

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

Mouse Tumor Metastasis

Cat. no. 249950 SBMM-028ZR

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	Apc	Brms1	Ccl7	Cd44	Cd82	Cdh1	Cdh11	Cdh6	Cdh8	Cdkn2a	Chd4	Col4a2
B	Csf1	Ctbp1	Ctnna1	Ctsk	Ctsl	Cxcl12	Cxcr2	Cxcr4	Denr	Elane	Ephb2	Etv4
C	Ewsr1	Fat1	Fgf4	Flt4	Fn1	Fxyd5	Gpnmb	Hgf	Hps6	Hras	Httatip2	Igf1
D	Il18	Il1b	Itga7	Itgb3	Kiss1	Kiss1r	Kras	Lpar6	Mcam	Mdm2	Met	Mmp10
E	Mmp11	Mmp13	Mmp2	Mmp3	Mmp7	Mmp9	Mta1	Mtss1	Myc	Mycl	Nf2	Nme1
F	Nme2	Nme4	Nr4a3	Pflaur	Pnn	Pten	Rb1	Rorb	Rpsa	Set	Smed2	Smed4
G	Src	Sstr2	Syk	Tcf20	Tgfb1	Timp2	Timp3	Timp4	Tnfsf10	Trp53	Tshr	Vegfa
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	SBM0782035	ENSMUST00000 079362.12	Apc	ENSMUSG00 000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A02	SBM0809854	ENSMUST00000 237117.1	Brms1	ENSMUSG00 000080268	breast cancer metastasis-suppressor 1 Source MGI Symbol Acc MGI 2388804
A03	SBM0998844	ENSMUST00000 021011.2	Ccl7	ENSMUSG00 000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
A04	SBM0860996	ENSMUST00000 111194.7	Cd44	ENSMUSG00 000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
A05	SBM0792997	ENSMUST00000 116457.8	Cd82	ENSMUSG00 000027215	CD82 antigen Source MGI Symbol Acc MGI 104651
A06	SBM0815100	ENSMUST00000 136580.1	Cdh1	ENSMUSG00 00000303	cadherin 1 Source MGI Symbol Acc MGI 88354
A07	SBM0832324	ENSMUST00000 210425.1	Cdh11	ENSMUSG00 000031673	cadherin 11 Source MGI Symbol Acc MGI 99217
A08	SBM0916393	ENSMUST00000 036439.5	Cdh6	ENSMUSG00 000039385	cadherin 6 Source MGI Symbol Acc MGI 107435
A09	SBM1036019	ENSMUST00000 093249.10	Cdh8	ENSMUSG00 000036510	cadherin 8 Source MGI Symbol Acc MGI 107434
A10	SBM0998051	ENSMUST00000 060501.4	Cdkn2a	ENSMUSG00 000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
A11	SBM0848966	ENSMUST00000 155261.1	Chd4	ENSMUSG00 000063870	chromodomain helicase DNA binding protein 4 Source MGI Symbol Acc MGI 1344380
A12	SBM0756779	ENSMUST00000 033899.13	Col4a2	ENSMUSG00 000031503	collagen, type IV, alpha 2 Source MGI Symbol Acc MGI 88455
B01	SBM0903322	ENSMUST00000 155557.1	Csf1	ENSMUSG00 000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B02	SBM1023677	ENSMUST00000 201372.2	Ctbp1	ENSMUSG00 000037373	C-terminal binding protein 1 Source MGI Symbol Acc MGI 1201685
B03	SBM0712952	ENSMUST00000 236571.1	Ctnna1	ENSMUSG00 000037815	catenin (cadherin associated protein), alpha 1 Source MGI Symbol Acc MGI 88274
B04	SBM0898879	ENSMUST00000 015664.4	Ctsk	ENSMUSG00 000028111	cathepsin K Source MGI Symbol Acc MGI 107823
B05	SBM1071990	ENSMUST00000 222462.1	Ctsl	ENSMUSG00 000021477	cathepsin L Source MGI Symbol Acc MGI 88564
B06	SBM0703161	ENSMUST00000 134244.1	Cxcl12	ENSMUSG00 000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
B07	SBM0963144	ENSMUST00000 106899.3	Cxcr2	ENSMUSG00 000026180	chemokine (C-X-C motif) receptor 2 Source MGI Symbol Acc MGI 105303
B08	SBM0923037	ENSMUST00000 052172.6	Cxcr4	ENSMUSG00 000045382	chemokine (C-X-C motif) receptor 4 Source MGI Symbol Acc MGI 109563
B09	SBM0956446	ENSMUST00000 023869.14	Denr	ENSMUSG00 000023106	density-regulated protein Source MGI Symbol Acc MGI 1915434
B10	SBM0811159	ENSMUST00000 046091.6	Elane	ENSMUSG00 000020125	elastase, neutrophil expressed Source MGI Symbol Acc MGI 2679229
