

QuantiNova® LNA® PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Mouse Notch Signaling Pathway

Cat. no. 249950 SBMM-059ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Adam10	Adam17	Aes	Axin1	Cbl	Ccnd1	Ccne1	Cd44	Cdkn1a	Cflar	Chuk	Ctnnb1
B	Dll1	Dll3	Dll4	Dtx1	Ep300	ErbB2	Vegfd	Fos	Fosl1	Fzd2	Fzd3	Fzd4
C	Fzd5	Fzd7	Gli1	Gsk3b	Hes1	Hes5	Hey1	Hey2	Heyl	Hoxb4	Hr	Id1
D	Ifng	Il17b	Il2ra	Il6st	Jag1	Jag2	Krt1	Lfng	Lmo2	Lor	Lrp5	Maml1
E	Maml2	Mfng	Mmp7	Ncor2	Ncstn	Neur1a	Nfkb1	Nfkb2	Notch1	Notch2	Notch3	Notch4
F	Nr4a2	Numb	Pax5	Pofut1	Pparg	Psen1	Psen2	Psenen	Ptcra	Rbpjl	Rfng	Runx1
G	Sell1	Shh	Smo	Snw1	Stat6	Stil	Sufu	Supt6	Tle1	Ccn4	Wnt11	Zic2
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	SBM0691624	ENSMUST00000067880.12	Adam10	ENSMUSG0000054693	a disintegrin and metallopeptidase domain 10 Source MGI Symbol Acc MGI 109548
A02	SBM1051971	ENSMUST00000142092.1	Adam17	ENSMUSG0000052593	a disintegrin and metallopeptidase domain 17 Source MGI Symbol Acc MGI 1096335
A03	SBM0938229	ENSMUST00000219870.1	Aes	ENSMUSG0000054452	amino-terminal enhancer of split Source MGI Symbol Acc MGI 95806
A04	SBM0716956	ENSMUST00000168282.2	Axin1	ENSMUSG0000024182	axin 1 Source MGI Symbol Acc MGI 1096327
A05	SBM0972680	ENSMUST00000037644.7	Cbl	ENSMUSG0000034342	Casitas B-lineage lymphoma Source MGI Symbol Acc MGI 88279
A06	SBM0706150	ENSMUST00000093962.4	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A07	SBM0866938	ENSMUST00000124979.2	Ccne1	ENSMUSG0000002068	cyclin E1 Source MGI Symbol Acc MGI 88316
A08	SBM0860996	ENSMUST00000111194.7	Cd44	ENSMUSG0000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
A09	SBM1034022	ENSMUST00000023829.7	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
A10	SBM0727764	ENSMUST00000124567.1	Cflar	ENSMUSG0000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
A11	SBM1034080	ENSMUST00000026217.10	Chuk	ENSMUSG0000025199	conserved helix-loop-helix ubiquitous kinase Source MGI Symbol Acc MGI 99484
A12	SBM1021462	ENSMUST00000007130.14	Ctnnb1	ENSMUSG0000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B01	SBM0898031	ENSMUST00000124196.1	Dll1	ENSMUSG0000014773	delta like canonical Notch ligand 1 Source MGI Symbol Acc MGI 104659
B02	SBM0779744	ENSMUST00000108315.3	Dll3	ENSMUSG0000003436	delta like canonical Notch ligand 3 Source MGI Symbol Acc MGI 1096877
B03	SBM0960057	ENSMUST00000102517.3	Dll4	ENSMUSG0000027314	delta like canonical Notch ligand 4 Source MGI Symbol Acc MGI 1859388
B04	SBM0872158	ENSMUST00000145174.7	Dtx1	ENSMUSG0000029603	deltex 1, E3 ubiquitin ligase Source MGI Symbol Acc MGI 1352744
B05	SBM1065431	ENSMUST00000190035.1	Ep300	ENSMUSG0000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
B06	SBM0761323	ENSMUST00000136032.1	ErbB2	ENSMUSG0000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
B07	SBM0809039	ENSMUST00000124851.1	VegfD	ENSMUSG0000031380	vascular endothelial growth factor D Source MGI Symbol Acc MGI 108037
B08	SBM0977461	ENSMUST00000134311.1	Fos	ENSMUSG0000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
B09	SBM0970102	ENSMUST00000235958.1	Fos1	ENSMUSG0000024912	fos-like antigen 1 Source MGI Symbol Acc MGI 107179
B10	SBM0938001	ENSMUST00000057893.6	Fzd2	ENSMUSG0000050288	frizzled class receptor 2 Source MGI Symbol Acc MGI 1888513
B11	SBM0964179	ENSMUST00000127272.1	Fzd3	ENSMUSG0000007989	frizzled class receptor 3 Source MGI Symbol Acc MGI 108476
B12	SBM0730931	ENSMUST00000058755.4	Fzd4	ENSMUSG0000049791	frizzled class receptor 4 Source MGI Symbol Acc MGI 108520
C01	SBM0841457	ENSMUST00000063982.6	Fzd5	ENSMUSG0000045005	frizzled class receptor 5 Source MGI Symbol Acc MGI 108571
C02	SBM1055854	ENSMUST00000114246.3	Fzd7	ENSMUSG0000041075	frizzled class receptor 7 Source MGI Symbol Acc MGI 108570
