

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

Mouse Stem Cell Signaling

Cat. no. 249955 UPMM-047ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light 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 Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Acvr1	Acvr1b	Acvr1c	Acvr2a	Acvr2b	Acvr11	Amhr2	Bcl9	Bcl9l	Bmpr1a	Bmpr1b	Bmpr2
B	Cdx2	Crebbp	Ctnnb1	E2f5	Eng	Ep300	Fgfr1	Fgfr2	Fgfr3	Fgfr4	Fzd1	Fzd2
C	Fzd3	Fzd4	Fzd5	Fzd6	Fzd7	Fzd8	Fzd9	Gli1	Gli2	Gli3	Il6st	Lef1
D	Lifr	Lrp5	Lrp6	Ltbp1	Ltbp2	Ltbp3	Ltbp4	Ncstn	Nfat5	Nfatc1	Nfatc2	Nfatc3
E	Nfatc4	Notch1	Notch2	Notch3	Notch4	Psen1	Psen2	Psenen	Ptch1	Disp3	Pygo2	Rbl1
F	Rbl2	Rbpil	Rgma	Smad1	Smad2	Smad3	Smad4	Smad5	Smad6	Smad7	Smad9	Smo
G	Sp1	Stat3	Sufu	Tcf7	Tcf7l1	Tcf7l2	Tgfb1	Tgfb2	Tgfb3	Tgfb3p1	Vangl2	Zeb2
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM071633 1	ENSMUST00000 112599.7	Acvr1	ENSMUSG00 000026836	activin A receptor, type 1 Source MGI Symbol Acc MGI 87911
A02	UPFM066829 2	ENSMUST00000 000544.11	Acvr1b	ENSMUSG00 000000532	activin A receptor, type 1B Source MGI Symbol Acc MGI 1338944
A03	UPFM076969 8	ENSMUST00000 112607.2	Acvr1c	ENSMUSG00 000026834	activin A receptor, type IC Source MGI Symbol Acc MGI 2661081
A04	UPFM093368 1	ENSMUST00000 156681.1	Acvr2a	ENSMUSG00 000052155	activin receptor IIA Source MGI Symbol Acc MGI 102806
A05	UPFM084577 1	ENSMUST00000 165044.2	Acvr2b	ENSMUSG00 000061393	activin receptor IIB Source MGI Symbol Acc MGI 87912
A06	UPFM068818 0	ENSMUST00000 121718.7	Acvr1l	ENSMUSG00 000000530	activin A receptor, type II-like 1 Source MGI Symbol Acc MGI 1338946
A07	UPFM082232 7	ENSMUST00000 023809.10	Amhr2	ENSMUSG00 000023047	anti-Mullerian hormone type 2 receptor Source MGI Symbol Acc MGI 105062
A08	UPFM061815 8	ENSMUST00000 196586.1	Bcl9	ENSMUSG00 000038256	B cell CLL/lymphoma 9 Source MGI Symbol Acc MGI 1924828
A09	UPFM065219 5	ENSMUST00000 218913.1	Bcl9l	ENSMUSG00 000063382	B cell CLL/lymphoma 9-like Source MGI Symbol Acc MGI 1933114
A10	UPFM083222 2	ENSMUST00000 165280.7	Bmpr1a	ENSMUSG00 000021796	bone morphogenetic protein receptor, type 1A Source MGI Symbol Acc MGI 1338938
A11	UPFM087635 6	ENSMUST00000 106232.7	Bmpr1b	ENSMUSG00 000052430	bone morphogenetic protein receptor, type 1B Source MGI Symbol Acc MGI 107191
A12	UPFM080425 7	ENSMUST00000 190659.1	Bmpr2	ENSMUSG00 000067336	bone morphogenetic protein receptor, type II (serine/threonine kinase) Source MGI Symbol Acc MGI 1095407
B01	UPFM064323 4	ENSMUST00000 031650.3	Cdx2	ENSMUSG00 000029646	caudal type homeobox 2 Source MGI Symbol Acc MGI 88361
B02	UPFM086770 7	ENSMUST00000 206098.1	Crebbp	ENSMUSG00 000022521	CREB binding protein Source MGI Symbol Acc MGI 1098280
B03	UPFM098586 3	ENSMUST00000 154356.7	Ctnnb1	ENSMUSG00 000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B04	UPFM086677 9	ENSMUST00000 165922.2	E2f5	ENSMUSG00 000027552	E2F transcription factor 5 Source MGI Symbol Acc MGI 105091
B05	UPFM062460 8	ENSMUST00000 009705.13	Eng	ENSMUSG00 000026814	endoglin Source MGI Symbol Acc MGI 95392
B06	UPFM063958 2	ENSMUST00000 185967.2	Ep300	ENSMUSG00 000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
