

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

Mouse Cell Surface Markers

Cat. no. 249950 SBMM-055ZR

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	Alcam	C5ar1	Cd160	Cd163	Cd19	Cd1d1	Cd1d2	Cd2	Cd200r1	Cd209a	Cd22	Cd244a
B	Cd247	Cd24a	Cd276	Cd28	Cd34	Cd37	Cd38	Cd3d	Cd3g	Cd4	Cd40	Cd40lg
C	Cd5	Cd6	Cd63	Cd69	Cd7	Cd70	Cd72	Cd74	Cd79a	Cd79b	Cd80	Cd83
D	Cd86	Cd8a	Cd8b1	Cd96	Chst10	Col1a1	Col1a2	Cr2	Cst1r	Ctla4	Dpp4	Eng
E	Epcam	Fas	Fcer1a	Fcer2a	Fcgr1	H2-Q10	Icam2	Il12rb1	Il1r2	Il2ra	Ilga1	Ilga2
F	Ilga3	Klrc1	Klrd1	Krt18	Krt5	Krt8	Ms4a1	Myh10	Myh9	Myocd	Ncam1	Nos3
G	Nt5e	Pecam1	Reln	S100a8	Selp	Sl6gal1	Tek	Tnfrsf4	Tnfrsf8	Tpsab1	Vcam1	Vwf
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	SBM0797639	ENSMUST00000168071.1	Alcam	ENSMUSG0000022636	activated leukocyte cell adhesion molecule Source MGI Symbol Acc MGI 1313266
A02	SBM0790759	ENSMUST00000209442.1	C5ar1	ENSMUSG0000049130	complement component 5a receptor 1 Source MGI Symbol Acc MGI 88232
A03	SBM1024988	ENSMUST00000047702.7	Cd160	ENSMUSG0000038304	CD160 antigen Source MGI Symbol Acc MGI 1860383
A04	SBM1034175	ENSMUST00000112541.7	Cd163	ENSMUSG0000008845	CD163 antigen Source MGI Symbol Acc MGI 2135946
A05	SBM0688343	ENSMUST00000206325.1	Cd19	ENSMUSG0000030724	CD19 antigen Source MGI Symbol Acc MGI 88319
A06	SBM1061431	ENSMUST00000142793.1	Cd1d1	ENSMUSG0000028076	CD1d1 antigen Source MGI Symbol Acc MGI 107674
A07	SBM1006219	ENSMUST00000194208.5	Cd1d2	ENSMUSG0000041750	CD1d2 antigen Source MGI Symbol Acc MGI 107675
A08	SBM1024086	ENSMUST00000029456.4	Cd2	ENSMUSG0000027863	CD2 antigen Source MGI Symbol Acc MGI 88320
A09	SBM0980867	ENSMUST00000231633.1	Cd200r1	ENSMUSG0000022667	CD200 receptor 1 Source MGI Symbol Acc MGI 1889024
A10	SBM0940548	ENSMUST00000207906.1	Cd209a	ENSMUSG0000031494	CD209a antigen Source MGI Symbol Acc MGI 2157942
A11	SBM1084396	ENSMUST00000108125.8	Cd22	ENSMUSG0000030577	CD22 antigen Source MGI Symbol Acc MGI 88322
A12	SBM0883796	ENSMUST00000195804.1	Cd244a	ENSMUSG0000004709	CD244 molecule A Source MGI Symbol Acc MGI 109294
B01	SBM0899383	ENSMUST00000161559.2	Cd247	ENSMUSG0000005763	CD247 antigen Source MGI Symbol Acc MGI 88334
B02	SBM0882434	ENSMUST00000214476.1	Cd24a	ENSMUSG00000047139	CD24a antigen Source MGI Symbol Acc MGI 88323
B03	SBM0780063	ENSMUST00000216629.1	Cd276	ENSMUSG0000035914	CD276 antigen Source MGI Symbol Acc MGI 2183926
B04	SBM0735565	ENSMUST00000027165.2	Cd28	ENSMUSG0000026012	CD28 antigen Source MGI Symbol Acc MGI 88327
B05	SBM1031595	ENSMUST00000110815.8	Cd34	ENSMUSG0000016494	CD34 antigen Source MGI Symbol Acc MGI 88329
B06	SBM0752803	ENSMUST00000209779.1	Cd37	ENSMUSG0000030798	CD37 antigen Source MGI Symbol Acc MGI 88330
