

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

Mouse Fibrosis

Cat. no. 249950 SBMM-120ZR

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	Acta2	Agt	Akt1	Bcl2	Bmp7	Cav1	Ccl11	Ccl12	Ccl3	Ccr2	Cebpb	Col1a2
B	Col3a1	Con2	Cxcr4	Dcn	Edn1	Egf	Eng	Fasf	Grem1	Hgf	Ifng	Il10
C	Il13	Il13ra2	Il1a	Il1b	Il4	Il5	Ilk	Inhbe	Itga1	Itga2	Itga3	Itgav
D	Itgb1	Itgb3	Itgb5	Itgb6	Itgb8	Jun	Lox	Ltbp1	Mmp13	Mmp14	Mmp1a	Mmp2
E	Mmp3	Mmp8	Mmp9	Myc	Nfkb1	Pdgfa	Pdgfb	Plat	Pla2	Plg	Serpina1a	Serpine1
F	Serpinh1	Smad2	Smad3	Smad4	Smad6	Smad7	Snai1	Sp1	Stat1	Stat6	Tgfb1	Tgfb2
G	Tgfb3	Tgfb1	Tgfb2	Tgfb1	Thbs1	Thbs2	Timp1	Timp2	Timp3	Timp4	Tnf	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	SBM0729572	ENSMUST00000238147.1	Acta2	ENSMUSG0000035783	actin, alpha 2, smooth muscle, aorta Source MGI Symbol Acc MGI 87909
A02	SBM0838798	ENSMUST00000063278.6	Agt	ENSMUSG00000031980	angiotensinogen (serpin peptidase inhibitor, clade A, member 8) Source MGI Symbol Acc MGI 87963
A03	SBM1020452	ENSMUST00000144550.8	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A04	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG00000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A05	SBM1004016	ENSMUST00000137247.1	Bmp7	ENSMUSG0000008999	bone morphogenetic protein 7 Source MGI Symbol Acc MGI 103302
A06	SBM0727943	ENSMUST00000115454.1	Cav1	ENSMUSG0000007655	caveolin 1, caveolae protein Source MGI Symbol Acc MGI 102709
A07	SBM0757192	ENSMUST00000000342.2	Ccl11	ENSMUSG00000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
A08	SBM0687223	ENSMUST00000000194.3	Ccl12	ENSMUSG00000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A09	SBM0794563	ENSMUST00000001008.5	Ccl3	ENSMUSG00000000982	chemokine (C-C motif) ligand 3 Source MGI Symbol Acc MGI 98260
A10	SBM0796638	ENSMUST00000168841.2	Ccr2	ENSMUSG00000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
A11	SBM0682459	ENSMUST00000070642.3	Cebpb	ENSMUSG00000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
A12	SBM0673080	ENSMUST00000132029.1	Col1a2	ENSMUSG00000029661	collagen, type I, alpha 2 Source MGI Symbol Acc MGI 88468
B01	SBM0704935	ENSMUST00000129611.1	Col3a1	ENSMUSG00000026043	collagen, type III, alpha 1 Source MGI Symbol Acc MGI 88453
B02	SBM0718058	ENSMUST00000176228.1	Ccn2	ENSMUSG00000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
B03	SBM0923037	ENSMUST00000052172.6	Cxcr4	ENSMUSG00000045382	chemokine (C-X-C motif) receptor 4 Source MGI Symbol Acc MGI 109563
B04	SBM0910615	ENSMUST00000219539.1	Dcn	ENSMUSG00000019929	decorin Source MGI Symbol Acc MGI 94872
B05	SBM0992224	ENSMUST00000021796.8	Edn1	ENSMUSG00000021367	endothelin 1 Source MGI Symbol Acc MGI 95283
B06	SBM1005237	ENSMUST00000197079.4	Egf	ENSMUSG00000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
B07	SBM0877670	ENSMUST00000156306.1	Eng	ENSMUSG00000026814	endoglin Source MGI Symbol Acc MGI 95392
B08	SBM0967876	ENSMUST00000000834.3	FasL	ENSMUSG00000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
B09	SBM0680205	ENSMUST00000099575.3	Grem1	ENSMUSG00000074934	gremlin 1, DAN family BMP antagonist Source MGI Symbol Acc MGI 1344337
B10	SBM0858725	ENSMUST00000200189.4	Hgf	ENSMUSG00000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
B11	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG00000055170	interferon gamma Source MGI Symbol Acc MGI 107656
B12	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG00000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
