

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

Mouse Common Cytokines

Cat. no. 249950 SBMM-021ZR

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	Adipoq	Aimp1	Bmp1	Bmp2	Bmp3	Bmp4	Bmp5	Bmp6	Bmp7	Cd40lg	Cd70	Cntf
B	Csf1	Csf2	Csf3	Ctcf1	Fasl	Fgf10	Gdf15	Gdf2	Gdf5	Gdf9	Ifna2	Ifna4
C	Ifnb1	Ifng	Il10	Il11	Il12b	Il13	Il15	Il16	Il17a	Il17b	Il17c	Il17f
D	Il18	Il19	Il1a	Il1b	Il1rn	Il2	Il20	Il21	Il23a	Il24	Il25	Il27
E	Il3	Il4	Il5	Il6	Il7	Il9	Inha	Inhba	Lefty1	Lif	Lta	Ltb
F	Mif	Mstn	Nampt	Osm	Scgb3a1	Spp1	Tgfb1	Tgfb2	Thpo	Tnf	Tnfrsf11b	Tnfrsf10
G	Tnfrsf11	Tnfrsf12	Tnfrsf13	Tnfrsf13b	Tnfrsf14	Tnfrsf15	Tnfrsf18	Tnfrsf4	Tnfrsf8	Tnfrsf9	Tslna	Vegfa
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	SBM0903115	ENSMUST00000023593.5	Adipoq	ENSMUSG0000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A02	SBM0758354	ENSMUST00000196206.4	Aimp1	ENSMUSG0000028029	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 Source MGI Symbol Acc MGI 102774
A03	SBM1022339	ENSMUST00000022693.8	Bmp1	ENSMUSG0000022098	bone morphogenetic protein 1 Source MGI Symbol Acc MGI 88176
A04	SBM0831820	ENSMUST00000028836.6	Bmp2	ENSMUSG0000027358	bone morphogenetic protein 2 Source MGI Symbol Acc MGI 88177
A05	SBM0867543	ENSMUST000000200388.1	Bmp3	ENSMUSG0000029335	bone morphogenetic protein 3 Source MGI Symbol Acc MGI 88179
A06	SBM0845886	ENSMUST000000100676.2	Bmp4	ENSMUSG0000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
A07	SBM0922578	ENSMUST000000137213.1	Bmp5	ENSMUSG0000032179	bone morphogenetic protein 5 Source MGI Symbol Acc MGI 88181
A08	SBM0892506	ENSMUST000000171970.2	Bmp6	ENSMUSG0000039004	bone morphogenetic protein 6 Source MGI Symbol Acc MGI 88182
A09	SBM1004016	ENSMUST000000137247.1	Bmp7	ENSMUSG0000008999	bone morphogenetic protein 7 Source MGI Symbol Acc MGI 103302
A10	SBM0708134	ENSMUST00000033466.1	Cd40lg	ENSMUSG0000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
A11	SBM0822094	ENSMUST00000019633.7	Cd70	ENSMUSG0000019489	CD70 antigen Source MGI Symbol Acc MGI 1195273
A12	SBM0749576	ENSMUST000000112933.1	Cntf	ENSMUSG0000079415	ciliary neurotrophic factor Source MGI Symbol Acc MGI 88439
B01	SBM0903322	ENSMUST00000015557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B02	SBM1080991	ENSMUST000000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B03	SBM0837472	ENSMUST000000038886.2	Csf3	ENSMUSG0000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
B04	SBM0812936	ENSMUST000000206997.1	Ctf1	ENSMUSG0000042340	cardiotrophin 1 Source MGI Symbol Acc MGI 105115
B05	SBM0967876	ENSMUST00000000834.3	FasL	ENSMUSG0000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
B06	SBM0904863	ENSMUST000000128103.8	Fgf10	ENSMUSG0000021732	fibroblast growth factor 10 Source MGI Symbol Acc MGI 1099809
B07	SBM1020220	ENSMUST000000003808.7	Gdf15	ENSMUSG0000038508	growth differentiation factor 15 Source MGI Symbol Acc MGI 1346047
B08	SBM1079890	ENSMUST000000100720.1	Gdf2	ENSMUSG0000072625	growth differentiation factor 2 Source MGI Symbol Acc MGI 1321394
B09	SBM0811347	ENSMUST000000040162.2	Gdf5	ENSMUSG0000038259	growth differentiation factor 5 Source MGI Symbol Acc MGI 95688
B10	SBM0727497	ENSMUST000000018382.6	Gdf9	ENSMUSG0000018238	growth differentiation factor 9 Source MGI Symbol Acc MGI 95692
B11	SBM0773737	ENSMUST000000105147.1	Ifna2	ENSMUSG0000078354	interferon alpha 2 Source MGI Symbol Acc MGI 107666
B12	SBM0940429	ENSMUST000000094973.4	Ifna4	ENSMUSG0000070904	interferon alpha 4 Source MGI Symbol Acc MGI 107664
C01	SBM0872658	ENSMUST000000055671.4	Ifnb1	ENSMUSG0000048806	interferon beta 1, fibroblast Source MGI Symbol Acc MGI 107657
