

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

Mouse Multiple Sclerosis

Cat. no. 249950 SBMM-125ZR

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	Adm	Akt1s1	Apc	App	Aspa	Bax	Bcl2	Bcl2l1	C1s1	Ccl12	Ccl3	Ccl5
B	Ccl7	Ccr1	Ccr5	Cd28	Cd4	Cd40	Cd44	Cd9	Csf1	Cxcl10	Cxcl11	Cxcl9
C	Cxcr3	Edc4	Ednra	Egr1	Epha1	ErbB3	Ezr	Fasf	Fn1	Foxp3	Gfap	Gna12
D	Gpx1	Grb2	H2-Eb1	Hdac1	Hexb	Hif1a	Icam1	Ifng	Il10	Il13	Il18	Il1b
E	Il2ra	Il6	Il6st	Ilgb2	Jak1	Jak2	Jun	Lta	Mag	Mal	Map2k1	Mapk1
F	Mbp	Mmp9	Myc	Nfkb1	Nr2f1	Nrf3	Phgdh	Plp1	Pmp22	Ptpn11	Raf1	Rangap1
G	Sod1	Stat3	Tgfb1	Tgfb2	Tnf	Tnfrsf1a	Tnfrsf1b	Top1	Tubb4a	Vcam1	Vegfa	Ywhah
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	SBM0999945	ENSMUST00000185766.1	Adm	ENSMUSG0000030790	adrenomedullin Source MGI Symbol Acc MGI 108058
A02	SBM0871889	ENSMUST00000152091.7	Akt1s1	ENSMUSG0000011096	AKT1 substrate 1 (proline-rich) Source MGI Symbol Acc MGI 1914855
A03	SBM0782035	ENSMUST00000079362.12	Apc	ENSMUSG0000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A04	SBM0970132	ENSMUST00000226801.1	App	ENSMUSG0000022892	amyloid beta (A4) precursor protein Source MGI Symbol Acc MGI 88059
A05	SBM0985746	ENSMUST00000184572.7	Aspa	ENSMUSG0000020774	aspartoacylase Source MGI Symbol Acc MGI 87914
A06	SBM0740166	ENSMUST00000211615.1	Bax	ENSMUSG0000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A07	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG00000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A08	SBM0751583	ENSMUST00000134357.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
A09	SBM0756115	ENSMUST00000159143.1	C1s1	ENSMUSG0000038521	complement component 1, s subcomponent 1 Source MGI Symbol Acc MGI 1355312
A10	SBM0687223	ENSMUST00000000194.3	Ccl12	ENSMUSG0000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A11	SBM0794563	ENSMUST00000001008.5	Ccl3	ENSMUSG0000000982	chemokine (C-C motif) ligand 3 Source MGI Symbol Acc MGI 98260
A12	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG0000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
B01	SBM0998844	ENSMUST00000021011.2	Ccl7	ENSMUSG0000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
B02	SBM1015405	ENSMUST00000026911.5	Ccr1	ENSMUSG0000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
B03	SBM0964476	ENSMUST00000111442.2	Ccr5	ENSMUSG0000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
B04	SBM0735565	ENSMUST00000027165.2	Cd28	ENSMUSG0000026012	CD28 antigen Source MGI Symbol Acc MGI 88327
B05	SBM1064445	ENSMUST00000024044.6	Cd4	ENSMUSG0000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B06	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B07	SBM0860996	ENSMUST00000111194.7	Cd44	ENSMUSG0000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
B08	SBM0744066	ENSMUST00000032492.8	Cd9	ENSMUSG0000030342	CD9 antigen Source MGI Symbol Acc MGI 88348
B09	SBM0903322	ENSMUST00000155557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B10	SBM0996179	ENSMUST00000118006.2	Cxcl10	ENSMUSG0000034855	chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450
B11	SBM0710486	ENSMUST00000122808.1	Cxcl11	ENSMUSG0000060183	chemokine (C-X-C motif) ligand 11 Source MGI Symbol Acc MGI 1860203
B12	SBM0993686	ENSMUST00000113093.4	Cxcl9	ENSMUSG0000029417	chemokine (C-X-C motif) ligand 9 Source MGI Symbol Acc MGI 1352449
C01	SBM0682187	ENSMUST00000056614.6	Cxcr3	ENSMUSG0000050232	chemokine (C-X-C motif) receptor 3 Source MGI Symbol Acc MGI 1277207
C02	SBM0722202	ENSMUST00000040254.15	Edc4	ENSMUSG0000036270	enhancer of mRNA decapping 4 Source MGI Symbol Acc MGI 2446249
C03	SBM0725285	ENSMUST00000034029.7	Ednra	ENSMUSG0000031616	endothelin receptor type A Source MGI Symbol Acc MGI 105923
C04	SBM0782056	ENSMUST00000064795.5	Egr1	ENSMUSG0000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
C05	SBM0690476	ENSMUST00000204357.1	Epha1	ENSMUSG0000029859	Eph receptor A1 Source MGI Symbol Acc MGI 107381
C06	SBM0776546	ENSMUST00000082059.6	ErbB3	ENSMUSG0000018166	erb-b2 receptor tyrosine kinase 3 Source MGI Symbol Acc MGI 95411
C07	SBM0980731	ENSMUST00000064234.6	Ezr	ENSMUSG0000052397	ezrin Source MGI Symbol Acc MGI 98931
C08	SBM0967876	ENSMUST00000000834.3	FasL	ENSMUSG0000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
