

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

Mouse WNT Signaling Targets

Cat. no. 249950 SBMM-243ZR

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	Abcb1a	Ahr	Angptl4	Anhr1	Axin2	Birc5	Bmp4	Btrc	Cacna2d3	Ccnd1	Ccnd2	Cd44
B	Cdh1	Cdkn2a	Cdon	Cebpd	Ccn2	Cubn	Dab2	Dkk1	Dlk1	Dpp10	Efnb1	Egfr
C	Egr1	Enpp2	Ets2	Fgf20	Fgf4	Fgf7	Fgf9	Fn1	Fosl1	Fst	Fzd7	Gdf5
D	Gdnf	Gja1	Id2	Igf1	Igf2	Il6	Irs1	Jag1	Klf5	Lef1	Lrp1	Met
E	Mmp2	Mmp7	Mmp9	Myc	Nanog	Nrcam	Nrp1	Ntrk2	Pdgfra	Ptx2	Plaur	Pou5f1
F	Ppp3	Ppard	Ptch1	Ptgs2	Runx2	Sfrp2	Six1	Smo	Sox2	Sox9	T	Tcf4
G	Tcf7	Tcf7l1	Tcf7l2	Tgfb3	Tle1	Twist1	Vegfa	Ccn4	Ccn5	Wnt3a	Wnt5a	Wnt9a
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	SBM1065613	ENSMUST00000126846.1	Abcb1a	ENSMUSG0000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A02	SBM0733281	ENSMUST00000110811.2	Ahr	ENSMUSG0000019256	aryl-hydrocarbon receptor Source MGI Symbol Acc MGI 105043
A03	SBM0692606	ENSMUST00000174872.1	Angptl4	ENSMUSG0000002289	angiopoietin-like 4 Source MGI Symbol Acc MGI 1888999
A04	SBM0872572	ENSMUST00000042025.11	Antxr1	ENSMUSG0000033420	anthrax toxin receptor 1 Source MGI Symbol Acc MGI 1916788
A05	SBM0714773	ENSMUST00000106711.1	Axin2	ENSMUSG0000000142	axin 2 Source MGI Symbol Acc MGI 1270862
A06	SBM0773958	ENSMUST00000081387.10	Birc5	ENSMUSG0000017716	baculoviral IAP repeat-containing 5 Source MGI Symbol Acc MGI 1203517
A07	SBM0845886	ENSMUST00000100676.2	Bmp4	ENSMUSG0000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
A08	SBM0704070	ENSMUST00000225662.1	Btrc	ENSMUSG0000025217	beta-transducin repeat containing protein Source MGI Symbol Acc MGI 1338871
A09	SBM0771982	ENSMUST00000225985.1	Cacna2d3	ENSMUSG0000021991	calcium channel, voltage-dependent, alpha2/delta subunit 3 Source MGI Symbol Acc MGI 1338890
A10	SBM0706150	ENSMUST00000093962.4	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A11	SBM0977018	ENSMUST00000201066.1	Ccnd2	ENSMUSG0000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
A12	SBM0860996	ENSMUST00000111194.7	Cd44	ENSMUSG0000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
B01	SBM0815100	ENSMUST00000136580.1	Cdh1	ENSMUSG0000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
B02	SBM0998051	ENSMUST00000060501.4	Cdkn2a	ENSMUSG0000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
B03	SBM0749096	ENSMUST00000127264.1	Cdon	ENSMUSG0000038119	cell adhesion molecule-related/down-regulated by oncogenes Source MGI Symbol Acc MGI 1926387
B04	SBM0962498	ENSMUST00000096232.5	Cebpd	ENSMUSG0000071637	CCAAT/enhancer binding protein (C/EBP), delta Source MGI Symbol Acc MGI 103573
B05	SBM0718058	ENSMUST00000176228.1	Ccn2	ENSMUSG0000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
B06	SBM0918245	ENSMUST00000195447.1	Cubn	ENSMUSG0000026726	cubilin (intrinsic factor-cobalamin receptor) Source MGI Symbol Acc MGI 1931256
B07	SBM0997637	ENSMUST00000080880.11	Dab2	ENSMUSG0000022150	disabled 2, mitogen-responsive phosphoprotein Source MGI Symbol Acc MGI 109175
B08	SBM0673405	ENSMUST00000025803.8	Dkk1	ENSMUSG0000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
B09	SBM0770323	ENSMUST00000109844.10	Dlk1	ENSMUSG0000040856	delta like non-canonical Notch ligand 1 Source MGI Symbol Acc MGI 94900
B10	SBM0908617	ENSMUST00000112603.3	Dpp10	ENSMUSG0000036815	dipeptidylpeptidase 10 Source MGI Symbol Acc MGI 2442409
B11	SBM1011520	ENSMUST00000151750.1	Efnb1	ENSMUSG0000031217	ephrin B1 Source MGI Symbol Acc MGI 102708
B12	SBM1033270	ENSMUST00000020329.12	Egfr	ENSMUSG0000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C01	SBM0782056	ENSMUST00000064795.5	Egr1	ENSMUSG0000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
C02	SBM0841162	ENSMUST00000041591.15	Enpp2	ENSMUSG0000022425	ectonucleotide pyrophosphatase/phosphodiesterase 2 Source MGI Symbol Acc MGI 1321390
C03	SBM0823296	ENSMUST00000023612.16	Ets2	ENSMUSG0000022895	E26 avian leukemia oncogene 2, 3 domain Source MGI Symbol Acc MGI 95456
C04	SBM0988534	ENSMUST00000118639.1	Fgf20	ENSMUSG0000031603	fibroblast growth factor 20 Source MGI Symbol Acc MGI 1891346
C05	SBM0696463	ENSMUST00000060336.4	Fgf4	ENSMUSG0000050917	fibroblast growth factor 4 Source MGI Symbol Acc MGI 95518
C06	SBM0751389	ENSMUST00000064794.13	Fgf7	ENSMUSG0000027208	fibroblast growth factor 7 Source MGI Symbol Acc MGI 95521
C07	SBM0984598	ENSMUST00000022545.13	Fgf9	ENSMUSG0000021974	fibroblast growth factor 9 Source MGI Symbol Acc MGI 104723
C08	SBM0934692	ENSMUST00000185408.6	Fn1	ENSMUSG0000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C09	SBM0970102	ENSMUST00000235958.1	Fosl1	ENSMUSG0000024912	fos-like antigen 1 Source MGI Symbol Acc MGI 107179
