

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

Mouse WNT Signaling Pathway

Cat. no. 249950 SBMM-043ZR

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	Aes	Apc	Axin1	Axin2	Bcl9	Btrc	Ccnd1	Ccnd2	Csnk1a1	Csnk2a1	Ctbp1	Ctnnb1
B	Ctnnbip1	Daam1	Dab2	Dixdc1	Dkk1	Dkk3	Dvl1	Dvl2	Ep300	Fbxw11	Fbxw4	Fgf4
C	Fosl1	Foxn1	Frat1	Frzb	Fzd1	Fzd2	Fzd3	Fzd4	Fzd5	Fzd6	Fzd7	Fzd8
D	Fzd9	Gsk3b	Jun	Kremen1	Lef1	Lrp5	Lrp6	Mapk8	Mmp7	Myc	Nfya1	Nkd1
E	Nlk	Pitx2	Porcn	Ppard	Prickle1	Pygo1	Rhoa	Rhou	Ruvbl1	Sfrp1	Sfrp2	Sfrp4
F	Sox17	Tcf7	Tcf7l1	Tle1	Vangl2	Wif1	Ccn4	Wnt1	Wnt10a	Wnt11	Wnt16	Wnt2
G	Wnt2b	Wnt3	Wnt3a	Wnt4	Wnt5a	Wnt5b	Wnt6	Wnt7a	Wnt7b	Wnt8a	Wnt8b	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	SBM0938229	ENSMUST00000219870.1	Aes	ENSMUSG0000054452	amino-terminal enhancer of split Source MGI Symbol Acc MGI 95806
A02	SBM0782035	ENSMUST00000079362.12	Apc	ENSMUSG0000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A03	SBM0716956	ENSMUST00000168282.2	Axin1	ENSMUSG0000024182	axin 1 Source MGI Symbol Acc MGI 1096327
A04	SBM0714773	ENSMUST00000106711.1	Axin2	ENSMUSG0000000142	axin 2 Source MGI Symbol Acc MGI 1270862
A05	SBM1059154	ENSMUST00000134695.7	Bcl9	ENSMUSG0000038256	B cell CLL/lymphoma 9 Source MGI Symbol Acc MGI 1924828
A06	SBM0704070	ENSMUST00000225662.1	Btrc	ENSMUSG0000025217	beta-transducin repeat containing protein Source MGI Symbol Acc MGI 1338871
A07	SBM0706150	ENSMUST00000093962.4	Ccnd1	ENSMUSG00000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A08	SBM0977018	ENSMUST00000201066.1	Ccnd2	ENSMUSG0000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
A09	SBM1007934	ENSMUST00000165123.7	Csnk1a1	ENSMUSG0000024576	casein kinase 1, alpha 1 Source MGI Symbol Acc MGI 1934950
A10	SBM0956396	ENSMUST00000124791.7	Csnk2a1	ENSMUSG00000074698	casein kinase 2, alpha 1 polypeptide Source MGI Symbol Acc MGI 88543
A11	SBM1023677	ENSMUST00000201372.2	Ctbp1	ENSMUSG0000037373	C-terminal binding protein 1 Source MGI Symbol Acc MGI 1201685
A12	SBM1021462	ENSMUST00000007130.14	Ctnnb1	ENSMUSG0000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B01	SBM0982886	ENSMUST00000030839.12	Ctnnbip1	ENSMUSG0000028988	catenin beta interacting protein 1 Source MGI Symbol Acc MGI 1915756
B02	SBM0718206	ENSMUST00000085299.3	Daam1	ENSMUSG00000034574	dishevelled associated activator of morphogenesis 1 Source MGI Symbol Acc MGI 1914596
B03	SBM0997637	ENSMUST00000080880.11	Dab2	ENSMUSG0000022150	disabled 2, mitogen-responsive phosphoprotein Source MGI Symbol Acc MGI 109175
B04	SBM0720939	ENSMUST00000119449.7	Dixdc1	ENSMUSG00000032064	DIX domain containing 1 Source MGI Symbol Acc MGI 2679721
B05	SBM0673405	ENSMUST00000025803.8	Dkk1	ENSMUSG0000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
B06	SBM0939228	ENSMUST00000033036.6	Dkk3	ENSMUSG0000030772	dickkopf WNT signaling pathway inhibitor 3 Source MGI Symbol Acc MGI 1354952
