

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

Mouse Endothelial Cell Biology

Cat. no. 249950 SBMM-015ZR

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	Ace	Adam17	Agt	Agtr1a	Angpt1	Anxa5	Apoe	Bax	Bcl2	Bcl2l1	Casp1	Casp3
B	Cav1	Ccd2	Ccl5	Cdh5	Cflar	Col18a1	Cradd	Cx3cl1	Cxcl1	Cxcl2	Cxcr5	Edn1
C	Edn2	Ednra	Eng	F2r1	F3	Fas	Fasl	Fgf1	Fgf2	Fit1	Fn1	
D	Hif1a	Icam1	Il11	Il1b	Il3	Il6	Il7	Itga5	Itgav	Itgb1	Itgb3	Kdr
E	Kit	Mmp1a	Mmp2	Mmp9	Nos3	Nppb	Npr1	Ocn	Pdgfra	Pecam1	Pf4	Pgf
F	Plat	Pflau	Pig	Procr	Ptgis	Ptgis2	Sele	Sell	Selp	Selplg	Serpine1	Sod1
G	Tek	Tfpi	Tgfb1	Thbd	Thbs1	Timpl	Tnf	Tnfsf10	Tymp	Vcam1	Vegfa	Vwf
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	Q1C	Q1C	PPC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0904655	ENSMUST00000 151657.1	Ace	ENSMUSG00 000020681	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 Source MGI Symbol Acc MGI 87874
A02	SBM1051971	ENSMUST00000 142092.1	Adam17	ENSMUSG00 000052593	a disintegrin and metalloproteinase domain 17 Source MGI Symbol Acc MGI 1096335
A03	SBM0838798	ENSMUST00000 063278.6	Agt	ENSMUSG00 000031980	angiotensinogen (serpin peptidase inhibitor, clade A, member 8) Source MGI Symbol Acc MGI 87963
A04	SBM0991724	ENSMUST00000 222503.1	Agtr1a	ENSMUSG00 000049115	angiotensin II receptor, type 1a Source MGI Symbol Acc MGI 87964
A05	SBM0848818	ENSMUST00000 022921.6	Angpt1	ENSMUSG00 000022309	angiopoietin 1 Source MGI Symbol Acc MGI 108448
A06	SBM1073515	ENSMUST00000 199478.1	Anxa5	ENSMUSG00 000027712	annexin A5 Source MGI Symbol Acc MGI 106008
A07	SBM0912771	ENSMUST00000 173739.7	Apoe	ENSMUSG00 000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
A08	SBM0740166	ENSMUST00000 211615.1	Bax	ENSMUSG00 000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A09	SBM0876340	ENSMUST00000 189999.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A10	SBM0751583	ENSMUST00000 134357.1	Bcl2l1	ENSMUSG00 000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
A11	SBM0862549	ENSMUST00000 027015.5	Casp1	ENSMUSG00 000025888	caspase 1 Source MGI Symbol Acc MGI 96544
A12	SBM0732165	ENSMUST00000 093517.6	Casp3	ENSMUSG00 000031628	caspase 3 Source MGI Symbol Acc MGI 107739
B01	SBM0727943	ENSMUST00000 115454.1	Cav1	ENSMUSG00 000007655	caveolin 1, caveolae protein Source MGI Symbol Acc MGI 102709
B02	SBM0836747	ENSMUST00000 000193.5	Ccl2	ENSMUSG00 000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
B03	SBM0703029	ENSMUST00000 125015.1	Ccl5	ENSMUSG00 000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
B04	SBM0916537	ENSMUST00000 034339.9	Cdh5	ENSMUSG00 000031871	cadherin 5 Source MGI Symbol Acc MGI 105057
B05	SBM0727764	ENSMUST00000 124567.1	Cflar	ENSMUSG00 000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
B06	SBM0820945	ENSMUST00000 156009.1	Col18a1	ENSMUSG00 000001435	collagen, type XVIII, alpha 1 Source MGI Symbol Acc MGI 88451
B07	SBM0880165	ENSMUST00000 217809.1	Cradd	ENSMUSG00 000045867	CASP2 and RIPK1 domain containing adaptor with death domain Source MGI Symbol Acc MGI 1336168
B08	SBM0783722	ENSMUST00000 034230.6	Cx3cl1	ENSMUSG00 000031778	chemokine (C-X3-C motif) ligand 1 Source MGI Symbol Acc MGI 1097153
B09	SBM0998835	ENSMUST00000 031327.8	Cxcl1	ENSMUSG00 000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B10	SBM0694289	ENSMUST00000 075433.7	Cxcl2	ENSMUSG00 000058427	chemokine (C-X-C motif) ligand 2 Source MGI Symbol Acc MGI 1340094
B11	SBM0950831	ENSMUST00000 179828.7	Cxcr5	ENSMUSG00 000047880	chemokine (C-X-C motif) receptor 5 Source MGI Symbol Acc MGI 103567
B12	SBM0992224	ENSMUST00000 021796.8	Edn1	ENSMUSG00 000021367	endothelin 1 Source MGI Symbol Acc MGI 95283
C01	SBM1000997	ENSMUST00000 030384.4	Edn2	ENSMUSG00 000028635	endothelin 2 Source MGI Symbol Acc MGI 95284
C02	SBM0725285	ENSMUST00000 034029.7	Ednra	ENSMUSG00 000031616	endothelin receptor type A Source MGI Symbol Acc MGI 105923
C03	SBM0877670	ENSMUST00000 156306.1	Eng	ENSMUSG00 000026814	endoglin Source MGI Symbol Acc MGI 95392
C04	SBM0878566	ENSMUST00000 059193.6	F2r	ENSMUSG00 000048376	coagulation factor II (thrombin) receptor Source MGI Symbol Acc MGI 101802
C05	SBM0680175	ENSMUST00000 022185.9	F2rl1	ENSMUSG00 000021678	coagulation factor II (thrombin) receptor-like 1 Source MGI Symbol Acc MGI 101910
C06	SBM0963811	ENSMUST00000 029771.12	F3	ENSMUSG00 000028128	coagulation factor III Source MGI Symbol Acc MGI 88381
