

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

Mouse Hematopoiesis

Cat. no. 249950 SBMM-054ZR

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	Hds1	Angpt1	Apc	Ash2l	Blnk	Cbfb	Ccr1	Cd14	Cd164	Cd1d1	Cd2	Cd27
B	Cd34	Cd3d	Cd3g	Cd4	Cd44	Cd80	Cd86	Cd8a	Cebpe	Cebpg	Csf1	Csf2
C	Dll1	Ets1	Etv6	Fli3l	Fut10	Fzd1	Gata1	Gata2	Hdac4	Hdac5	Hdac7	Hdac9
D	Il10	Il11	Il12b	Il1a	Il2	Il20	Il25	Il31ra	Il6st	Inha	Inhba	Jag1
E	Jag2	Kdr	Kit	Kitl	Lef1	Lmo2	Lrmp	Mai	Map4k1	Mmp9	Ncoa6	Nos2
F	Notch1	Notch2	Notch4	Pax5	Pecam1	Pf4	Plprc	Rbpj	Runx1	Sfen1	Socs5	Spp1
G	Stat1	Stat3	Stim2	Tal1	Tek	Tlr3	Tlr4	Tnfrsf11	Trim10	Vav1	Vegfa	Wnt3a
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	SBM0923977	ENSMUST00000023531.14	Hcls1	ENSMUSG0000022831	hematopoietic cell specific Lyn substrate 1 Source MGI Symbol Acc MGI 104568
A02	SBM0848818	ENSMUST00000022921.6	Angpt1	ENSMUSG0000022309	angiopoietin 1 Source MGI Symbol Acc MGI 108448
A03	SBM0782035	ENSMUST00000079362.12	Apc	ENSMUSG0000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A04	SBM0691922	ENSMUST000000110608.2	Ash2l	ENSMUSG0000031575	ASH2 like histone lysine methyltransferase complex subunit Source MGI Symbol Acc MGI 1344416
A05	SBM0801215	ENSMUST000000134568.1	Blnk	ENSMUSG00000061132	B cell linker Source MGI Symbol Acc MGI 96878
A06	SBM1014535	ENSMUST000000109395.7	Cbfb	ENSMUSG00000031885	core binding factor beta Source MGI Symbol Acc MGI 99851
A07	SBM1015405	ENSMUST00000026911.5	Ccr1	ENSMUSG0000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
A08	SBM0904854	ENSMUST000000061829.7	Cd14	ENSMUSG00000051439	CD14 antigen Source MGI Symbol Acc MGI 88318
A09	SBM1089983	ENSMUST000000189300.1	Cd164	ENSMUSG00000019818	CD164 antigen Source MGI Symbol Acc MGI 1859568
A10	SBM1061431	ENSMUST000000142793.1	Cd1d1	ENSMUSG0000028076	CD1d1 antigen Source MGI Symbol Acc MGI 107674
A11	SBM1024086	ENSMUST000000029456.4	Cd2	ENSMUSG0000027863	CD2 antigen Source MGI Symbol Acc MGI 88320
A12	SBM1093198	ENSMUST000000032486.12	Cd27	ENSMUSG00000030336	CD27 antigen Source MGI Symbol Acc MGI 88326
B01	SBM1031595	ENSMUST000000110815.8	Cd34	ENSMUSG0000016494	CD34 antigen Source MGI Symbol Acc MGI 88329
B02	SBM0906451	ENSMUST000000034602.8	Cd3d	ENSMUSG00000032094	CD3 antigen, delta polypeptide Source MGI Symbol Acc MGI 88331
B03	SBM0933467	ENSMUST000000002101.11	Cd3g	ENSMUSG00000002033	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	SBM0860996	ENSMUST000000111194.7	Cd44	ENSMUSG00000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
B06	SBM1043965	ENSMUST000000232409.1	Cd80	ENSMUSG00000075122	CD80 antigen Source MGI Symbol Acc MGI 101775
B07	SBM0889253	ENSMUST000000089620.10	Cd86	ENSMUSG00000022901	CD86 antigen Source MGI Symbol Acc MGI 101773
B08	SBM0809834	ENSMUST000000205054.1	Cd8a	ENSMUSG00000053977	CD8 antigen, alpha chain Source MGI Symbol Acc MGI 88346
B09	SBM0883069	ENSMUST000000064290.7	Cebpe	ENSMUSG00000052435	CCAAT/enhancer binding protein (C/EBP), epsilon Source MGI Symbol Acc MGI 103572
B10	SBM0872971	ENSMUST000000205752.1	Cebpg	ENSMUSG00000056216	CCAAT/enhancer binding protein (C/EBP), gamma Source MGI Symbol Acc MGI 104982
B11	SBM0903322	ENSMUST000000155557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B12	SBM1080991	ENSMUST000000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
C01	SBM0898031	ENSMUST000000124196.1	Dll1	ENSMUSG0000014773	delta like canonical Notch ligand 1 Source MGI Symbol Acc MGI 104659
C02	SBM0897035	ENSMUST000000184887.1	Ets1	ENSMUSG00000032035	E26 avian leukemia oncogene 1, 5 domain Source MGI Symbol Acc MGI 95455
C03	SBM0882697	ENSMUST000000169529.1	Etv6	ENSMUSG00000030199	ets variant 6 Source MGI Symbol Acc MGI 109336
C04	SBM0750431	ENSMUST000000211429.1	Fli3l	ENSMUSG0000110206	FMS-like tyrosine kinase 3 ligand Source MGI Symbol Acc MGI 95560
C05	SBM0785441	ENSMUST000000110527.8	Fut10	ENSMUSG0000046152	fucosyltransferase 10 Source MGI Symbol Acc MGI 2384748
C06	SBM0714051	ENSMUST000000054294.6	Fzd1	ENSMUSG0000044674	frizzled class receptor 1 Source MGI Symbol Acc MGI 1196625
C07	SBM0835110	ENSMUST000000033502.13	Gata1	ENSMUSG00000031162	GATA binding protein 1 Source MGI Symbol Acc MGI 95661
C08	SBM0720280	ENSMUST000000015197.8	Gata2	ENSMUSG0000015053	GATA binding protein 2 Source MGI Symbol Acc MGI 95662