B07	SBM1090383	ENSMUST00000030964.5	Cd38	ENSMUSG0000029084	CD38 antigen Source MGI Symbol Acc MGI 107474
B08	SBM0906451	ENSMUST00000034602.8	Cd3d	ENSMUSG0000032094	CD3 antigen, delta polypeptide Source MGI Symbol Acc MGI 88331
B09	SBM0933467	ENSMUST00000002101.11	Cd3g	ENSMUSG0000002033	CD3 antigen, gamma polypeptide Source MGI Symbol Acc MGI 88333
B10	SBM1064445	ENSMUST00000024044.6	Cd4	ENSMUSG0000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B11	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B12	SBM0708134	ENSMUST00000033466.1	Cd40lg	ENSMUSG0000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
C01	SBM0993064	ENSMUST00000025571.8	Cd5	ENSMUSG0000024669	CD5 antigen Source MGI Symbol Acc MGI 88340
C02	SBM0977893	ENSMUST00000174176.2	Cd6	ENSMUSG0000024670	CD6 antigen Source MGI Symbol Acc MGI 103566
C03	SBM0726911	ENSMUST00000219317.1	Cd63	ENSMUSG0000025351	CD63 antigen Source MGI Symbol Acc MGI 99529
C04	SBM0829218	ENSMUST00000204411.1	Cd69	ENSMUSG0000030156	CD69 antigen Source MGI Symbol Acc MGI 88343
C05	SBM0675219	ENSMUST00000163465.1	Cd7	ENSMUSG0000025163	CD7 antigen Source MGI Symbol Acc MGI 88344
C06	SBM0822094	ENSMUST00000019633.7	Cd70	ENSMUSG0000019489	CD70 antigen Source MGI Symbol Acc MGI 1195273
C07	SBM0704106	ENSMUST00000098104.9	Cd72	ENSMUSG0000028459	CD72 antigen Source MGI Symbol Acc MGI 88345
C08	SBM0877871	ENSMUST00000097563.8	Cd74	ENSMUSG0000024610	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) Source MGI Symbol Acc MGI 96534
C09	SBM1062752	ENSMUST00000003469.7	Cd79a	ENSMUSG0000003379	CD79A antigen (immunoglobulin-associated alpha) Source MGI Symbol Acc MGI 101774
C10	SBM0967037	ENSMUST00000044228.10	Cd79b	ENSMUSG0000040592	CD79B antigen Source MGI Symbol Acc MGI 96431
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1043965	232409.1	Cd80	000075122	CD80 antigen Source MGI Symbol Acc MGI 101775
C12	SBM0904565	ENSMUST00000015540.3	Cd83	ENSMUSG0000015396	CD83 antigen Source MGI Symbol Acc MGI 1328316
D01	SBM0889253	ENSMUST00000089620.10	Cd86	ENSMUSG00000022901	CD86 antigen Source MGI Symbol Acc MGI 101773
D02	SBM0809834	ENSMUST00000205054.1	Cd8a	ENSMUSG00000053977	CD8 antigen, alpha chain Source MGI Symbol Acc MGI 88346
D03	SBM1023066	ENSMUST00000065248.8	Cd8b1	ENSMUSG00000053044	CD8 antigen, beta chain 1 Source MGI Symbol Acc MGI 88347
D04	SBM0780762	ENSMUST00000023336.9	Cd96	ENSMUSG00000022657	CD96 antigen Source MGI Symbol Acc MGI 1934368
D05	SBM0934249	ENSMUST00000194657.1	Chst10	ENSMUSG00000026080	carbohydrate sulfotransferase 10 Source MGI Symbol Acc MGI 2138283
D06	SBM0911341	ENSMUST00000139974.1	Col1a1	ENSMUSG0000001506	collagen, type I, alpha 1 Source MGI Symbol Acc MGI 88467
