

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

Mouse JAK / STAT Signaling Pathway

Cat. no. 249950 SBMM-039ZR

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	A2m	Akt1	Bcl2l1	Ccnd1	Cdkn1a	Cebpb	Cebpd	Crk	Crp	Csf1r	Cxcl9	Egfr
B	Epor	F2	Fas	Fcer2a	Fcgr1	Gata3	Gbp2b	Ghr	Ifnar1	Ifng	Ifngr1	Il10ra
C	Il10rb	Il20	Il2ra	Il2rg	Il4	Il4ra	Il6st	Insr	Irf1	Irf9	Isig15	Jak1
D	Jak2	Jak3	Jun	Junb	Lrg1	Mcl1	Mpl	Myc	Nfkb1	Nos2	Nr3c1	Oas1a
E	Osm	Pdgfra	Pias1	Pias2	Prl	Prlr	Ptpn1	Ptpn11	Ptpnc	Spi1	Sh2b1	Sh2b2
F	Smad1	Smad2	Smad3	Smad4	Smad5	Socs1	Socs2	Socs3	Socs4	Socs5	Sp1	Src
G	Stat1	Stat1	Stat2	Stat3	Stat4	Stat5a	Stat5b	Stat6	Stat6	Tyk2	Uf1	Yy1
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	SBM1038708	ENSMUST00000032203.8	A2m	ENSMUSG0000030111	alpha-2-macroglobulin Source MGI Symbol Acc MGI 2449119
A02	SBM1020452	ENSMUST00000144550.8	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A03	SBM0751583	ENSMUST00000134357.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
A04	SBM0706150	ENSMUST00000093962.4	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A05	SBM1034022	ENSMUST00000023829.7	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
A06	SBM0682459	ENSMUST00000070642.3	Cebpb	ENSMUSG0000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
A07	SBM0962498	ENSMUST00000096232.5	Cebpd	ENSMUSG0000071637	CCAAT/enhancer binding protein (C/EBP), delta Source MGI Symbol Acc MGI 103573
A08	SBM0856740	ENSMUST00000108425.7	Crk	ENSMUSG0000017776	v-crk avian sarcoma virus CT10 oncogene homolog Source MGI Symbol Acc MGI 88508
A09	SBM0905444	ENSMUST00000194251.1	Crp	ENSMUSG0000037942	C-reactive protein, pentraxin-related Source MGI Symbol Acc MGI 88512
A10	SBM0818557	ENSMUST00000025523.12	Csf1r	ENSMUSG0000024621	colony stimulating factor 1 receptor Source MGI Symbol Acc MGI 1339758
A11	SBM0993686	ENSMUST00000113093.4	Cxcl9	ENSMUSG0000029417	chemokine (C-X-C motif) ligand 9 Source MGI Symbol Acc MGI 1352449
A12	SBM1033270	ENSMUST00000020329.12	Egfr	ENSMUSG0000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
B01	SBM1015360	ENSMUST00000213181.1	Epor	ENSMUSG0000006235	erythropoietin receptor Source MGI Symbol Acc MGI 95408
B02	SBM0895867	ENSMUST00000028681.14	F2	ENSMUSG00000027249	coagulation factor II Source MGI Symbol Acc MGI 88380
B03	SBM0856649	ENSMUST00000112472.3	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
B04	SBM0844408	ENSMUST00000005678.5	Fcgr2a	ENSMUSG0000005540	Fc receptor, IgE, low affinity II, alpha polypeptide Source MGI Symbol Acc MGI 95497
B05	SBM0845170	ENSMUST00000029748.7	Fcgr1	ENSMUSG0000015947	Fc receptor, IgG, high affinity I Source MGI Symbol Acc MGI 95498
B06	SBM0782281	ENSMUST00000147533.1	Gata3	ENSMUSG0000015619	GATA binding protein 3 Source MGI Symbol Acc MGI 95663
B07	SBM0826022	ENSMUST00000029936.4	Gbp2b	ENSMUSG0000040264	guanylate binding protein 2b Source MGI Symbol Acc MGI 95666
B08	SBM0700841	ENSMUST00000110697.8	Ghr	ENSMUSG0000055737	growth hormone receptor Source MGI Symbol Acc MGI 95708
B09	SBM1048996	ENSMUST00000129878.1	Ifnar1	ENSMUSG0000022967	interferon (alpha and beta) receptor 1 Source MGI Symbol Acc MGI 107658
B10	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
B11	SBM0816124	ENSMUST00000110989.2	Ifngr1	ENSMUSG0000020009	interferon gamma receptor 1 Source MGI Symbol Acc MGI 107655
B12	SBM0888395	ENSMUST00000176808.1	Il10ra	ENSMUSG0000032089	interleukin 10 receptor, alpha Source MGI Symbol Acc MGI 96538
C01	SBM0883363	ENSMUST00000156133.7	Il10rb	ENSMUSG0000022969	interleukin 10 receptor, beta Source MGI Symbol Acc MGI 109380
C02	SBM0805691	ENSMUST00000188581.1	Il20	ENSMUSG0000026416	interleukin 20 Source MGI Symbol Acc MGI 1890473
C03	SBM1067326	ENSMUST00000028111.5	Il2ra	ENSMUSG0000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
C04	SBM0793634	ENSMUST00000127538.1	Il2rg	ENSMUSG0000031304	interleukin 2 receptor, gamma chain Source MGI Symbol Acc MGI 96551
C05	SBM0926369	ENSMUST00000150568.7	Il4	ENSMUSG0000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
C06	SBM0691649	ENSMUST00000206681.1	Il4ra	ENSMUSG0000030748	interleukin 4 receptor, alpha Source MGI Symbol Acc MGI 105367
C07	SBM0823451	ENSMUST00000183829.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
C08	SBM1013137	ENSMUST00000207100.1	Insr	ENSMUSG0000005534	insulin receptor Source MGI Symbol Acc MGI 96575
C09	SBM1091850	ENSMUST00000138913.7	Irf1	ENSMUSG0000018899	interferon regulatory factor 1 Source MGI Symbol Acc MGI 96590