C09	SBM0934692	ENSMUST00000185408.6	Fn1	ENSMUSG0000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C10	SBM0951877	ENSMUST00000234479.1	Foxp3	ENSMUSG0000039521	forkhead box P3 Source MGI Symbol Acc MGI 1891436
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1028741	127909.1	Gfap	000020932	glial fibrillary acidic protein Source MGI Symbol Acc MGI 95697
C12	SBM0751034	ENSMUST00000192615.5	Gnai2	ENSMUSG0000032562	guanine nucleotide binding protein (G protein), alpha inhibiting 2 Source MGI Symbol Acc MGI 95772
D01	SBM0858533	ENSMUST00000082429.6	Gpx1	ENSMUSG0000063856	glutathione peroxidase 1 Source MGI Symbol Acc MGI 104887
D02	SBM1054562	ENSMUST00000106497.7	Grb2	ENSMUSG0000059923	growth factor receptor bound protein 2 Source MGI Symbol Acc MGI 95805
D03	SBM0825899	ENSMUST00000235530.1	H2-Eb1	ENSMUSG0000060586	histocompatibility 2, class II antigen E beta Source MGI Symbol Acc MGI 95901
D04	SBM0727728	ENSMUST00000132909.1	Hdac1	ENSMUSG0000028800	histone deacetylase 1 Source MGI Symbol Acc MGI 108086
D05	SBM0943766	ENSMUST00000222700.1	Hexb	ENSMUSG0000021665	hexosaminidase B Source MGI Symbol Acc MGI 96074
D06	SBM1003614	ENSMUST00000110464.7	Hif1a	ENSMUSG0000021109	hypoxia inducible factor 1, alpha subunit Source MGI Symbol Acc MGI 106918
D07	SBM0806584	ENSMUST00000215003.1	Icam1	ENSMUSG0000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
D08	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D09	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D10	SBM0860496	ENSMUST00000020650.1	Il13	ENSMUSG0000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
D11	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG0000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
D12	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
E01	SBM1067326	ENSMUST00000028111.5	Il2ra	ENSMUSG0000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
E02	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
E03	SBM0823451	ENSMUST00000183829.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
E04	SBM0947975	ENSMUST00000131023.7	Itgb2	ENSMUSG0000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
E05	SBM0792684	ENSMUST00000155328.7	Jak1	ENSMUSG0000028530	Janus kinase 1 Source MGI Symbol Acc MGI 96628
E06	SBM0844988	ENSMUST00000065796.9	Jak2	ENSMUSG0000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
E07	SBM1045409	ENSMUST00000107094.1	Jun	ENSMUSG0000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
E08	SBM0790437	ENSMUST00000025266.5	Lta	ENSMUSG0000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797
E09	SBM0954134	ENSMUST00000188569.6	Mag	ENSMUSG0000036634	myelin-associated glycoprotein Source MGI Symbol Acc MGI 96912
E10	SBM0976497	ENSMUST00000028853.6	Mal	ENSMUSG0000027375	myelin and lymphocyte protein, T cell differentiation protein Source MGI Symbol Acc MGI 892970
E11	SBM1025120	ENSMUST00000005066.8	Map2k1	ENSMUSG0000004936	mitogen-activated protein kinase kinase 1 Source MGI Symbol Acc MGI 1346866
E12	SBM0800614	ENSMUST00000231821.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
F01	SBM0782483	ENSMUST00000080658.11	Mbp	ENSMUSG0000041607	myelin basic protein Source MGI Symbol Acc MGI 96925
F02	SBM1089430	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
F03	SBM0987162	ENSMUST00000159338.1	Myc	ENSMUSG0000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
F04	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
F05	SBM0964400	ENSMUST00000150498.7	Nr2f1	ENSMUSG0000069171	nuclear receptor subfamily 2, group F, member 1 Source MGI Symbol Acc MGI 1352451
F06	SBM0855486	ENSMUST00000204542.2	Ntf3	ENSMUSG0000049107	neurotrophin 3 Source MGI Symbol Acc MGI 97380
F07	SBM0830263	ENSMUST00000153694.7	Phgdh	ENSMUSG0000053398	3-phosphoglycerate dehydrogenase Source MGI Symbol Acc MGI 1355330
F08	SBM0865182	ENSMUST00000144880.1	Plp1	ENSMUSG0000031425	proteolipid protein (myelin) 1 Source MGI Symbol Acc MGI 97623
F09	SBM0727313	ENSMUST00000140648.1	Pmp22	ENSMUSG0000018217	peripheral myelin protein 22 Source MGI Symbol Acc MGI 97631
F10	SBM0903021	ENSMUST00000148871.1	Ptpn11	ENSMUSG0000043733	protein tyrosine phosphatase, non-receptor type 11 Source MGI Symbol Acc MGI 99511