D07	SBM0673080	ENSMUST00000132029.1	Col1a2	ENSMUSG00000029661	collagen, type I, alpha 2 Source MGI Symbol Acc MGI 88468
D08	SBM0783110	ENSMUST00000195737.1	Cr2	ENSMUSG00000026616	complement receptor 2 Source MGI Symbol Acc MGI 88489
D09	SBM0818557	ENSMUST00000025523.12	Csf1r	ENSMUSG00000024621	colony stimulating factor 1 receptor Source MGI Symbol Acc MGI 1339758
D10	SBM0711116	ENSMUST00000124816.1	Ctla4	ENSMUSG00000026011	cytotoxic T-lymphocyte-associated protein 4 Source MGI Symbol Acc MGI 88556
D11	SBM0812511	ENSMUST00000047812.7	Dpp4	ENSMUSG00000035000	dipeptidylpeptidase 4 Source MGI Symbol Acc MGI 94919
D12	SBM0877670	ENSMUST00000156306.1	Eng	ENSMUSG00000026814	endoglin Source MGI Symbol Acc MGI 95392
E01	SBM0817447	ENSMUST00000053577.8	Epcam	ENSMUSG00000045394	epithelial cell adhesion molecule Source MGI Symbol Acc MGI 106653
E02	SBM0856649	ENSMUST00000112472.3	Fas	ENSMUSG00000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
E03	SBM0825377	ENSMUST00000193017.1	Fcrla	ENSMUSG00000005339	Fc receptor, IgE, high affinity I, alpha polypeptide Source MGI Symbol Acc MGI 95494
E04	SBM0844408	ENSMUST00000005678.5	Fcrla	ENSMUSG00000005540	Fc receptor, IgE, low affinity II, alpha polypeptide Source MGI Symbol Acc MGI 95497
E05	SBM0845170	ENSMUST00000029748.7	Fcgr1	ENSMUSG00000015947	Fc receptor, IgG, high affinity I Source MGI Symbol Acc MGI 95498
E06	SBM0856796	ENSMUST00000174589.1	H2-Q10	ENSMUSG00000067235	histocompatibility 2, Q region locus 10 Source MGI Symbol Acc MGI 95929
E07	SBM0795564	ENSMUST00000106813.8	Icam2	ENSMUSG00000001029	intercellular adhesion molecule 2 Source MGI Symbol Acc MGI 96394
E08	SBM0894668	ENSMUST00000212657.1	Il12rb1	ENSMUSG00000000791	interleukin 12 receptor, beta 1 Source MGI Symbol Acc MGI 104579
E09	SBM0820917	ENSMUST00000195770.1	Il1r2	ENSMUSG00000026073	interleukin 1 receptor, type II Source MGI Symbol Acc MGI 96546
E10	SBM1067326	ENSMUST00000028111.5	Il2ra	ENSMUSG00000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
E11	SBM0802692	ENSMUST00000061673.8	Itga1	ENSMUSG00000042284	integrin alpha 1 Source MGI Symbol Acc MGI 96599
E12	SBM1002416	ENSMUST00000056117.9	Itga2	ENSMUSG00000015533	integrin alpha 2 Source MGI Symbol Acc MGI 96600
F01	SBM0845438	ENSMUST00000140342.1	Itga3	ENSMUSG00000001507	integrin alpha 3 Source MGI Symbol Acc MGI 96602
F02	SBM0783155	ENSMUST00000118447.1	Klrc1	ENSMUSG00000030167	killer cell lectin-like receptor subfamily C, member 1 Source MGI Symbol Acc MGI 1336161
F03	SBM0876573	ENSMUST00000119520.7	Klrd1	ENSMUSG00000030165	killer cell lectin-like receptor, subfamily D, member 1 Source MGI Symbol Acc MGI 1196275