C09	SBM0836538	ENSMUST000000097644.8	Hdac4	ENSMUSG0000026313	histone deacetylase 4 Source MGI Symbol Acc MGI 3036234
C10	SBM0874640	ENSMUST000000124077.7	Hdac5	ENSMUSG0000008855	histone deacetylase 5 Source MGI Symbol Acc MGI 1333784
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1026271	134258.1	Hdac7	000022475	histone deacetylase 7 Source MGI Symbol Acc MGI 1891835
C12	SBM0813970	ENSMUST00000209902.1	Hdac9	ENSMUSG0000004698	histone deacetylase 9 Source MGI Symbol Acc MGI 1931221
D01	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D02	SBM0752881	ENSMUST00000094892.11	Il11	ENSMUSG0000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
D03	SBM0957286	ENSMUST00000102796.9	Il12b	ENSMUSG0000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
D04	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG0000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
D05	SBM0797059	ENSMUST00000029275.5	Il2	ENSMUSG0000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D06	SBM0805691	ENSMUST00000188581.1	Il20	ENSMUSG0000026416	interleukin 20 Source MGI Symbol Acc MGI 1890473
D07	SBM1081255	ENSMUST00000037863.5	Il25	ENSMUSG0000040770	interleukin 25 Source MGI Symbol Acc MGI 2155888
D08	SBM0765874	ENSMUST00000224510.1	Il31ra	ENSMUSG0000050377	interleukin 31 receptor A Source MGI Symbol Acc MGI 2180511
D09	SBM0823451	ENSMUST00000183829.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
D10	SBM0852039	ENSMUST00000037330.4	Inha	ENSMUSG0000032968	inhibin alpha Source MGI Symbol Acc MGI 96569
D11	SBM0694869	ENSMUST00000164993.1	Inhba	ENSMUSG0000041324	inhibin beta-A Source MGI Symbol Acc MGI 96570
D12	SBM0986327	ENSMUST00000028735.7	Jag1	ENSMUSG0000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
E01	SBM0991172	ENSMUST00000221696.1	Jag2	ENSMUSG0000002799	jagged 2 Source MGI Symbol Acc MGI 1098270
E02	SBM0947462	ENSMUST00000149573.1	Kdr	ENSMUSG0000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
E03	SBM0996057	ENSMUST00000202167.1	Kit	ENSMUSG0000005672	KIT proto-oncogene receptor tyrosine kinase Source MGI Symbol Acc MGI 96677
E04	SBM0685433	ENSMUST00000105283.8	Kitl	ENSMUSG0000019966	kit ligand Source MGI Symbol Acc MGI 96974
E05	SBM1041904	ENSMUST00000198624.1	Lef1	ENSMUSG0000027985	lymphoid enhancer binding factor 1 Source MGI Symbol Acc MGI 96770
E06	SBM0674052	ENSMUST00000111140.2	Lmo2	ENSMUSG0000032698	LIM domain only 2 Source MGI Symbol Acc MGI 102811
E07	SBM1089939	ENSMUST00000149244.7	Lrmp	ENSMUSG0000030263	lymphoid-restricted membrane protein Source MGI Symbol Acc MGI 108424
E08	SBM0976497	ENSMUST00000028853.6	Mal	ENSMUSG0000027375	myelin and lymphocyte protein, T cell differentiation protein Source MGI Symbol Acc MGI 892970
E09	SBM0841614	ENSMUST00000207185.1	Map4k1	ENSMUSG0000037337	mitogen-activated protein kinase kinase kinase kinase 1 Source MGI Symbol Acc MGI 1346882
E10	SBM1089430	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E11	SBM0915877	ENSMUST00000043126.11	Ncoa6	ENSMUSG0000038369	nuclear receptor coactivator 6 Source MGI Symbol Acc MGI 1929915
E12	SBM0835086	ENSMUST00000208783.1	Nos2	ENSMUSG0000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
F01	SBM1060528	ENSMUST00000132820.1	Notch1	ENSMUSG0000026923	notch 1 Source MGI Symbol Acc MGI 97363
F02	SBM0724048	ENSMUST00000079812.7	Notch2	ENSMUSG0000027878	notch 2 Source MGI Symbol Acc MGI 97364
F03	SBM0822219	ENSMUST00000174707.1	Notch4	ENSMUSG0000015468	notch 4 Source MGI Symbol Acc MGI 107471
F04	SBM1071355	ENSMUST00000102932.9	Pax5	ENSMUSG0000014030	paired box 5 Source MGI Symbol Acc MGI 97489
F05	SBM1044090	ENSMUST00000068021.8	Pecam1	ENSMUSG0000020717	platelet/endothelial cell adhesion molecule 1 Source MGI Symbol Acc MGI 97537
F06	SBM0889385	ENSMUST00000031320.7	Pf4	ENSMUSG0000029373	platelet factor 4 Source MGI Symbol Acc MGI 1888711
F07	SBM0851018	ENSMUST00000183229.2	Ptpcr	ENSMUSG0000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
F08	SBM0925479	ENSMUST00000201912.3	Rbpj	ENSMUSG0000039191	recombination signal binding protein for immunoglobulin kappa J region Source MGI Symbol Acc MGI 96522
F09	SBM0812229	ENSMUST00000168195.7	Runx1	ENSMUSG0000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
F10	SBM0798806	ENSMUST00000021930.9	Sfxn1	ENSMUSG0000021474	sideroflexin 1 Source MGI Symbol Acc MGI 2137677