B07	SBM1047833	ENSMUST00000156997.7	Dvl1	ENSMUSG0000029071	dishevelled segment polarity protein 1 Source MGI Symbol Acc MGI 94941
B08	SBM0959835	ENSMUST00000135422.1	Dvl2	ENSMUSG0000020888	dishevelled segment polarity protein 2 Source MGI Symbol Acc MGI 106613
B09	SBM1065431	ENSMUST00000190035.1	Ep300	ENSMUSG00000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
B10	SBM1077549	ENSMUST00000109366.7	Fbxw11	ENSMUSG0000020271	F-box and WD-40 domain protein 11 Source MGI Symbol Acc MGI 2144023
B11	SBM0899151	ENSMUST00000160003.7	Fbxw4	ENSMUSG0000040913	F-box and WD-40 domain protein 4 Source MGI Symbol Acc MGI 1354698
B12	SBM0696463	ENSMUST00000060336.4	Fgf4	ENSMUSG0000050917	fibroblast growth factor 4 Source MGI Symbol Acc MGI 95518
C01	SBM0970102	ENSMUST00000235958.1	Fosl1	ENSMUSG0000024912	fos-like antigen 1 Source MGI Symbol Acc MGI 107179
C02	SBM0823231	ENSMUST00000108294.1	Foxn1	ENSMUSG0000002057	forkhead box N1 Source MGI Symbol Acc MGI 102949
C03	SBM1047484	ENSMUST00000087155.4	Frat1	ENSMUSG0000067199	frequently rearranged in advanced T cell lymphomas Source MGI Symbol Acc MGI 109450
C04	SBM0847786	ENSMUST00000028389.3	Frzb	ENSMUSG0000027004	frizzled-related protein Source MGI Symbol Acc MGI 892032
C05	SBM0714051	ENSMUST00000054294.6	Fzd1	ENSMUSG0000044674	frizzled class receptor 1 Source MGI Symbol Acc MGI 1196625
C06	SBM0938001	ENSMUST00000057893.6	Fzd2	ENSMUSG0000050288	frizzled class receptor 2 Source MGI Symbol Acc MGI 1888513
C07	SBM0964179	ENSMUST00000127272.1	Fzd3	ENSMUSG0000007989	frizzled class receptor 3 Source MGI Symbol Acc MGI 108476
C08	SBM0730931	ENSMUST00000058755.4	Fzd4	ENSMUSG0000049791	frizzled class receptor 4 Source MGI Symbol Acc MGI 108520
C09	SBM0841457	ENSMUST00000063982.6	Fzd5	ENSMUSG0000045005	frizzled class receptor 5 Source MGI Symbol Acc MGI 108571
C10	SBM1051469	ENSMUST00000179165.8	Fzd6	ENSMUSG0000022297	frizzled class receptor 6 Source MGI Symbol Acc MGI 108474
		ENSMUST000000		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	SBM1075164	ENSMUST00000041080.6	Fzd8	ENSMUSG0000036904	frizzled class receptor 8 Source MGI Symbol Acc MGI 108460
D01	SBM1068165	ENSMUST00000062572.2	Fzd9	ENSMUSG0000049551	frizzled class receptor 9 Source MGI Symbol Acc MGI 1313278
D02	SBM0862470	ENSMUST00000132057.1	Gsk3b	ENSMUSG0000022812	glycogen synthase kinase 3 beta Source MGI Symbol Acc MGI 1861437
D03	SBM1045409	ENSMUST00000107094.1	Jun	ENSMUSG0000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D04	SBM0794572	ENSMUST00000020662.14	Kremen1	ENSMUSG0000020393	kringle containing transmembrane protein 1 Source MGI Symbol Acc MGI 1933988
D05	SBM1041904	ENSMUST00000198624.1	Lef1	ENSMUSG0000027985	lymphoid enhancer binding factor 1 Source MGI Symbol Acc MGI 96770
D06	SBM0676519	ENSMUST00000177294.1	Lrp5	ENSMUSG0000024913	low density lipoprotein receptor-related protein 5 Source MGI Symbol Acc MGI 1278315