C07	SBM0856649	ENSMUST00000 112472.3	Fas	ENSMUSG00 000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C08	SBM0967876	ENSMUST00000 000834.3	Fasl	ENSMUSG00 000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
C09	SBM1074617	ENSMUST00000 235922.1	Fgf1	ENSMUSG00 000036585	fibroblast growth factor 1 Source MGI Symbol Acc MGI 95515
C10	SBM0959713	ENSMUST00000 138563.8	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0996637	110529.5	Fit1	ENSMUSG000029648	FMS-like tyrosine kinase 1 Source MGI Symbol Acc MGI 95558
C12	SBM0934692	ENSMUST00000185408.6	Fn1	ENSMUSG0000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
D01	SBM1003614	ENSMUST00000110464.7	Hif1a	ENSMUSG0000021109	hypoxia inducible factor 1, alpha subunit Source MGI Symbol Acc MGI 106918
D02	SBM0806584	ENSMUST00000215003.1	Icam1	ENSMUSG0000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
D03	SBM0752881	ENSMUST00000094892.11	Il11	ENSMUSG0000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
D04	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D05	SBM1089901	ENSMUST00000019058.5	Il3	ENSMUSG0000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
D06	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D07	SBM1037504	ENSMUST00000168269.7	Il7	ENSMUSG0000040329	interleukin 7 Source MGI Symbol Acc MGI 96561
D08	SBM0776835	ENSMUST00000023128.7	Itga5	ENSMUSG0000000555	integrin alpha 5 (fibronectin receptor alpha) Source MGI Symbol Acc MGI 96604
D09	SBM0710817	ENSMUST00000151463.1	Itgav	ENSMUSG0000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
D10	SBM0691612	ENSMUST00000090006.11	Itgb1	ENSMUSG0000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
D11	SBM0851696	ENSMUST00000127140.2	Itgb3	ENSMUSG0000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
D12	SBM0947462	ENSMUST00000149573.1	Kdr	ENSMUSG0000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
E01	SBM0996057	ENSMUST00000202167.1	Kit	ENSMUSG0000005672	KIT proto-oncogene receptor tyrosine kinase Source MGI Symbol Acc MGI 96677
E02	SBM0888476	ENSMUST00000034492.5	Mmp1a	ENSMUSG0000043089	matrix metallopeptidase 1a (interstitial collagenase) Source MGI Symbol Acc MGI 1933846
E03	SBM0690200	ENSMUST00000034187.8	Mmp2	ENSMUSG0000031740	matrix metallopeptidase 2 Source MGI Symbol Acc MGI 97009
E04	SBM1089430	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metallopeptidase 9 Source MGI Symbol Acc MGI 97011
E05	SBM0681619	ENSMUST00000030834.6	Nos3	ENSMUSG0000028978	nitric oxide synthase 3, endothelial cell Source MGI Symbol Acc MGI 97362
E06	SBM1033372	ENSMUST00000103231.4	Nppb	ENSMUSG0000029019	natriuretic peptide type B Source MGI Symbol Acc MGI 97368
E07	SBM0913786	ENSMUST00000029540.12	Npr1	ENSMUSG0000027931	natriuretic peptide receptor 1 Source MGI Symbol Acc MGI 97371
E08	SBM1083398	ENSMUST00000159515.1	Ocln	ENSMUSG0000021638	occludin Source MGI Symbol Acc MGI 106183
E09	SBM0852876	ENSMUST00000168162.4	Pdgfra	ENSMUSG0000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
E10	SBM1044090	ENSMUST00000068021.8	Pecam1	ENSMUSG0000020717	platelet/endothelial cell adhesion molecule 1 Source MGI Symbol Acc MGI 97537
E11	SBM0889385	ENSMUST00000031320.7	Pf4	ENSMUSG0000029373	platelet factor 4 Source MGI Symbol Acc MGI 1888711
E12	SBM0900847	ENSMUST000000220985.1	Pgf	ENSMUSG0000004791	placental growth factor Source MGI Symbol Acc MGI 105095
F01	SBM0722468	ENSMUST00000033941.6	Plat	ENSMUSG0000031538	plasminogen activator, tissue Source MGI Symbol Acc MGI 97610
F02	SBM0733272	ENSMUST000000224141.1	Plau	ENSMUSG0000021822	plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611
F03	SBM0836626	ENSMUST00000014578.6	Plg	ENSMUSG0000059481	plasminogen Source MGI Symbol Acc MGI 97620
F04	SBM0914777	ENSMUST000000155095.1	Procr	ENSMUSG0000027611	protein C receptor, endothelial Source MGI Symbol Acc MGI 104596
F05	SBM0883937	ENSMUST000000136271.1	Ptgis	ENSMUSG0000017969	prostaglandin I2 (prostacyclin) synthase Source MGI Symbol Acc MGI 1097156
F06	SBM0782881	ENSMUST000000035065.8	Ptgs2	ENSMUSG0000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F07	SBM0765795	ENSMUST000000027874.5	Sele	ENSMUSG0000026582	selectin, endothelial cell Source MGI Symbol Acc MGI 98278
F08	SBM0975834	ENSMUST000000097491.9	Sell	ENSMUSG0000026581	selectin, lymphocyte Source MGI Symbol Acc MGI 98279
F09	SBM1080696	ENSMUST000000161020.7	Selp	ENSMUSG0000026580	selectin, platelet Source MGI Symbol Acc MGI 98280
F10	SBM0692445	ENSMUST000000202555.1	Selp1g	ENSMUSG0000048163	selectin, platelet (p-selectin) ligand Source MGI Symbol Acc MGI 106689