C10	SBM1028469	ENSMUST00000022287.7	Fst	ENSMUSG0000021765	follistatin Source MGI Symbol Acc MGI 95586
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1055854	114246.3	Fzd7	000041075	frizzled class receptor 7 Source MGI Symbol Acc MGI 108570
C12	SBM0811347	ENSMUST00000 040162.2	Gdf5	ENSMUSG00 000038259	growth differentiation factor 5 Source MGI Symbol Acc MGI 95688
D01	SBM0745351	ENSMUST00000 022744.4	Gdnf	ENSMUSG00 000022144	glial cell line derived neurotrophic factor Source MGI Symbol Acc MGI 107430
D02	SBM1033106	ENSMUST00000 218834.1	Gja1	ENSMUSG00 000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
D03	SBM1022270	ENSMUST00000 020974.6	Id2	ENSMUSG00 000020644	inhibitor of DNA binding 2 Source MGI Symbol Acc MGI 96397
D04	SBM1026650	ENSMUST00000 122386.7	Igf1	ENSMUSG00 000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D05	SBM0905480	ENSMUST00000 121128.7	Igf2	ENSMUSG00 000048583	insulin-like growth factor 2 Source MGI Symbol Acc MGI 96434
D06	SBM0742623	ENSMUST00000 026845.11	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D07	SBM0923271	ENSMUST00000 069799.2	Irs1	ENSMUSG00 000055980	insulin receptor substrate 1 Source MGI Symbol Acc MGI 99454
D08	SBM0986327	ENSMUST00000 028735.7	Jag1	ENSMUSG00 000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
D09	SBM0747041	ENSMUST00000 005279.7	Klf5	ENSMUSG00 000005148	Kruppel-like factor 5 Source MGI Symbol Acc MGI 1338056
D10	SBM1041904	ENSMUST00000 198624.1	Lef1	ENSMUSG00 000027985	lymphoid enhancer binding factor 1 Source MGI Symbol Acc MGI 96770
D11	SBM1037164	ENSMUST00000 125480.1	Lrp1	ENSMUSG00 000040249	low density lipoprotein receptor-related protein 1 Source MGI Symbol Acc MGI 96828
D12	SBM1055926	ENSMUST00000 115442.7	Met	ENSMUSG00 000009376	met proto-oncogene Source MGI Symbol Acc MGI 96969
E01	SBM0690200	ENSMUST00000 034187.8	Mmp2	ENSMUSG00 000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E02	SBM0709342	ENSMUST00000 018767.7	Mmp7	ENSMUSG00 000018623	matrix metalloproteinase 7 Source MGI Symbol Acc MGI 103189
E03	SBM1089430	ENSMUST00000 017881.2	Mmp9	ENSMUSG00 000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E04	SBM0987162	ENSMUST00000 159338.1	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
E05	SBM0911915	ENSMUST00000 012540.4	Nanog	ENSMUSG00 000012396	Nanog homeobox Source MGI Symbol Acc MGI 1919200
E06	SBM0848097	ENSMUST00000 219592.1	Nrcam	ENSMUSG00 000020598	neuronal cell adhesion molecule Source MGI Symbol Acc MGI 104750
E07	SBM0705168	ENSMUST00000 212746.1	Nrp1	ENSMUSG00 000025810	neuropilin 1 Source MGI Symbol Acc MGI 106206
E08	SBM1050719	ENSMUST00000 224402.1	Ntrk2	ENSMUSG00 000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
E09	SBM0852876	ENSMUST00000 168162.4	Pdgfra	ENSMUSG00 000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
E10	SBM1066657	ENSMUST00000 042587.11	Pitx2	ENSMUSG00 000028023	paired-like homeodomain transcription factor 2 Source MGI Symbol Acc MGI 109340
E11	SBM0732269	ENSMUST00000 206514.1	Plaur	ENSMUSG00 000046223	plasminogen activator, urokinase receptor Source MGI Symbol Acc MGI 97612
E12	SBM0857412	ENSMUST00000 173805.7	Pou5f1	ENSMUSG00 000024406	POU domain, class 5, transcription factor 1 Source MGI Symbol Acc MGI 101893
F01	SBM0990692	ENSMUST00000 064139.7	Plpp3	ENSMUSG00 000028517	phospholipid phosphatase 3 Source MGI Symbol Acc MGI 1915166
F02	SBM0865243	ENSMUST00000 169040.2	Ppard	ENSMUSG00 000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
F03	SBM0724304	ENSMUST00000 194663.5	Ptch1	ENSMUSG00 000021466	patched 1 Source MGI Symbol Acc MGI 105373
F04	SBM0782881	ENSMUST00000 035065.8	Ptgs2	ENSMUSG00 000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F05	SBM0865204	ENSMUST00000 113571.9	Runx2	ENSMUSG00 000039153	runt related transcription factor 2 Source MGI Symbol Acc MGI 99829
F06	SBM0841878	ENSMUST00000 029625.7	Sfrp2	ENSMUSG00 000027996	secreted frizzled-related protein 2 Source MGI Symbol Acc MGI 108078
F07	SBM0783604	ENSMUST00000 050029.7	Six1	ENSMUSG00 000051367	sine oculis-related homeobox 1 Source MGI Symbol Acc MGI 102780
F08	SBM0921550	ENSMUST00000 001812.4	Smo	ENSMUSG00 000001761	smoothened, frizzled class receptor Source MGI Symbol Acc MGI 108075
F09	SBM0819160	ENSMUST00000 099151.5	Sox2	ENSMUSG00 000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364
F10	SBM1029433	ENSMUST00000 000579.2	Sox9	ENSMUSG00 000000567	SRY (sex determining region Y)-box 9 Source MGI Symbol Acc MGI 98371

