

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

Mouse Atherosclerosis

Cat. no. 249950 SBMM-038ZR

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	Abca1	Ace	Apoa1	Apob	ApoE	Bax	Bcl2	Bcl2a1a	Bcl2l1	Bid	Birc3	Ccl2
B	Ccl5	Ccr1	Ccr2	Cd44	Cdh5	Cflar	Col3a1	Csf2	Ccr2	Cxcl1	Eln	Eng
C	Fabp3	Fos	Fga	Fgb	Fgf2	Fn1	Hbegf	Icam1	Ifng	Il1a	Il1b	Il1r1
D	Il1r2	Il2	Il3	Il4	Il5	Ilga2	Ilga5	Itgax	Itgb2	Kdr	Klf2	Lama1
E	Ldlr	Lif	Lpl	Lypla1	Mmp1a	Mmp3	Mer1	Nfkb1	Npy	Nr1h3	Pdgfra	Pdgfb
F	Pdgfrb	Plin2	Ppara	Ppard	Pparg	Plgs1	Rara	Sele	Sell	Selp	Selpg	Serpina2
G	Serpine1	Sod1	Spp1	Tgfb1	Tgfb2	Thbs4	Tnc	Tnf	Tnfaip3	Vcam1	Vegfa	Vwf
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	SBM1010551	ENSMUST00000030010.3	Abca1	ENSMUSG0000015243	ATP-binding cassette, sub-family A (ABC1), member 1 Source MGI Symbol Acc MGI 99607
A02	SBM0904655	ENSMUST00000151657.1	Ace	ENSMUSG0000020681	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 Source MGI Symbol Acc MGI 87874
A03	SBM0916212	ENSMUST00000132155.1	Apoa1	ENSMUSG0000032083	apolipoprotein A-I Source MGI Symbol Acc MGI 88049
A04	SBM1016873	ENSMUST00000037520.13	Apob	ENSMUSG0000020609	apolipoprotein B Source MGI Symbol Acc MGI 88052
A05	SBM0912771	ENSMUST00000173739.7	ApoE	ENSMUSG0000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
A06	SBM0740166	ENSMUST00000211615.1	Bax	ENSMUSG0000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A07	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A08	SBM1020275	ENSMUST00000098485.3	Bcl2a1a	ENSMUSG0000102037	B cell leukemia/lymphoma 2 related protein A1a Source MGI Symbol Acc MGI 102687
A09	SBM0751583	ENSMUST00000134357.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
A10	SBM0938087	ENSMUST00000160684.7	Bid	ENSMUSG0000004446	BH3 interacting domain death agonist Source MGI Symbol Acc MGI 108093
A11	SBM0873926	ENSMUST00000115672.1	Birc3	ENSMUSG0000032000	baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007
A12	SBM0836747	ENSMUST00000000193.5	Ccl2	ENSMUSG0000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
B01	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG0000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
B02	SBM1015405	ENSMUST00000026911.5	Ccr1	ENSMUSG0000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
B03	SBM0796638	ENSMUST00000168841.2	Ccr2	ENSMUSG0000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
B04	SBM0860996	ENSMUST00000111194.7	Cd44	ENSMUSG0000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
B05	SBM0916537	ENSMUST00000034339.9	Cdh5	ENSMUSG0000031871	cadherin 5 Source MGI Symbol Acc MGI 105057
B06	SBM0727764	ENSMUST00000124567.1	Cflar	ENSMUSG0000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
B07	SBM0704935	ENSMUST00000129611.1	Col3a1	ENSMUSG0000026043	collagen, type III, alpha 1 Source MGI Symbol Acc MGI 88453
B08	SBM1080991	ENSMUST00000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B09	SBM0718058	ENSMUST00000176228.1	Ccn2	ENSMUSG0000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
B10	SBM0998835	ENSMUST00000031327.8	Cxcl1	ENSMUSG0000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B11	SBM0963634	ENSMUST00000201856.1	ElN	ENSMUSG0000029675	elastin Source MGI Symbol Acc MGI 95317
B12	SBM0877670	ENSMUST00000156306.1	Eng	ENSMUSG0000026814	endoglin Source MGI Symbol Acc MGI 95392
C01	SBM0915423	ENSMUST00000070532.7	Fabp3	ENSMUSG0000028773	fatty acid binding protein 3, muscle and heart Source MGI Symbol Acc MGI 95476
C02	SBM0856649	ENSMUST00000112472.3	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C03	SBM0779575	ENSMUST00000166581.3	Fga	ENSMUSG0000028001	fibrinogen alpha chain Source MGI Symbol Acc MGI 1316726
C04	SBM0789421	ENSMUST00000048246.4	Fgb	ENSMUSG0000033831	fibrinogen beta chain Source MGI Symbol Acc MGI 99501
C05	SBM0959713	ENSMUST00000138563.8	Fgf2	ENSMUSG0000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C06	SBM0934692	ENSMUST00000185408.6	Fn1	ENSMUSG0000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C07	SBM0904142	ENSMUST00000025363.6	Hbegf	ENSMUSG0000024486	heparin-binding EGF-like growth factor Source MGI Symbol Acc MGI 96070
C08	SBM0806584	ENSMUST00000215003.1	Icam1	ENSMUSG0000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