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0809699	ENSMUST00000 041388.10	Serpine1	ENSMUSG00 000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
F12	SBM0946306	ENSMUST00000 023707.10	Sod1	ENSMUSG00 000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
G01	SBM0875032	ENSMUST00000 131958.1	Tek	ENSMUSG00 000006386	TEK receptor tyrosine kinase Source MGI Symbol Acc MGI 98664
G02	SBM0827539	ENSMUST00000 111714.7	Tfpi	ENSMUSG00 000027082	tissue factor pathway inhibitor Source MGI Symbol Acc MGI 1095418
G03	SBM0850388	ENSMUST00000 002678.9	Tgfb1	ENSMUSG00 000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G04	SBM0830967	ENSMUST00000 099270.4	Thbd	ENSMUSG00 000074743	thrombomodulin Source MGI Symbol Acc MGI 98736
G05	SBM0895247	ENSMUST00000 142588.1	Thbs1	ENSMUSG00 000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G06	SBM0839007	ENSMUST00000 115342.9	Timp1	ENSMUSG00 000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G07	SBM0788439	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	SBM0969669	ENSMUST00000 046383.11	Tnfsf10	ENSMUSG00 000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G09	SBM0980785	ENSMUST00000 023285.4	Tymp	ENSMUSG00 000022615	thymidine phosphorylase Source MGI Symbol Acc MGI 1920212
G10	SBM1225402	ENSMUST00000 029574.12	Vcam1	ENSMUSG00 000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G11	SBM1079198	ENSMUST00000 217017.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	SBM0711301	ENSMUST00000 150548.7	Vwf	ENSMUSG00 000001930	Von Willebrand factor Source MGI Symbol Acc MGI 98941
H01	SBM1220560	ENSMUST00000 100497.10	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	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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