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0834297	ENSMUST00000041369.7	Socs5	ENSMUSG00000037104	suppressor of cytokine signaling 5 Source MGI Symbol Acc MGI 2385459
F12	SBM0826950	ENSMUST00000086833.12	Spp1	ENSMUSG00000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
G01	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG00000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G02	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G03	SBM0877798	ENSMUST00000201469.3	Stim2	ENSMUSG00000039156	stromal interaction molecule 2 Source MGI Symbol Acc MGI 2151156
G04	SBM0749408	ENSMUST00000161601.7	Tal1	ENSMUSG00000028717	T cell acute lymphocytic leukemia 1 Source MGI Symbol Acc MGI 98480
G05	SBM0875032	ENSMUST00000131958.1	Tek	ENSMUSG0000006386	TEK receptor tyrosine kinase Source MGI Symbol Acc MGI 98664
G06	SBM0964228	ENSMUST00000209772.1	Tlr3	ENSMUSG00000031639	toll-like receptor 3 Source MGI Symbol Acc MGI 2156367
G07	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG00000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G08	SBM1225403	ENSMUST00000022592.7	Tnfrsf11	ENSMUSG00000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
G09	SBM0879808	ENSMUST00000060524.10	Trim10	ENSMUSG00000073400	tripartite motif-containing 10 Source MGI Symbol Acc MGI 1338757
G10	SBM0771297	ENSMUST00000005889.15	Vav1	ENSMUSG00000034116	vav 1 oncogene Source MGI Symbol Acc MGI 98923
G11	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	SBM0757599	ENSMUST00000010044.7	Wnt3a	ENSMUSG00000009900	wingless-type MMTV integration site family, member 3A Source MGI Symbol Acc MGI 98956
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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