C09	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C10	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG0000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0738485	028881.13	Il1b	000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
C12	SBM1086348	ENSMUST00000 027241.10	Il1r1	ENSMUSG00 000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D01	SBM0820917	ENSMUST00000 195770.1	Il1r2	ENSMUSG00 000026073	interleukin 1 receptor, type II Source MGI Symbol Acc MGI 96546
D02	SBM0797059	ENSMUST00000 029275.5	Il2	ENSMUSG00 000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D03	SBM1089901	ENSMUST00000 019058.5	Il3	ENSMUSG00 000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
D04	SBM0926369	ENSMUST00000 150568.7	Il4	ENSMUSG00 000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
D05	SBM1034588	ENSMUST00000 048605.2	Il5	ENSMUSG00 000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
D06	SBM1002416	ENSMUST00000 056117.9	Itga2	ENSMUSG00 000015533	integrin alpha 2 Source MGI Symbol Acc MGI 96600
D07	SBM0776835	ENSMUST00000 023128.7	Itga5	ENSMUSG00 000000555	integrin alpha 5 (fibronectin receptor alpha) Source MGI Symbol Acc MGI 96604
D08	SBM0923673	ENSMUST00000 033053.7	Itgax	ENSMUSG00 000030789	integrin alpha X Source MGI Symbol Acc MGI 96609
D09	SBM0947975	ENSMUST00000 131023.7	Itgb2	ENSMUSG00 000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
D10	SBM0947462	ENSMUST00000 149573.1	Kdr	ENSMUSG00 000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
D11	SBM1068978	ENSMUST00000 067912.7	Klf2	ENSMUSG00 000055148	Kruppel-like factor 2 (lung) Source MGI Symbol Acc MGI 1342772
D12	SBM0711087	ENSMUST00000 233224.1	Lama1	ENSMUSG00 000032796	laminin, alpha 1 Source MGI Symbol Acc MGI 99892
E01	SBM0960715	ENSMUST00000 217111.1	Ldlr	ENSMUSG00 000032193	low density lipoprotein receptor Source MGI Symbol Acc MGI 96765
E02	SBM0873612	ENSMUST00000 066283.11	Lif	ENSMUSG00 000034394	leukemia inhibitory factor Source MGI Symbol Acc MGI 96787
E03	SBM1060657	ENSMUST00000 015712.14	Lpl	ENSMUSG00 000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E04	SBM0839897	ENSMUST00000 115529.7	Lypla1	ENSMUSG00 000025903	lysophospholipase 1 Source MGI Symbol Acc MGI 1344588
E05	SBM0888476	ENSMUST00000 034492.5	Mmp1a	ENSMUSG00 000043089	matrix metalloproteinase 1a (interstitial collagenase) Source MGI Symbol Acc MGI 1933846
E06	SBM1025609	ENSMUST00000 034497.7	Mmp3	ENSMUSG00 000043613	matrix metalloproteinase 3 Source MGI Symbol Acc MGI 97010
E07	SBM0771853	ENSMUST00000 026021.13	Msr1	ENSMUSG00 000025044	macrophage scavenger receptor 1 Source MGI Symbol Acc MGI 98257
E08	SBM0841870	ENSMUST00000 164430.6	Nfkb1	ENSMUSG00 000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E09	SBM0865432	ENSMUST00000 031843.6	Npy	ENSMUSG00 000029819	neuropeptide Y Source MGI Symbol Acc MGI 97374
E10	SBM0913125	ENSMUST00000 150654.7	Nr1h3	ENSMUSG00 000002108	nuclear receptor subfamily 1, group H, member 3 Source MGI Symbol Acc MGI 1352462
E11	SBM0932962	ENSMUST00000 124080.7	Pdgfra	ENSMUSG00 000025856	platelet derived growth factor, alpha Source MGI Symbol Acc MGI 97527
E12	SBM0947438	ENSMUST00000 000500.7	Pdgfb	ENSMUSG00 000000489	platelet derived growth factor, B polypeptide Source MGI Symbol Acc MGI 97528
F01	SBM0934218	ENSMUST00000 025522.10	Pdgfrb	ENSMUSG00 000024620	platelet derived growth factor receptor, beta polypeptide Source MGI Symbol Acc MGI 97531
F02	SBM0683560	ENSMUST00000 140382.2	Plin2	ENSMUSG00 000028494	perilipin 2 Source MGI Symbol Acc MGI 87920
F03	SBM0952484	ENSMUST00000 138813.7	Ppara	ENSMUSG00 000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F04	SBM0865243	ENSMUST00000 169040.2	Ppard	ENSMUSG00 000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
F05	SBM1015614	ENSMUST00000 205213.2	Pparg	ENSMUSG00 000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F06	SBM0775877	ENSMUST00000 149930.2	Ptgs1	ENSMUSG00 000047250	prostaglandin-endoperoxide synthase 1 Source MGI Symbol Acc MGI 97797
F07	SBM0865579	ENSMUST00000 166775.7	Rxra	ENSMUSG00 000015846	retinoid X receptor alpha Source MGI Symbol Acc MGI 98214
F08	SBM0765795	ENSMUST00000 027874.5	Sele	ENSMUSG00 000026582	selectin, endothelial cell Source MGI Symbol Acc MGI 98278
F09	SBM0975834	ENSMUST00000 097491.9	Sell	ENSMUSG00 000026581	selectin, lymphocyte Source MGI Symbol Acc MGI 98279
F10	SBM1080696	ENSMUST00000 161020.7	Selp	ENSMUSG00 000026580	selectin, platelet Source MGI Symbol Acc MGI 98280