B11	SBM0735322	ENSMUST00000 156558.1	Ephb2	ENSMUSG00 000028664	Eph receptor B2 Source MGI Symbol Acc MGI 99611
B12	SBM0743574	ENSMUST00000 129995.7	Etv4	ENSMUSG00 000017724	ets variant 4 Source MGI Symbol Acc MGI 99423
C01	SBM0811931	ENSMUST00000 151847.1	Ewsr1	ENSMUSG00 000009079	Ewing sarcoma breakpoint region 1 Source MGI Symbol Acc MGI 99960
C02	SBM1009954	ENSMUST00000 098796.9	Fat1	ENSMUSG00 000070047	FAT atypical cadherin 1 Source MGI Symbol Acc MGI 109168
C03	SBM1072151	ENSMUST00000 162967.1	Fgfr4	ENSMUSG00 000005320	fibroblast growth factor receptor 4 Source MGI Symbol Acc MGI 95525
C04	SBM0847026	ENSMUST00000 020617.2	Flt4	ENSMUSG00 000020357	FMS-like tyrosine kinase 4 Source MGI Symbol Acc MGI 95561
C05	SBM0934692	ENSMUST00000 185408.6	Fn1	ENSMUSG00 000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C06	SBM1082511	ENSMUST00000 161684.7	Fxyd5	ENSMUSG00 000009687	FXYD domain-containing ion transport regulator 5 Source MGI Symbol Acc MGI 1201785
C07	SBM1071689	ENSMUST00000 204260.1	Gpnm	ENSMUSG00 000029816	glycoprotein (transmembrane) nmb Source MGI Symbol Acc MGI 1934765
C08	SBM0858725	ENSMUST00000 200189.4	Hgf	ENSMUSG00 000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
C09	SBM0962947	ENSMUST00000 112908.1	Hpse	ENSMUSG00 000035273	heparanase Source MGI Symbol Acc MGI 1343124
C10	SBM0815785	ENSMUST00000 097957.10	Hras	ENSMUSG00 000025499	Harvey rat sarcoma virus oncogene Source MGI Symbol Acc MGI 96224
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1009250	ENSMUST00000 165084.7	Smad2	ENSMUSG00 000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F12	SBM1071100	ENSMUST00000 114939.1	Smad4	ENSMUSG00 000024515	SMAD family member 4 Source MGI Symbol Acc MGI 894293
G01	SBM1051097	ENSMUST00000 029175.13	Src	ENSMUSG00 000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G02	SBM0791847	ENSMUST00000 146390.2	Sstr2	ENSMUSG00 000047904	somatostatin receptor 2 Source MGI Symbol Acc MGI 98328
G03	SBM0702487	ENSMUST00000 120135.7	Syk	ENSMUSG00 000021457	spleen tyrosine kinase Source MGI Symbol Acc MGI 99515
G04	SBM0710181	ENSMUST00000 048966.6	Tcf20	ENSMUSG00 000041852	transcription factor 20 Source MGI Symbol Acc MGI 108399
G05	SBM0850388	ENSMUST00000 002678.9	Tgfb1	ENSMUSG00 000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G06	SBM0732357	ENSMUST00000 155707.2	Timp2	ENSMUSG00 000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G07	SBM1025772	ENSMUST00000 132307.1	Timp3	ENSMUSG00 000020044	tissue inhibitor of metalloproteinase 3 Source MGI Symbol Acc MGI 98754
G08	SBM1077931	ENSMUST00000 032462.8	Timp4	ENSMUSG00 000030317	tissue inhibitor of metalloproteinase 4 Source MGI Symbol Acc MGI 109125
G09	SBM0969669	ENSMUST00000 046383.11	Tnfsf10	ENSMUSG00 000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G10	SBM0841427	ENSMUST00000 108657.3	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G11	SBM0929034	ENSMUST00000 221216.1	Tshr	ENSMUSG00 000020963	thyroid stimulating hormone receptor Source MGI Symbol Acc MGI 98849
G12	SBM1079198	ENSMUST00000 217017.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
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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