

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

Mouse Angiogenesis

Cat. no. 249950 SBMM-024ZR

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	Akt1	Ang	Angpt1	Angpt2	Anpep	Adgrb1	Ccl11	Ccd2	Cdh5	Col18a1	Col4a3	Csf3
B	Ccn2	Cxcl1	Cxcl2	Cxcl5	Edn1	Efna1	Efnb2	Egf	Eng	Epos1	Ephb4	Erbb2
C	F2	F3	Fgf1	Fgf2	Fgf6	Fgfr3	Vegfd	Fit1	Fn1	Hgf	Hif1a	Ifng
D	Igf1	Il11b	Il6	Itgav	Itgb3	Jog1	Kdr	Cnmd	Lep	Mapk14	Mdk	Mmp14
E	Mmp19	Mmp2	Mmp9	Nos3	Nrp1	Nrp2	Pdgfa	Pecam1	Pgf	Piau	Pig	Ptgf1
F	Pik2	S1pr1	Serpine1	Serpinf1	Smod5	Sphk1	Tbx1	Tek	Tgfb1	Tgfb2	Tgfb3	
G	Tgfb1	Thbs1	Thbs2	Tie1	Tim1	Tim2	Tnf	Tnfsf12	Tymp	Vegfa	Vegfb	Vegfc
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	SBM1020452	ENSMUST00000 144550.8	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A02	SBM1031143	ENSMUST00000 069011.8	Ang	ENSMUSG00 000072115	angiogenin, ribonuclease, RNase A family, 5 Source MGI Symbol Acc MGI 88022
A03	SBM0848818	ENSMUST00000 022921.6	Angpt1	ENSMUSG00 000022309	angiopoietin 1 Source MGI Symbol Acc MGI 108448
A04	SBM0989251	ENSMUST00000 170200.1	Angpt2	ENSMUSG00 000031465	angiopoietin 2 Source MGI Symbol Acc MGI 1202890
A05	SBM0744926	ENSMUST00000 049004.7	Anpep	ENSMUSG00 000039062	alanyl (membrane) aminopeptidase Source MGI Symbol Acc MGI 5000466
A06	SBM1083363	ENSMUST00000 185682.6	Adgrb1	ENSMUSG00 000034730	adhesion G protein-coupled receptor B1 Source MGI Symbol Acc MGI 1933736
A07	SBM0757192	ENSMUST00000 000342.2	Ccl11	ENSMUSG00 000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
A08	SBM0836747	ENSMUST00000 000193.5	Ccl2	ENSMUSG00 000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
A09	SBM0916537	ENSMUST00000 034339.9	Cdh5	ENSMUSG00 000031871	cadherin 5 Source MGI Symbol Acc MGI 105057
A10	SBM0820945	ENSMUST00000 156009.1	Col18a1	ENSMUSG00 000001435	collagen, type XVIII, alpha 1 Source MGI Symbol Acc MGI 88451
A11	SBM1225392	ENSMUST00000 152664.1	Col4a3	ENSMUSG00 000079465	collagen, type IV, alpha 3 Source MGI Symbol Acc MGI 104688
A12	SBM0837472	ENSMUST00000 038886.2	Csf3	ENSMUSG00 000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
B01	SBM0718058	ENSMUST00000 176228.1	Ccn2	ENSMUSG00 000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
B02	SBM0998835	ENSMUST00000 031327.8	Cxcl1	ENSMUSG00 000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B03	SBM0694289	ENSMUST00000 075433.7	Cxcl2	ENSMUSG00 000058427	chemokine (C-X-C motif) ligand 2 Source MGI Symbol Acc MGI 1340094
B04	SBM0760625	ENSMUST00000 202380.1	Cxcl5	ENSMUSG00 000029371	chemokine (C-X-C motif) ligand 5 Source MGI Symbol Acc MGI 1096868
B05	SBM0992224	ENSMUST00000 021796.8	Edn1	ENSMUSG00 000021367	endothelin 1 Source MGI Symbol Acc MGI 95283
B06	SBM0921661	ENSMUST00000 118587.7	Efna1	ENSMUSG00 000027954	ephrin A1 Source MGI Symbol Acc MGI 103236
B07	SBM0938955	ENSMUST00000 152698.1	Efnb2	ENSMUSG00 00001300	ephrin B2 Source MGI Symbol Acc MGI 105097
B08	SBM1005237	ENSMUST00000 197079.4	Egf	ENSMUSG00 000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
B09	SBM0877670	ENSMUST00000 156306.1	Eng	ENSMUSG00 000026814	endoglin Source MGI Symbol Acc MGI 95392
B10	SBM0856458	ENSMUST00000 024954.10	Epas1	ENSMUSG00 000024140	endothelial PAS domain protein 1 Source MGI Symbol Acc MGI 109169