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0804890	ENSMUST00000074667.8	T	ENSMUSG0000062327	brachyury, T-box transcription factor T Source MGI Symbol Acc MGI 98472
F12	SBM0803388	ENSMUST00000114982.7	Tcf4	ENSMUSG0000053477	transcription factor 4 Source MGI Symbol Acc MGI 98506
G01	SBM0759929	ENSMUST00000086844.9	Tcf7	ENSMUSG0000000782	transcription factor 7, T cell specific Source MGI Symbol Acc MGI 98507
G02	SBM0729086	ENSMUST00000141743.1	Tcf7l1	ENSMUSG0000055799	transcription factor 7 like 1 (T cell specific, HMG box) Source MGI Symbol Acc MGI 1202876
G03	SBM0875642	ENSMUST00000111657.10	Tcf7l2	ENSMUSG0000024985	transcription factor 7 like 2, T cell specific, HMG box Source MGI Symbol Acc MGI 1202879
G04	SBM1022458	ENSMUST00000003687.7	Tgfb3	ENSMUSG00000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G05	SBM1074906	ENSMUST00000102848.8	Tle1	ENSMUSG0000008305	transducin-like enhancer of split 1 Source MGI Symbol Acc MGI 104636
G06	SBM0689554	ENSMUST00000049089.6	Twist1	ENSMUSG0000035799	twist basic helix-loop-helix transcription factor 1 Source MGI Symbol Acc MGI 98872
G07	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G08	SBM1010994	ENSMUST00000230535.1	Ccn4	ENSMUSG0000005124	cellular communication network factor 4 Source MGI Symbol Acc MGI 1197008
G09	SBM0880728	ENSMUST00000138730.1	Ccn5	ENSMUSG0000027656	cellular communication network factor 5 Source MGI Symbol Acc MGI 1328326
G10	SBM0757599	ENSMUST00000010044.7	Wnt3a	ENSMUSG0000009900	wingless-type MMTV integration site family, member 3A Source MGI Symbol Acc MGI 98956
G11	SBM0893772	ENSMUST00000112272.1	Wnt5a	ENSMUSG0000021994	wingless-type MMTV integration site family, member 5A Source MGI Symbol Acc MGI 98958
G12	SBM0692791	ENSMUST00000108783.3	Wnt9a	ENSMUSG0000000126	wingless-type MMTV integration site family, member 9A Source MGI Symbol Acc MGI 2446084
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	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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