C01	SBM0860496	ENSMUST00000020650.1	Il13	ENSMUSG00000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
C02	SBM1040614	ENSMUST00000033646.8	Il13ra2	ENSMUSG00000031289	interleukin 13 receptor, alpha 2 Source MGI Symbol Acc MGI 1277954
C03	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG00000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
C04	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG00000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
C05	SBM0926369	ENSMUST00000150568.7	Il4	ENSMUSG00000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
C06	SBM1034588	ENSMUST00000048605.2	Il5	ENSMUSG00000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
C07	SBM0904671	ENSMUST00000033182.9	Ilk	ENSMUSG00000030890	integrin linked kinase Source MGI Symbol Acc MGI 1195267
C08	SBM0756206	ENSMUST00000059718.5	Inhbe	ENSMUSG00000047492	inhibin beta-E Source MGI Symbol Acc MGI 109269
C09	SBM0802692	ENSMUST00000061673.8	Itga1	ENSMUSG00000042284	integrin alpha 1 Source MGI Symbol Acc MGI 96599
C10	SBM1002416	ENSMUST00000056117.9	Itga2	ENSMUSG00000015533	integrin alpha 2 Source MGI Symbol Acc MGI 96600
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0845438	140342.1	Itga3	000001507	integrin alpha 3 Source MGI Symbol Acc MGI 96602
C12	SBM0710817	ENSMUST00000151463.1	Itgav	ENSMUSG0000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
D01	SBM0691612	ENSMUST00000090006.11	Itgb1	ENSMUSG0000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
D02	SBM0851696	ENSMUST00000127140.2	Itgb3	ENSMUSG0000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
D03	SBM0961760	ENSMUST00000069345.5	Itgb5	ENSMUSG0000022817	integrin beta 5 Source MGI Symbol Acc MGI 96614
D04	SBM0767121	ENSMUST00000151035.7	Itgb6	ENSMUSG0000026971	integrin beta 6 Source MGI Symbol Acc MGI 96615
D05	SBM0680551	ENSMUST00000026360.8	Itgb8	ENSMUSG0000025321	integrin beta 8 Source MGI Symbol Acc MGI 1338035
D06	SBM1045409	ENSMUST00000107094.1	Jun	ENSMUSG0000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D07	SBM0925223	ENSMUST00000025409.8	Lox	ENSMUSG0000024529	lysyl oxidase Source MGI Symbol Acc MGI 96817
D08	SBM0712423	ENSMUST00000112514.1	Ltbp1	ENSMUSG0000001870	latent transforming growth factor beta binding protein 1 Source MGI Symbol Acc MGI 109151
D09	SBM0784073	ENSMUST00000015394.9	Mmp13	ENSMUSG0000050578	matrix metalloproteinase 13 Source MGI Symbol Acc MGI 1340026
D10	SBM0735844	ENSMUST00000197947.1	Mmp14	ENSMUSG0000000957	matrix metalloproteinase 14 (membrane-inserted) Source MGI Symbol Acc MGI 101900
D11	SBM0888476	ENSMUST00000034492.5	Mmp1a	ENSMUSG0000043089	matrix metalloproteinase 1a (interstitial collagenase) Source MGI Symbol Acc MGI 1933846
D12	SBM0690200	ENSMUST00000034187.8	Mmp2	ENSMUSG0000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E01	SBM1025609	ENSMUST00000034497.7	Mmp3	ENSMUSG0000043613	matrix metalloproteinase 3 Source MGI Symbol Acc MGI 97010
E02	SBM0782006	ENSMUST00000018765.3	Mmp8	ENSMUSG0000005800	matrix metalloproteinase 8 Source MGI Symbol Acc MGI 1202395
E03	SBM1089430	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E04	SBM0987162	ENSMUST00000159338.1	Myc	ENSMUSG0000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
E05	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E06	SBM0932962	ENSMUST00000124080.7	Pdgfa	ENSMUSG0000025856	platelet derived growth factor, alpha Source MGI Symbol Acc MGI 97527
E07	SBM0947438	ENSMUST00000000500.7	Pdgfb	ENSMUSG0000000489	platelet derived growth factor, B polypeptide Source MGI Symbol Acc MGI 97528