F04	SBM0961106	ENSMUST00000023803.7	Krt18	ENSMUSG00000023043	keratin 18 Source MGI Symbol Acc MGI 96692
F05	SBM0824321	ENSMUST00000023709.6	Krt5	ENSMUSG00000061527	keratin 5 Source MGI Symbol Acc MGI 96702
F06	SBM0683062	ENSMUST00000023952.9	Krt8	ENSMUSG00000049382	keratin 8 Source MGI Symbol Acc MGI 96705
F07	SBM1078430	ENSMUST00000169159.2	Ms4a1	ENSMUSG00000024673	membrane-spanning 4-domains, subfamily A, member 1 Source MGI Symbol Acc MGI 88321
F08	SBM0882827	ENSMUST00000155765.1	Myh10	ENSMUSG00000020900	myosin, heavy polypeptide 10, non-muscle Source MGI Symbol Acc MGI 1930780
F09	SBM1084443	ENSMUST00000124844.7	Myh9	ENSMUSG00000022443	myosin, heavy polypeptide 9, non-muscle Source MGI Symbol Acc MGI 107717
F10	SBM1060498	ENSMUST00000108695.8	Myocd	ENSMUSG00000020542	myocardin Source MGI Symbol Acc MGI 2137495

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1225395	ENSMUST00000114476.7	Ncam1	ENSMUSG00000039542	neural cell adhesion molecule 1 Source MGI Symbol Acc MGI 97281
F12	SBM0681619	ENSMUST00000030834.6	Nos3	ENSMUSG00000028978	nitric oxide synthase 3, endothelial cell Source MGI Symbol Acc MGI 97362
G01	SBM1019601	ENSMUST00000187166.1	Nt5e	ENSMUSG00000032420	5 nucleotidase, ecto Source MGI Symbol Acc MGI 99782
G02	SBM1044090	ENSMUST00000068021.8	Pecam1	ENSMUSG00000020717	platelet/endothelial cell adhesion molecule 1 Source MGI Symbol Acc MGI 97537
G03	SBM0984170	ENSMUST00000012849.14	Retn	ENSMUSG0000012705	resistin Source MGI Symbol Acc MGI 1888506
G04	SBM0822839	ENSMUST00000198156.1	S100a8	ENSMUSG00000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244
G05	SBM1080696	ENSMUST00000161020.7	Selp	ENSMUSG00000026580	selectin, platelet Source MGI Symbol Acc MGI 98280
G06	SBM0748678	ENSMUST00000128050.7	St6gal1	ENSMUSG00000022885	beta galactoside alpha 2,6 sialyltransferase 1 Source MGI Symbol Acc MGI 108470
G07	SBM0875032	ENSMUST00000131958.1	Tek	ENSMUSG00000006386	TEK receptor tyrosine kinase Source MGI Symbol Acc MGI 98664
G08	SBM0900193	ENSMUST00000143576.1	Tnfrsf4	ENSMUSG00000029075	tumor necrosis factor receptor superfamily, member 4 Source MGI Symbol Acc MGI 104512
G09	SBM0814576	ENSMUST00000123027.1	Tnfrsf8	ENSMUSG00000028602	tumor necrosis factor receptor superfamily, member 8 Source MGI Symbol Acc MGI 99908
G10	SBM1010812	ENSMUST00000153118.1	Tpsab1	ENSMUSG00000024173	tryptase alpha/beta 1 Source MGI Symbol Acc MGI 96943
G11	SBM1225402	ENSMUST00000029574.12	Vcam1	ENSMUSG00000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G12	SBM0711301	ENSMUST00000150548.7	Vwf	ENSMUSG00000001930	Von Willebrand factor Source MGI Symbol Acc MGI 98941
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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