D07	SBM0842955	ENSMUST00000203773.1	Lrp6	ENSMUSG0000030201	low density lipoprotein receptor-related protein 6 Source MGI Symbol Acc MGI 1298218
D08	SBM0984642	ENSMUST00000132379.1	Mapk8	ENSMUSG0000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D09	SBM0709342	ENSMUST00000018767.7	Mmp7	ENSMUSG0000018623	matrix metalloproteinase 7 Source MGI Symbol Acc MGI 103189
D10	SBM0987162	ENSMUST00000159338.1	Myc	ENSMUSG0000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
D11	SBM1038763	ENSMUST00000078049.11	Nfatc1	ENSMUSG0000033016	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 Source MGI Symbol Acc MGI 102469
D12	SBM0914228	ENSMUST00000169179.2	Nkd1	ENSMUSG0000031661	naked cuticle 1 Source MGI Symbol Acc MGI 2135954
E01	SBM0745180	ENSMUST00000170394.1	Nlk	ENSMUSG0000017376	nemo like kinase Source MGI Symbol Acc MGI 1201387
E02	SBM1066657	ENSMUST00000042587.11	Pitx2	ENSMUSG0000028023	paired-like homeodomain transcription factor 2 Source MGI Symbol Acc MGI 109340
E03	SBM0833877	ENSMUST00000122943.1	Porcn	ENSMUSG0000031169	porcupine O-acyltransferase Source MGI Symbol Acc MGI 1890212
E04	SBM0865243	ENSMUST00000169040.2	Ppard	ENSMUSG0000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
E05	SBM0901021	ENSMUST00000048982.10	Prickle1	ENSMUSG0000036158	prickle planar cell polarity protein 1 Source MGI Symbol Acc MGI 1916034
E06	SBM0684063	ENSMUST00000038489.5	Pygo1	ENSMUSG0000034910	pygopus 1 Source MGI Symbol Acc MGI 1919385
E07	SBM0943773	ENSMUST00000194701.5	Rhoa	ENSMUSG0000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
E08	SBM0825259	ENSMUST00000136615.1	Rhou	ENSMUSG0000039960	ras homolog family member U Source MGI Symbol Acc MGI 1916831
E09	SBM0983977	ENSMUST00000129035.1	Ruvbl1	ENSMUSG0000030079	RuvB-like protein 1 Source MGI Symbol Acc MGI 1928760
E10	SBM0742478	ENSMUST00000033952.7	Sfrp1	ENSMUSG0000031548	secreted frizzled-related protein 1 Source MGI Symbol Acc MGI 892014
E11	SBM0841878	ENSMUST00000029625.7	Sfrp2	ENSMUSG0000027996	secreted frizzled-related protein 2 Source MGI Symbol Acc MGI 108078
E12	SBM1011565	ENSMUST00000221810.1	Sfrp4	ENSMUSG0000021319	secreted frizzled-related protein 4 Source MGI Symbol Acc MGI 892010
F01	SBM0762251	ENSMUST00000191647.1	Sox17	ENSMUSG0000025902	SRY (sex determining region Y)-box 17 Source MGI Symbol Acc MGI 107543
F02	SBM0759929	ENSMUST00000086844.9	Tcf7	ENSMUSG0000000782	transcription factor 7, T cell specific Source MGI Symbol Acc MGI 98507
F03	SBM0729086	ENSMUST00000141743.1	Tcf7l1	ENSMUSG0000055799	transcription factor 7 like 1 (T cell specific, HMG box) Source MGI Symbol Acc MGI 1202876
F04	SBM1074906	ENSMUST00000102848.8	Tle1	ENSMUSG0000008305	transducin-like enhancer of split 1 Source MGI Symbol Acc MGI 104636
F05	SBM1043500	ENSMUST00000111263.8	Vangl2	ENSMUSG0000026556	VANGL planar cell polarity 2 Source MGI Symbol Acc MGI 2135272
