ENSMUST00000005889.15	Vav1	ENSMUSG0000034116	vav 1 oncogene Source MGI Symbol Acc MGI 98923
G12	SBM0977884	ENSMUST00000033505.6	Was	ENSMUSG0000031165	Wiskott-Aldrich syndrome Source MGI Symbol Acc MGI 105059
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	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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