B07	UPFM073988 3	ENSMUST00000 167764.1	Fgfr1	ENSMUSG00 000031565	fibroblast growth factor receptor 1 Source MGI Symbol Acc MGI 95522
B08	UPFM065842 4	ENSMUST00000 117089.7	Fgfr2	ENSMUSG00 000030849	fibroblast growth factor receptor 2 Source MGI Symbol Acc MGI 95523
B09	UPFM098143 7	ENSMUST00000 202791.2	Fgfr3	ENSMUSG00 000054252	fibroblast growth factor receptor 3 Source MGI Symbol Acc MGI 95524
B10	UPFM093133 4	ENSMUST00000 005452.5	Fgfr4	ENSMUSG00 000005320	fibroblast growth factor receptor 4 Source MGI Symbol Acc MGI 95525
B11	UPFM078390 1	ENSMUST00000 054294.6	Fzd1	ENSMUSG00 000044674	frizzled class receptor 1 Source MGI Symbol Acc MGI 1196625
B12	UPFM061965 1	ENSMUST00000 057893.6	Fzd2	ENSMUSG00 000050288	frizzled class receptor 2 Source MGI Symbol Acc MGI 1888513
C01	UPFM100532 8	ENSMUST00000 127272.1	Fzd3	ENSMUSG00 000007989	frizzled class receptor 3 Source MGI Symbol Acc MGI 108476
C02	UPFM089382 6	ENSMUST00000 058755.4	Fzd4	ENSMUSG00 000049791	frizzled class receptor 4 Source MGI Symbol Acc MGI 108520
C03	UPFM078700 2	ENSMUST00000 063982.6	Fzd5	ENSMUSG00 000045005	frizzled class receptor 5 Source MGI Symbol Acc MGI 108571
C04	UPFM068078 4	ENSMUST00000 022906.7	Fzd6	ENSMUSG00 000022297	frizzled class receptor 6 Source MGI Symbol Acc MGI 108474
C05	UPFM068124 6	ENSMUST00000 114246.3	Fzd7	ENSMUSG00 000041075	frizzled class receptor 7 Source MGI Symbol Acc MGI 108570
C06	UPFM091572 9	ENSMUST00000 041080.6	Fzd8	ENSMUSG00 000036904	frizzled class receptor 8 Source MGI Symbol Acc MGI 108460
C07	UPFM075151 2	ENSMUST00000 062572.2	Fzd9	ENSMUSG00 000049551	frizzled class receptor 9 Source MGI Symbol Acc MGI 1313278
C08	UPFM096364 2	ENSMUST00000 218236.1	Gli1	ENSMUSG00 000025407	GLI-Kruppel family member GLI1 Source MGI Symbol Acc MGI 95727
C09	UPFM068465 5	ENSMUST00000 161056.7	Gli2	ENSMUSG00 000048402	GLI-Kruppel family member GLI2 Source MGI Symbol Acc MGI 95728
C10	UPFM097283 2	ENSMUST00000 141194.7	Gli3	ENSMUSG00 000021318	GLI-Kruppel family member GLI3 Source MGI Symbol Acc MGI 95729
	UPFM100226	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	184445.7	Il6st	000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
C12	UPFM0802189	ENSMUST00000136147.7	Lef1	ENSMUSG0000027985	lymphoid enhancer binding factor 1 Source MGI Symbol Acc MGI 96770
D01	UPFM0959220	ENSMUST00000171588.1	Lifr	ENSMUSG0000054263	LIF receptor alpha Source MGI Symbol Acc MGI 96788
D02	UPFM0891092	ENSMUST00000177294.1	Lrp5	ENSMUSG0000024913	low density lipoprotein receptor-related protein 5 Source MGI Symbol Acc MGI 1278315
D03	UPFM0741627	ENSMUST00000126836.3	Lrp6	ENSMUSG0000030201	low density lipoprotein receptor-related protein 6 Source MGI Symbol Acc MGI 1298218
D04	UPFM0619560	ENSMUST00000135750.1	Ltbp1	ENSMUSG0000001870	latent transforming growth factor beta binding protein 1 Source MGI Symbol Acc MGI 109151
D05	UPFM0756787	ENSMUST00000002073.12	Ltbp2	ENSMUSG0000002020	latent transforming growth factor beta binding protein 2 Source MGI Symbol Acc MGI 99502
D06	UPFM0965789	ENSMUST00000237280.1	Ltbp3	ENSMUSG0000024940	latent transforming growth factor beta binding protein 3 Source MGI Symbol Acc MGI 1101355