C10	SBM0930247	ENSMUST00000134863.7	Irf9	ENSMUSG0000002325	interferon regulatory factor 9 Source MGI Symbol Acc MGI 107587
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1019263	085425.4	lsg15	000035692	ISG15 ubiquitin-like modifier Source MGI Symbol Acc MGI 1855694
C12	SBM0792684	ENSMUST00000155328.7	Jak1	ENSMUSG0000028530	Janus kinase 1 Source MGI Symbol Acc MGI 96628
D01	SBM0844988	ENSMUST00000065796.9	Jak2	ENSMUSG0000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
D02	SBM0924872	ENSMUST00000051995.13	Jak3	ENSMUSG00000031805	Janus kinase 3 Source MGI Symbol Acc MGI 99928
D03	SBM1045409	ENSMUST00000107094.1	Jun	ENSMUSG00000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D04	SBM0879318	ENSMUST00000064922.6	Junb	ENSMUSG00000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
D05	SBM1035605	ENSMUST00000041357.8	Lrg1	ENSMUSG00000037095	leucine-rich alpha-2-glycoprotein 1 Source MGI Symbol Acc MGI 1924155
D06	SBM0701175	ENSMUST00000178686.1	Mcl1	ENSMUSG00000038612	myeloid cell leukemia sequence 1 Source MGI Symbol Acc MGI 101769
D07	SBM1050157	ENSMUST00000106375.1	Mpl	ENSMUSG0000006389	myeloproliferative leukemia virus oncogene Source MGI Symbol Acc MGI 97076
D08	SBM0987162	ENSMUST00000159338.1	Myc	ENSMUSG00000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
D09	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG00000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
D10	SBM0835086	ENSMUST00000208783.1	Nos2	ENSMUSG00000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
D11	SBM0963014	ENSMUST00000115571.7	Nr3c1	ENSMUSG00000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
D12	SBM1049469	ENSMUST00000080322.7	Oas1a	ENSMUSG00000052776	2'-5' oligoadenylate synthetase 1A Source MGI Symbol Acc MGI 2180860
E01	SBM0824436	ENSMUST00000131764.1	Osm	ENSMUSG00000058755	oncostatin M Source MGI Symbol Acc MGI 104749
E02	SBM0852876	ENSMUST00000168162.4	Pdgfra	ENSMUSG00000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
E03	SBM0917145	ENSMUST00000215455.1	Pias1	ENSMUSG00000032405	protein inhibitor of activated STAT 1 Source MGI Symbol Acc MGI 1913125
E04	SBM0874411	ENSMUST00000168882.8	Pias2	ENSMUSG00000025423	protein inhibitor of activated STAT 2 Source MGI Symbol Acc MGI 1096566
E05	SBM0899700	ENSMUST00000110369.9	Prl	ENSMUSG00000021342	prolactin Source MGI Symbol Acc MGI 97762
E06	SBM0887632	ENSMUST00000138135.7	Prlr	ENSMUSG0000005268	prolactin receptor Source MGI Symbol Acc MGI 97763
E07	SBM0939941	ENSMUST00000142717.1	Ptfn1	ENSMUSG00000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805
E08	SBM0903021	ENSMUST00000148871.1	Ptfn11	ENSMUSG00000043733	protein tyrosine phosphatase, non-receptor type 11 Source MGI Symbol Acc MGI 99511
E09	SBM0851018	ENSMUST00000183229.2	Ptprc	ENSMUSG00000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
E10	SBM0944485	ENSMUST00000169852.1	Spi1	ENSMUSG0000002111	spleen focus forming virus (SFFV) proviral integration oncogene Source MGI Symbol Acc MGI 98282
E11	SBM0792537	ENSMUST00000032978.7	Sh2b1	ENSMUSG00000030733	SH2B adaptor protein 1 Source MGI Symbol Acc MGI 1201407
E12	SBM0767589	ENSMUST00000196397.4	Sh2b2	ENSMUSG0000005057	SH2B adaptor protein 2 Source MGI Symbol Acc MGI 1345171
F01	SBM0887383	ENSMUST00000109885.7	Smad1	ENSMUSG00000031681	SMAD family member 1 Source MGI Symbol Acc MGI 109452
F02	SBM1009250	ENSMUST00000165084.7	Smad2	ENSMUSG00000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F03	SBM1002783	ENSMUST00000034973.9	Smad3	ENSMUSG00000032402	SMAD family member 3 Source MGI Symbol Acc MGI 1201674
F04	SBM1071100	ENSMUST00000114939.1	Smad4	ENSMUSG00000024515	SMAD family member 4 Source MGI Symbol Acc MGI 894293
F05	SBM0732806	ENSMUST00000109876.7	Smad5	ENSMUSG00000021540	SMAD family member 5 Source MGI Symbol Acc MGI 1328787
F06	SBM0830785	ENSMUST00000229866.1	Socs1	ENSMUSG00000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910
F07	SBM0696889	ENSMUST00000155148.1	Socs2	ENSMUSG00000020027	suppressor of cytokine signaling 2 Source MGI Symbol Acc MGI 1201787
F08	SBM0977814	ENSMUST00000054002.3	Socs3	ENSMUSG00000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
F09	SBM0916387	ENSMUST00000227413.1	Socs4	ENSMUSG00000048379	suppressor of cytokine signaling 4 Source MGI Symbol Acc MGI 1914546
F10	SBM0834297	ENSMUST00000041369.7	Socs5	ENSMUSG00000037104	suppressor of cytokine signaling 5 Source MGI Symbol Acc MGI 2385459