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0974573	ENSMUST00000124553.3	Raf1	ENSMUSG0000000441	v-raf-leukemia viral oncogene 1 Source MGI Symbol Acc MGI 97847
F12	SBM0942271	ENSMUST00000052374.12	Rangap1	ENSMUSG0000022391	RAN GTPase activating protein 1 Source MGI Symbol Acc MGI 103071
G01	SBM0946306	ENSMUST00000023707.10	Sod1	ENSMUSG0000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
G02	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G03	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G04	SBM0955433	ENSMUST00000194960.1	Tgfb2	ENSMUSG0000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
G05	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G06	SBM0837100	ENSMUST00000134803.1	Tnfrsf1a	ENSMUSG0000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
G07	SBM0979488	ENSMUST00000143055.1	Tnfrsf1b	ENSMUSG0000028599	tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883
G08	SBM0775245	ENSMUST00000150039.1	Top1	ENSMUSG0000070544	topoisomerase (DNA) I Source MGI Symbol Acc MGI 98788
G09	SBM0822809	ENSMUST00000071135.5	Tubb4a	ENSMUSG0000062591	tubulin, beta 4A class IVA Source MGI Symbol Acc MGI 107848
G10	SBM1225402	ENSMUST00000029574.12	Vcam1	ENSMUSG0000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G11	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	SBM0740069	ENSMUST00000019109.7	Ywhah	ENSMUSG0000018965	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide Source MGI Symbol Acc MGI 109194
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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