F06	SBM0873592	ENSMUST00000020439.10	Wif1	ENSMUSG0000020218	Wnt inhibitory factor 1 Source MGI Symbol Acc MGI 1344332
F07	SBM1010994	ENSMUST00000230535.1	Ccn4	ENSMUSG0000005124	cellular communication network factor 4 Source MGI Symbol Acc MGI 1197008
F08	SBM0828761	ENSMUST00000023734.7	Wnt1	ENSMUSG0000022997	wingless-type MMTV integration site family, member 1 Source MGI Symbol Acc MGI 98953
F09	SBM0830314	ENSMUST00000006718.14	Wnt10a	ENSMUSG0000026167	wingless-type MMTV integration site family, member 10A Source MGI Symbol Acc MGI 108071
F10	SBM0972544	ENSMUST00000067495.8	Wnt11	ENSMUSG0000015957	wingless-type MMTV integration site family, member 11 Source MGI Symbol Acc MGI 101948

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1035075	ENSMUST00000031681.9	Wnt16	ENSMUSG00000029671	wingless-type MMTV integration site family, member 16 Source MGI Symbol Acc MGI 2136018
F12	SBM0774504	ENSMUST00000010941.5	Wnt2	ENSMUSG00000010797	wingless-type MMTV integration site family, member 2 Source MGI Symbol Acc MGI 98954
G01	SBM1017184	ENSMUST00000029429.5	Wnt2b	ENSMUSG00000027840	wingless-type MMTV integration site family, member 2B Source MGI Symbol Acc MGI 1261834
G02	SBM1011082	ENSMUST00000000127.5	Wnt3	ENSMUSG00000000125	wingless-type MMTV integration site family, member 3 Source MGI Symbol Acc MGI 98955
G03	SBM0757599	ENSMUST00000010044.7	Wnt3a	ENSMUSG00000009900	wingless-type MMTV integration site family, member 3A Source MGI Symbol Acc MGI 98956
G04	SBM0985316	ENSMUST00000045747.4	Wnt4	ENSMUSG00000036856	wingless-type MMTV integration site family, member 4 Source MGI Symbol Acc MGI 98957
G05	SBM0893772	ENSMUST000000112272.1	Wnt5a	ENSMUSG00000021994	wingless-type MMTV integration site family, member 5A Source MGI Symbol Acc MGI 98958
G06	SBM0831789	ENSMUST000000118120.7	Wnt5b	ENSMUSG00000030170	wingless-type MMTV integration site family, member 5B Source MGI Symbol Acc MGI 98959
G07	SBM0965462	ENSMUST000000189544.1	Wnt6	ENSMUSG00000033227	wingless-type MMTV integration site family, member 6 Source MGI Symbol Acc MGI 98960
G08	SBM0915677	ENSMUST000000133092.2	Wnt7a	ENSMUSG00000030093	wingless-type MMTV integration site family, member 7A Source MGI Symbol Acc MGI 98961
G09	SBM1050831	ENSMUST000000167968.8	Wnt7b	ENSMUSG00000022382	wingless-type MMTV integration site family, member 7B Source MGI Symbol Acc MGI 98962
G10	SBM1020947	ENSMUST000000012426.2	Wnt8a	ENSMUSG00000012282	wingless-type MMTV integration site family, member 8A Source MGI Symbol Acc MGI 107924
G11	SBM1089911	ENSMUST000000041163.4	Wnt8b	ENSMUSG00000036961	wingless-type MMTV integration site family, member 8B Source MGI Symbol Acc MGI 109485
G12	SBM0692791	ENSMUST000000108783.3	Wnt9a	ENSMUSG00000000126	wingless-type MMTV integration site family, member 9A Source MGI Symbol Acc MGI 2446084
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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