D07	UPFM0736145	ENSMUST00000118961.2	Ltbp4	ENSMUSG0000040488	latent transforming growth factor beta binding protein 4 Source MGI Symbol Acc MGI 1321395
D08	UPFM0831361	ENSMUST00000142825.1	Ncstn	ENSMUSG0000003458	nicastrin Source MGI Symbol Acc MGI 1891700
D09	UPFM0794664	ENSMUST00000125721.7	Nfat5	ENSMUSG0000003847	nuclear factor of activated T cells 5 Source MGI Symbol Acc MGI 1859333
D10	UPFM0955881	ENSMUST00000170905.8	Nfatc1	ENSMUSG0000033016	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 Source MGI Symbol Acc MGI 102469
D11	UPFM0805682	ENSMUST00000099067.9	Nfatc2	ENSMUSG0000027544	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2 Source MGI Symbol Acc MGI 102463
D12	UPFM0660897	ENSMUST00000109308.2	Nfatc3	ENSMUSG0000031902	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3 Source MGI Symbol Acc MGI 103296
E01	UPFM0988158	ENSMUST00000024179.5	Nfatc4	ENSMUSG0000023411	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4 Source MGI Symbol Acc MGI 1920431
E02	UPFM0795987	ENSMUST00000126872.7	Notch1	ENSMUSG0000026923	notch 1 Source MGI Symbol Acc MGI 97363
E03	UPFM0935665	ENSMUST00000079812.7	Notch2	ENSMUSG0000027878	notch 2 Source MGI Symbol Acc MGI 97364
E04	UPFM0716399	ENSMUST00000236544.1	Notch3	ENSMUSG0000038146	notch 3 Source MGI Symbol Acc MGI 99460
E05	UPFM0722825	ENSMUST00000151654.7	Notch4	ENSMUSG0000015468	notch 4 Source MGI Symbol Acc MGI 107471
E06	UPFM0916760	ENSMUST00000101225.1	Psen1	ENSMUSG0000019969	presenilin 1 Source MGI Symbol Acc MGI 1202717
E07	UPFM0638127	ENSMUST00000111106.7	Psen2	ENSMUSG0000010609	presenilin 2 Source MGI Symbol Acc MGI 109284
E08	UPFM0629600	ENSMUST00000207031.1	Psenen	ENSMUSG0000036835	presenilin enhancer gamma secretase subunit Source MGI Symbol Acc MGI 1913590
E09	UPFM0740121	ENSMUST00000194663.5	Ptch1	ENSMUSG0000021466	patched 1 Source MGI Symbol Acc MGI 105373
E10	UPFM0831751	ENSMUST00000143851.1	Disp3	ENSMUSG0000041544	dispatched RND transporter family member 3 Source MGI Symbol Acc MGI 2444403
E11	UPFM0626032	ENSMUST00000133680.1	Pygo2	ENSMUSG0000047824	pygopus 2 Source MGI Symbol Acc MGI 1916161
E12	UPFM0891940	ENSMUST00000154721.7	Rbl1	ENSMUSG0000027641	RB transcriptional corepressor like 1 Source MGI Symbol Acc MGI 103300
F01	UPFM0740599	ENSMUST00000147361.7	Rbl2	ENSMUSG0000031666	RB transcriptional corepressor like 2 Source MGI Symbol Acc MGI 105085
F02	UPFM0942585	ENSMUST00000109356.1	Rbpjl	ENSMUSG0000017007	recombination signal binding protein for immunoglobulin kappa J region-like Source MGI Symbol Acc MGI 1196616
F03	UPFM0877232	ENSMUST00000094312.11	Rgma	ENSMUSG0000070509	repulsive guidance molecule family member A Source MGI Symbol Acc MGI 2679262
F04	UPFM0990349	ENSMUST00000210678.1	Smad1	ENSMUSG0000031681	SMAD family member 1 Source MGI Symbol Acc MGI 109452
F05	UPFM0774433	ENSMUST00000172198.7	Smad2	ENSMUSG0000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F06	UPFM0883922	ENSMUST00000034973.9	Smad3	ENSMUSG0000032402	SMAD family member 3 Source MGI Symbol Acc MGI 1201674