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0692445	ENSMUST00000202555.1	Selp1g	ENSMUSG00000048163	selectin, platelet (p-selectin) ligand Source MGI Symbol Acc MGI 106689
F12	SBM0738846	ENSMUST00000009356.10	Serp1nb2	ENSMUSG00000062345	serine (or cysteine) peptidase inhibitor, clade B, member 2 Source MGI Symbol Acc MGI 97609
G01	SBM0809699	ENSMUST00000041388.10	Serp1ne1	ENSMUSG00000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
G02	SBM0946306	ENSMUST00000023707.10	Sod1	ENSMUSG00000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
G03	SBM0826950	ENSMUST00000086833.12	Spp1	ENSMUSG00000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
G04	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG00000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G05	SBM0955433	ENSMUST000000194960.1	Tgfb2	ENSMUSG00000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
G06	SBM1025093	ENSMUST000000168299.1	Thbs4	ENSMUSG00000021702	thrombospondin 4 Source MGI Symbol Acc MGI 1101779
G07	SBM1089732	ENSMUST000000107377.9	Tnc	ENSMUSG00000028364	tenascin C Source MGI Symbol Acc MGI 101922
G08	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G09	SBM0936524	ENSMUST000000105527.1	Tnfaip3	ENSMUSG00000019850	tumor necrosis factor, alpha-induced protein 3 Source MGI Symbol Acc MGI 1196377
G10	SBM1225402	ENSMUST00000029574.12	Vcam1	ENSMUSG00000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G11	SBM1079198	ENSMUST000000217017.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	SBM0711301	ENSMUST000000150548.7	Vwf	ENSMUSG00000001930	Von Willebrand factor Source MGI Symbol Acc MGI 98941
H01	SBM1220560	ENSMUST000000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST000000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST000000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST000000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST000000166469.7	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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