B11	SBM0843838	ENSMUST00000 111055.8	Ephb4	ENSMUSG00 000029710	Eph receptor B4 Source MGI Symbol Acc MGI 104757
B12	SBM0761323	ENSMUST00000 136032.1	Erbb2	ENSMUSG00 000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
C01	SBM0895867	ENSMUST00000 028681.14	F2	ENSMUSG00 000027249	coagulation factor II Source MGI Symbol Acc MGI 88380
C02	SBM0963811	ENSMUST00000 029771.12	F3	ENSMUSG00 000028128	coagulation factor III Source MGI Symbol Acc MGI 88381
C03	SBM1074617	ENSMUST00000 235922.1	Fgf1	ENSMUSG00 000036585	fibroblast growth factor 1 Source MGI Symbol Acc MGI 95515
C04	SBM0959713	ENSMUST00000 138563.8	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C05	SBM1066026	ENSMUST00000 000187.6	Fgf6	ENSMUSG00 000000183	fibroblast growth factor 6 Source MGI Symbol Acc MGI 95520
C06	SBM0713841	ENSMUST00000 169212.8	Fgfr3	ENSMUSG00 000054252	fibroblast growth factor receptor 3 Source MGI Symbol Acc MGI 95524
C07	SBM0809039	ENSMUST00000 124851.1	Vegfd	ENSMUSG00 000031380	vascular endothelial growth factor D Source MGI Symbol Acc MGI 108037
C08	SBM0996637	ENSMUST00000 110529.5	Flt1	ENSMUSG00 000029648	FMS-like tyrosine kinase 1 Source MGI Symbol Acc MGI 95558
C09	SBM0934692	ENSMUST00000 185408.6	Fn1	ENSMUSG00 000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C10	SBM0858725	ENSMUST00000 200189.4	Hgf	ENSMUSG00 000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0955433	ENSMUST00000 194960.1	Tgfb2	ENSMUSG00 000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
F12	SBM1022458	ENSMUST00000 003687.7	Tgfb3	ENSMUSG00 000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G01	SBM0973351	ENSMUST00000 044234.13	Tgfr1	ENSMUSG00 000007613	transforming growth factor, beta receptor I Source MGI Symbol Acc MGI 98728
G02	SBM0895247	ENSMUST00000 142588.1	Thbs1	ENSMUSG00 000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G03	SBM0822435	ENSMUST00000 170872.2	Thbs2	ENSMUSG00 000023885	thrombospondin 2 Source MGI Symbol Acc MGI 98738
G04	SBM1028227	ENSMUST00000 047421.5	Tie1	ENSMUSG00 00003191	tyrosine kinase with immunoglobulin-like and EGF-like domains 1 Source MGI Symbol Acc MGI 99906
G05	SBM0839007	ENSMUST00000 115342.9	Timp1	ENSMUSG00 000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G06	SBM0732357	ENSMUST00000 155707.2	Timp2	ENSMUSG00 000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G07	SBM0788439	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	SBM0826302	ENSMUST00000 181810.7	Tnfsf12	ENSMUSG00 000097328	tumor necrosis factor (ligand) superfamily, member 12 Source MGI Symbol Acc MGI 1196259
G09	SBM0980785	ENSMUST00000 023285.4	Tymp	ENSMUSG00 00002615	thymidine phosphorylase Source MGI Symbol Acc MGI 1920212
G10	SBM1079198	ENSMUST00000 217017.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G11	SBM0920136	ENSMUST00000 130048.7	Vegfb	ENSMUSG00 000024962	vascular endothelial growth factor B Source MGI Symbol Acc MGI 106199
G12	SBM0863177	ENSMUST00000 209703.1	Vegfc	ENSMUSG00 000031520	vascular endothelial growth factor C Source MGI Symbol Acc MGI 109124
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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.