F07	UPFM0986328	ENSMUST00000114939.1	Smad4	ENSMUSG0000024515	SMAD family member 4 Source MGI Symbol Acc MGI 894293
F08	UPFM0675736	ENSMUST00000109876.7	Smad5	ENSMUSG0000021540	SMAD family member 5 Source MGI Symbol Acc MGI 1328787
F09	UPFM0801288	ENSMUST00000144323.2	Smad6	ENSMUSG0000036867	SMAD family member 6 Source MGI Symbol Acc MGI 1336883
F10	UPFM0732981	ENSMUST00000174843.7	Smad7	ENSMUSG0000025880	SMAD family member 7 Source MGI Symbol Acc MGI 1100518

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0968127	ENSMUST00000029371.2	Smad9	ENSMUSG0000027796	SMAD family member 9 Source MGI Symbol Acc MGI 1859993
F12	UPFM1009634	ENSMUST00000001812.4	Smo	ENSMUSG0000001761	smoothened, frizzled class receptor Source MGI Symbol Acc MGI 108075
G01	UPFM0830793	ENSMUST00000001326.6	Sp1	ENSMUSG0000001280	trans-acting transcription factor 1 Source MGI Symbol Acc MGI 98372
G02	UPFM0984845	ENSMUST00000092671.11	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G03	UPFM0637338	ENSMUST000000111867.8	Sufu	ENSMUSG0000025231	SUFU negative regulator of hedgehog signaling Source MGI Symbol Acc MGI 1345643
G04	UPFM1007107	ENSMUST000000086844.9	Tcf7	ENSMUSG0000000782	transcription factor 7, T cell specific Source MGI Symbol Acc MGI 98507
G05	UPFM0630940	ENSMUST000000114053.8	Tcf7l1	ENSMUSG0000055799	transcription factor 7 like 1 (T cell specific, HMG box) Source MGI Symbol Acc MGI 1202876
G06	UPFM0988259	ENSMUST000000142291.7	Tcf7l2	ENSMUSG0000024985	transcription factor 7 like 2, T cell specific, HMG box Source MGI Symbol Acc MGI 1202879
G07	UPFM0640020	ENSMUST000000044234.13	Tgfb1	ENSMUSG0000007613	transforming growth factor, beta receptor I Source MGI Symbol Acc MGI 98728
G08	UPFM1172964	ENSMUST000000061101.11	Tgfb2	ENSMUSG0000032440	transforming growth factor, beta receptor II Source MGI Symbol Acc MGI 98729
G09	UPFM0856558	ENSMUST000000031224.14	Tgfb3	ENSMUSG0000029287	transforming growth factor, beta receptor III Source MGI Symbol Acc MGI 104637
G10	UPFM0906534	ENSMUST000000188728.1	Tgfbrap1	ENSMUSG0000070939	transforming growth factor, beta receptor associated protein 1 Source MGI Symbol Acc MGI 2447427
G11	UPFM0957892	ENSMUST000000138714.1	Vangl2	ENSMUSG0000026556	VANGL planar cell polarity 2 Source MGI Symbol Acc MGI 2135272
G12	UPFM0902055	ENSMUST000000176438.8	Zeb2	ENSMUSG0000026872	zinc finger E-box binding homeobox 2 Source MGI Symbol Acc MGI 1344407
H01	UPFM1132946	ENSMUST000000163829.1	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST000000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST000000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST000000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST000000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM1126609	UPL_MGDC	MGDC	UPL_MGDC	Mouse Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
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 Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe 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	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe 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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