C02	SBM0903694	ENSMUST000000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C03	SBM1004151	ENSMUST000000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
C04	SBM0752881	ENSMUST000000094892.11	Il11	ENSMUSG0000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
C05	SBM0957286	ENSMUST000000102796.9	Il12b	ENSMUSG0000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
C06	SBM0860496	ENSMUST000000020650.1	Il13	ENSMUSG0000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
C07	SBM0737685	ENSMUST000000034148.6	Il15	ENSMUSG0000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
C08	SBM0679719	ENSMUST000000001792.11	Il16	ENSMUSG0000001741	interleukin 16 Source MGI Symbol Acc MGI 1270855
C09	SBM1055424	ENSMUST000000027061.4	Il17a	ENSMUSG0000025929	interleukin 17A Source MGI Symbol Acc MGI 107364
C10	SBM0707381	ENSMUST000000235713.1	Il17b	ENSMUSG0000024578	interleukin 17B Source MGI Symbol Acc MGI 1928397
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1091760	050963.3	Il17c	000046108	interleukin 17C Source MGI Symbol Acc MGI 2446486
C12	SBM0790079	ENSMUST00000039046.9	Il17f	ENSMUSG0000041872	interleukin 17F Source MGI Symbol Acc MGI 2676631
D01	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG0000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
D02	SBM0772465	ENSMUST00000187410.6	Il19	ENSMUSG0000016524	interleukin 19 Source MGI Symbol Acc MGI 1890472
D03	SBM1007460	ENSMUST0000028882.1	Il1a	ENSMUSG0000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
D04	SBM0738485	ENSMUST0000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D05	SBM0732530	ENSMUST00000142093.6	Il1rn	ENSMUSG0000026981	interleukin 1 receptor antagonist Source MGI Symbol Acc MGI 96547
D06	SBM0797059	ENSMUST0000029275.5	Il2	ENSMUSG0000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D07	SBM0805691	ENSMUST00000188581.1	Il20	ENSMUSG0000026416	interleukin 20 Source MGI Symbol Acc MGI 1890473
D08	SBM0747287	ENSMUST00000161015.1	Il21	ENSMUSG0000027718	interleukin 21 Source MGI Symbol Acc MGI 1890474
D09	SBM0691721	ENSMUST00000218109.1	Il23a	ENSMUSG0000025383	interleukin 23, alpha subunit p19 Source MGI Symbol Acc MGI 1932410
D10	SBM0705042	ENSMUST00000191279.1	Il24	ENSMUSG0000026420	interleukin 24 Source MGI Symbol Acc MGI 2135548
D11	SBM1081255	ENSMUST0000037863.5	Il25	ENSMUSG0000040770	interleukin 25 Source MGI Symbol Acc MGI 2155888
D12	SBM0706373	ENSMUST0000058429.5	Il27	ENSMUSG0000044701	interleukin 27 Source MGI Symbol Acc MGI 2384409
E01	SBM1089901	ENSMUST0000019058.5	Il3	ENSMUSG0000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
E02	SBM0926369	ENSMUST00000150568.7	Il4	ENSMUSG0000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
E03	SBM1034588	ENSMUST0000048605.2	Il5	ENSMUSG0000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
E04	SBM0742623	ENSMUST0000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
E05	SBM1037504	ENSMUST00000168269.7	Il7	ENSMUSG0000040329	interleukin 7 Source MGI Symbol Acc MGI 96561
E06	SBM0847018	ENSMUST0000022019.3	Il9	ENSMUSG0000021538	interleukin 9 Source MGI Symbol Acc MGI 96563
E07	SBM0852039	ENSMUST0000037330.4	Inha	ENSMUSG0000032968	inhibin alpha Source MGI Symbol Acc MGI 96569
E08	SBM0694869	ENSMUST00000164993.1	Inhba	ENSMUSG0000041324	inhibin beta-A Source MGI Symbol Acc MGI 96570
E09	SBM0716026	ENSMUST0000037361.8	Lefty1	ENSMUSG0000038793	left right determination factor 1 Source MGI Symbol Acc MGI 107405
E10	SBM0873612	ENSMUST0000066283.11	Lif	ENSMUSG0000034394	leukemia inhibitory factor Source MGI Symbol Acc MGI 96787
E11	SBM0790437	ENSMUST0000025266.5	Lta	ENSMUSG0000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797