C03	SBM0738831	ENSMUST00000219671.1	Gli1	ENSMUSG0000025407	GLI-Kruppel family member GLI1 Source MGI Symbol Acc MGI 95727
C04	SBM0862470	ENSMUST00000132057.1	Gsk3b	ENSMUSG0000022812	glycogen synthase kinase 3 beta Source MGI Symbol Acc MGI 1861437
C05	SBM0965557	ENSMUST00000023171.7	Hes1	ENSMUSG0000022528	hes family bHLH transcription factor 1 Source MGI Symbol Acc MGI 104853
C06	SBM1008430	ENSMUST00000151480.1	Hes5	ENSMUSG0000048001	hes family bHLH transcription factor 5 Source MGI Symbol Acc MGI 104876
C07	SBM0693801	ENSMUST00000192102.1	Hey1	ENSMUSG0000040289	hairly/enhancer-of-split related with YRPW motif 1 Source MGI Symbol Acc MGI 1341800
C08	SBM0700946	ENSMUST00000019924.8	Hey2	ENSMUSG0000019789	hairly/enhancer-of-split related with YRPW motif 2 Source MGI Symbol Acc MGI 1341884
C09	SBM0821276	ENSMUST00000127172.1	Heyl	ENSMUSG0000032744	hairly/enhancer-of-split related with YRPW motif-like Source MGI Symbol Acc MGI 1860511
C10	SBM0995187	ENSMUST00000049241.8	HoxB4	ENSMUSG0000038692	homeobox B4 Source MGI Symbol Acc MGI 96185
		ENSMUST000000		ENSMUSG00	lysine demethylase and nuclear receptor corepressor Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0736707	161069.7	Hr	000022096	MGI 96223
C12	SBM0688367	ENSMUST00000109824.1	Id1	ENSMUSG0000042745	inhibitor of DNA binding 1 Source MGI Symbol Acc MGI 96396
D01	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG00000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D02	SBM0707381	ENSMUST00000235713.1	Il17b	ENSMUSG00000024578	interleukin 17B Source MGI Symbol Acc MGI 1928397
D03	SBM1067326	ENSMUST00000028111.5	Il2ra	ENSMUSG00000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
D04	SBM0823451	ENSMUST00000183829.7	Il6st	ENSMUSG00000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
D05	SBM0986327	ENSMUST00000028735.7	Jag1	ENSMUSG00000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
D06	SBM0991172	ENSMUST00000221696.1	Jag2	ENSMUSG0000002799	jagged 2 Source MGI Symbol Acc MGI 1098270
D07	SBM1036235	ENSMUST00000230798.1	Krt1	ENSMUSG0000046834	keratin 1 Source MGI Symbol Acc MGI 96698
D08	SBM1047216	ENSMUST00000200626.4	Lfng	ENSMUSG00000029570	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase Source MGI Symbol Acc MGI 1095413
D09	SBM0674052	ENSMUST00000111140.2	Lmo2	ENSMUSG00000032698	LIM domain only 2 Source MGI Symbol Acc MGI 102811
D10	SBM0775525	ENSMUST00000058150.7	Lor	ENSMUSG00000043165	loricrin Source MGI Symbol Acc MGI 96816
D11	SBM0676519	ENSMUST00000177294.1	Lrp5	ENSMUSG00000024913	low density lipoprotein receptor-related protein 5 Source MGI Symbol Acc MGI 1278315
D12	SBM1005699	ENSMUST00000135868.7	Maml1	ENSMUSG00000050567	mastermind like transcriptional coactivator 1 Source MGI Symbol Acc MGI 1890504
E01	SBM0861339	ENSMUST00000177755.2	Maml2	ENSMUSG00000031925	mastermind like transcriptional coactivator 2 Source MGI Symbol Acc MGI 2389460
E02	SBM0733227	ENSMUST00000123518.7	Mfng	ENSMUSG0000018169	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase Source MGI Symbol Acc MGI 1095404
E03	SBM0709342	ENSMUST00000018767.7	Mmp7	ENSMUSG0000018623	matrix metalloproteinase 7 Source MGI Symbol Acc MGI 103189
E04	SBM0944158	ENSMUST00000111402.8	Ncor2	ENSMUSG00000029478	nuclear receptor co-repressor 2 Source MGI Symbol Acc MGI 1337080
E05	SBM0957404	ENSMUST00000003550.10	Ncstn	ENSMUSG0000003458	nicastatin Source MGI Symbol Acc MGI 1891700
E06	SBM0770112	ENSMUST00000111808.10	Neur1a	ENSMUSG0000006435	neuralized E3 ubiquitin protein ligase 1A Source MGI Symbol Acc MGI 1334263
E07	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG00000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E08	SBM0970553	ENSMUST00000237761.1	Nfkb2	ENSMUSG00000025225	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100 Source MGI Symbol Acc MGI 1099800