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0682351	ENSMUST00000169619.1	Sp1	ENSMUSG0000001280	trans-acting transcription factor 1 Source MGI Symbol Acc MGI 98372
F12	SBM1051097	ENSMUST00000029175.13	Src	ENSMUSG0000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G01	SBM0720832	ENSMUST00000028050.13	Stam	ENSMUSG0000026718	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1 Source MGI Symbol Acc MGI 1329014
G02	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG0000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G03	SBM0896602	ENSMUST00000085708.2	Stat2	ENSMUSG0000040033	signal transducer and activator of transcription 2 Source MGI Symbol Acc MGI 103039
G04	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G05	SBM0758089	ENSMUST00000187554.1	Stat4	ENSMUSG0000062939	signal transducer and activator of transcription 4 Source MGI Symbol Acc MGI 103062
G06	SBM0789938	ENSMUST00000138083.7	Stat5a	ENSMUSG0000004043	signal transducer and activator of transcription 5A Source MGI Symbol Acc MGI 103036
G07	SBM0792638	ENSMUST00000126266.1	Stat5b	ENSMUSG0000020919	signal transducer and activator of transcription 5B Source MGI Symbol Acc MGI 103035
G08	SBM0912507	ENSMUST00000156231.1	Stat6	ENSMUSG0000002147	signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034
G09	SBM1072530	ENSMUST00000236361.1	Stub1	ENSMUSG0000039615	STIP1 homology and U-Box containing protein 1 Source MGI Symbol Acc MGI 1891731
G10	SBM0927410	ENSMUST00000214454.1	Tyk2	ENSMUSG0000032175	tyrosine kinase 2 Source MGI Symbol Acc MGI 1929470
G11	SBM1090331	ENSMUST00000161297.7	Usf1	ENSMUSG0000026641	upstream transcription factor 1 Source MGI Symbol Acc MGI 99542
G12	SBM0955085	ENSMUST00000126912.1	Yy1	ENSMUSG0000021264	YY1 transcription factor Source MGI Symbol Acc MGI 99150
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 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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