E12	SBM0777783	ENSMUST00000173510.1	Ltb	ENSMUSG0000024399	lymphotoxin B Source MGI Symbol Acc MGI 104796
F01	SBM0802241	ENSMUST00000218267.1	Mif	ENSMUSG0000033307	macrophage migration inhibitory factor (glycosylation-inhibiting factor) Source MGI Symbol Acc MGI 96982
F02	SBM0884770	ENSMUST0000027269.6	Mstn	ENSMUSG0000026100	myostatin Source MGI Symbol Acc MGI 95691
F03	SBM0859199	ENSMUST00000218491.1	Nampt	ENSMUSG0000020572	nicotinamide phosphoribosyltransferase Source MGI Symbol Acc MGI 1929865
F04	SBM0824436	ENSMUST00000131764.1	Osm	ENSMUSG0000058755	oncostatin M Source MGI Symbol Acc MGI 104749
F05	SBM0914111	ENSMUST0000043873.9	Scgb3a1	ENSMUSG0000064057	secretoglobin, family 3A, member 1 Source MGI Symbol Acc MGI 1915912
F06	SBM0826950	ENSMUST0000086833.12	Spp1	ENSMUSG0000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
F07	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
F08	SBM0955433	ENSMUST00000194960.1	Tgfb2	ENSMUSG0000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
F09	SBM0851394	ENSMUST00000231826.1	Thpo	ENSMUSG0000022847	thrombopoietin Source MGI Symbol Acc MGI 101875
F10	SBM0788439	ENSMUST0000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0675830	ENSMUST00000079772.3	Tnfrsf11b	ENSMUSG00000063727	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) Source MGI Symbol Acc MGI 109587
F12	SBM0969669	ENSMUST00000046383.11	Tnfsf10	ENSMUSG00000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G01	SBM1225403	ENSMUST00000022592.7	Tnfsf11	ENSMUSG00000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
G02	SBM0826302	ENSMUST000000181810.7	Tnfsf12	ENSMUSG00000097328	tumor necrosis factor (ligand) superfamily, member 12 Source MGI Symbol Acc MGI 1196259
G03	SBM1082975	ENSMUST00000018896.13	Tnfsf13	ENSMUSG00000089669	tumor necrosis factor (ligand) superfamily, member 13 Source MGI Symbol Acc MGI 1916833
G04	SBM0908217	ENSMUST000000208683.1	Tnfsf13b	ENSMUSG00000031497	tumor necrosis factor (ligand) superfamily, member 13b Source MGI Symbol Acc MGI 1344376
G05	SBM0681467	ENSMUST000000005976.7	Tnfsf14	ENSMUSG00000005824	tumor necrosis factor (ligand) superfamily, member 14 Source MGI Symbol Acc MGI 1355317
G06	SBM0925177	ENSMUST000000062246.6	Tnfsf15	ENSMUSG00000050395	tumor necrosis factor (ligand) superfamily, member 15 Source MGI Symbol Acc MGI 2180140
G07	SBM1044795	ENSMUST000000086084.1	Tnfsf18	ENSMUSG00000066755	tumor necrosis factor (ligand) superfamily, member 18 Source MGI Symbol Acc MGI 2673064
G08	SBM1089254	ENSMUST000000028024.4	Tnfsf4	ENSMUSG00000026700	tumor necrosis factor (ligand) superfamily, member 4 Source MGI Symbol Acc MGI 104511
G09	SBM0953038	ENSMUST000000030047.2	Tnfsf8	ENSMUSG00000028362	tumor necrosis factor (ligand) superfamily, member 8 Source MGI Symbol Acc MGI 88328
G10	SBM0986835	ENSMUST000000039490.8	Tnfsf9	ENSMUSG00000035678	tumor necrosis factor (ligand) superfamily, member 9 Source MGI Symbol Acc MGI 1101058
G11	SBM0926089	ENSMUST000000133803.7	Txlna	ENSMUSG00000053841	taxilin alpha Source MGI Symbol Acc MGI 105968
G12	SBM1079198	ENSMUST000000217017.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
H01	SBM1220560	ENSMUST000000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST000000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST000000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST000000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST000000166469.7	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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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