E08	SBM0722468	ENSMUST00000033941.6	Plat	ENSMUSG0000031538	plasminogen activator, tissue Source MGI Symbol Acc MGI 97610
E09	SBM0733272	ENSMUST00000224141.1	Plau	ENSMUSG0000021822	plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611
E10	SBM0836626	ENSMUST00000014578.6	Plg	ENSMUSG0000059481	plasminogen Source MGI Symbol Acc MGI 97620
E11	SBM0813233	ENSMUST00000085056.7	Serpina1a	ENSMUSG0000066366	serine (or cysteine) peptidase inhibitor, clade A, member 1A Source MGI Symbol Acc MGI 891971
E12	SBM0809699	ENSMUST00000041388.10	Serpine1	ENSMUSG0000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
F01	SBM0790738	ENSMUST00000169437.8	Serpinh1	ENSMUSG0000070436	serine (or cysteine) peptidase inhibitor, clade H, member 1 Source MGI Symbol Acc MGI 88283
F02	SBM1009250	ENSMUST00000165084.7	Smad2	ENSMUSG0000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F03	SBM1002783	ENSMUST00000034973.9	Smad3	ENSMUSG0000032402	SMAD family member 3 Source MGI Symbol Acc MGI 1201674
F04	SBM1071100	ENSMUST00000114939.1	Smad4	ENSMUSG0000024515	SMAD family member 4 Source MGI Symbol Acc MGI 894293
F05	SBM0734783	ENSMUST00000144323.2	Smad6	ENSMUSG0000036867	SMAD family member 6 Source MGI Symbol Acc MGI 1336883
F06	SBM0862681	ENSMUST00000168918.7	Smad7	ENSMUSG0000025880	SMAD family member 7 Source MGI Symbol Acc MGI 1100518
F07	SBM0756361	ENSMUST00000052631.7	Snai1	ENSMUSG0000042821	snail family zinc finger 1 Source MGI Symbol Acc MGI 98330
F08	SBM0682351	ENSMUST00000169619.1	Sp1	ENSMUSG0000001280	trans-acting transcription factor 1 Source MGI Symbol Acc MGI 98372
F09	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG0000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
F10	SBM0912507	ENSMUST00000156231.1	Stat6	ENSMUSG0000002147	signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
F12	SBM0955433	ENSMUST00000194960.1	Tgfb2	ENSMUSG00000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
G01	SBM1022458	ENSMUST00000003687.7	Tgfb3	ENSMUSG00000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G02	SBM0973351	ENSMUST00000044234.13	Tgfb1	ENSMUSG0000007613	transforming growth factor, beta receptor I Source MGI Symbol Acc MGI 98728
G03	SBM0784825	ENSMUST00000035014.7	Tgfb2	ENSMUSG00000032440	transforming growth factor, beta receptor II Source MGI Symbol Acc MGI 98729
G04	SBM0754223	ENSMUST00000186358.5	Tgif1	ENSMUSG00000047407	TGFB-induced factor homeobox 1 Source MGI Symbol Acc MGI 1194497
G05	SBM0895247	ENSMUST00000142588.1	Thbs1	ENSMUSG00000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G06	SBM0822435	ENSMUST00000170872.2	Thbs2	ENSMUSG00000023885	thrombospondin 2 Source MGI Symbol Acc MGI 98738
G07	SBM0839007	ENSMUST00000115342.9	Timp1	ENSMUSG00000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G08	SBM0732357	ENSMUST00000155707.2	Timp2	ENSMUSG00000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G09	SBM1025772	ENSMUST00000132307.1	Timp3	ENSMUSG00000020044	tissue inhibitor of metalloproteinase 3 Source MGI Symbol Acc MGI 98754
G10	SBM1077931	ENSMUST00000032462.8	Timp4	ENSMUSG00000030317	tissue inhibitor of metalloproteinase 4 Source MGI Symbol Acc MGI 109125
G11	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G12	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
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 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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