E09	SBM1060528	ENSMUST00000132820.1	Notch1	ENSMUSG00000026923	notch 1 Source MGI Symbol Acc MGI 97363
E10	SBM0724048	ENSMUST00000079812.7	Notch2	ENSMUSG00000027878	notch 2 Source MGI Symbol Acc MGI 97364
E11	SBM0987360	ENSMUST00000087723.4	Notch3	ENSMUSG00000038146	notch 3 Source MGI Symbol Acc MGI 99460
E12	SBM0822219	ENSMUST00000174707.1	Notch4	ENSMUSG0000015468	notch 4 Source MGI Symbol Acc MGI 107471
F01	SBM1012315	ENSMUST00000183542.7	Nr4a2	ENSMUSG00000026826	nuclear receptor subfamily 4, group A, member 2 Source MGI Symbol Acc MGI 1352456
F02	SBM0789482	ENSMUST00000155112.7	Numb	ENSMUSG00000021224	NUMB endocytic adaptor protein Source MGI Symbol Acc MGI 107423
F03	SBM1071355	ENSMUST00000102932.9	Pax5	ENSMUSG0000014030	paired box 5 Source MGI Symbol Acc MGI 97489
F04	SBM0871996	ENSMUST00000109794.1	Pofut1	ENSMUSG0000046020	protein O-fucosyltransferase 1 Source MGI Symbol Acc MGI 2153207
F05	SBM1015614	ENSMUST00000205213.2	Pparg	ENSMUSG0000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F06	SBM0767761	ENSMUST00000101225.1	Psen1	ENSMUSG0000019969	presenilin 1 Source MGI Symbol Acc MGI 1202717
F07	SBM0822272	ENSMUST00000130711.7	Psen2	ENSMUSG0000010609	presenilin 2 Source MGI Symbol Acc MGI 109284
F08	SBM1041938	ENSMUST00000207031.1	Psenen	ENSMUSG00000036835	presenilin enhancer gamma secretase subunit Source MGI Symbol Acc MGI 1913590
F09	SBM0874223	ENSMUST00000041012.8	Ptcr	ENSMUSG00000036858	pre T cell antigen receptor alpha Source MGI Symbol Acc MGI 104857
F10	SBM0676122	ENSMUST00000017151.1	Rbpjl	ENSMUSG0000017007	recombination signal binding protein for immunoglobulin kappa J region-like Source MGI Symbol Acc MGI 1196616

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1035560	ENSMUST00000026156.7	Rfng	ENSMUSG00000025158	RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase Source MGI Symbol Acc MGI 894275
F12	SBM0812229	ENSMUST00000168195.7	Runx1	ENSMUSG00000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
G01	SBM0968519	ENSMUST00000021347.11	Sel1l	ENSMUSG00000020964	sel-1 suppressor of lin-12-like (C. elegans) Source MGI Symbol Acc MGI 1329016
G02	SBM0959314	ENSMUST00000002708.4	Shh	ENSMUSG0000002633	sonic hedgehog Source MGI Symbol Acc MGI 98297
G03	SBM0921550	ENSMUST00000001812.4	Smo	ENSMUSG0000001761	smoothened, frizzled class receptor Source MGI Symbol Acc MGI 108075
G04	SBM0713138	ENSMUST00000021428.8	Snw1	ENSMUSG00000021039	SNW domain containing 1 Source MGI Symbol Acc MGI 1913604
G05	SBM0912507	ENSMUST00000156231.1	Stat6	ENSMUSG0000002147	signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034
G06	SBM0993510	ENSMUST00000130401.1	Stil	ENSMUSG00000028718	Scl/Tal1 interrupting locus Source MGI Symbol Acc MGI 107477
G07	SBM0679226	ENSMUST00000039922.12	Sufu	ENSMUSG00000025231	SUFU negative regulator of hedgehog signaling Source MGI Symbol Acc MGI 1345643
G08	SBM0834195	ENSMUST00000108314.2	Supt6	ENSMUSG0000002052	suppressor of Ty 6 Source MGI Symbol Acc MGI 107726
G09	SBM1074906	ENSMUST00000102848.8	Tle1	ENSMUSG0000008305	transducin-like enhancer of split 1 Source MGI Symbol Acc MGI 104636
G10	SBM1010994	ENSMUST00000230535.1	Ccn4	ENSMUSG0000005124	cellular communication network factor 4 Source MGI Symbol Acc MGI 1197008
G11	SBM0972544	ENSMUST00000067495.8	Wnt11	ENSMUSG00000015957	wingless-type MMTV integration site family, member 11 Source MGI Symbol Acc MGI 101948
G12	SBM1015964	ENSMUST00000075888.5	Zic2	ENSMUSG00000061524	zinc finger protein of the cerebellum 2 Source MGI Symbol Acc MGI 106679
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	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.

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.