

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

## Mouse WNT Signaling Targets

Cat. no. 249955 UPMM-243ZR

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 (Rotor-Gene): QuantiNova LNA Probe 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 Probe PCR Handbook at [www.qiagen.com](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Abcb1a	Ahr	Angptl4	Antr1	Asin2	Birc5	Bmp4	Birc	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	Nrk2	Pdgfra	Ptb2	Plaur	Pou5f1
F	Pfpp3	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 Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM078360 9	ENSMUST00000 047753.4	Abcb1a	ENSMUSG00 000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A02	UPFM087474 3	ENSMUST00000 116436.8	Ahr	ENSMUSG00 000019256	aryl-hydrocarbon receptor Source MGI Symbol Acc MGI 105043
A03	UPFM095383 3	ENSMUST00000 174872.1	Angptl4	ENSMUSG00 000002289	angiopoietin-like 4 Source MGI Symbol Acc MGI 1888999
A04	UPFM068215 7	ENSMUST00000 203131.2	Antxr1	ENSMUSG00 000033420	anthrax toxin receptor 1 Source MGI Symbol Acc MGI 1916788
A05	UPFM096671 7	ENSMUST00000 052915.13	Axin2	ENSMUSG00 000000142	axin 2 Source MGI Symbol Acc MGI 1270862
A06	UPFM085491 3	ENSMUST00000 081387.10	Birc5	ENSMUSG00 000017716	baculoviral IAP repeat-containing 5 Source MGI Symbol Acc MGI 1203517
A07	UPFM097472 7	ENSMUST00000 100676.2	Bmp4	ENSMUSG00 000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
A08	UPFM100513 9	ENSMUST00000 224478.1	Btrc	ENSMUSG00 000025217	beta-transducin repeat containing protein Source MGI Symbol Acc MGI 1338871
A09	UPFM077640 4	ENSMUST00000 225985.1	Cacna2d3	ENSMUSG00 000021991	calcium channel, voltage-dependent, alpha2/delta subunit 3 Source MGI Symbol Acc MGI 1338890
A10	UPFM093346 3	ENSMUST00000 208193.1	Ccnd1	ENSMUSG00 000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A11	UPFM086144 2	ENSMUST00000 201066.1	Ccnd2	ENSMUSG00 000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
A12	UPFM095220 9	ENSMUST00000 111192.2	Cd44	ENSMUSG00 000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
B01	UPFM088317 7	ENSMUST00000 136580.1	Cdh1	ENSMUSG00 000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
B02	UPFM070277 6	ENSMUST00000 107131.1	Cdkn2a	ENSMUSG00 000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
B03	UPFM083819 3	ENSMUST00000 154652.7	Cdon	ENSMUSG00 000038119	cell adhesion molecule-related/down-regulated by oncogenes Source MGI Symbol Acc MGI 1926387
B04	UPFM093221 5	ENSMUST00000 210772.1	Cebpd	ENSMUSG00 000071637	CCAAT/enhancer binding protein (C/EBP), delta Source MGI Symbol Acc MGI 103573
B05	UPFM087426 0	ENSMUST00000 176228.1	Ccn2	ENSMUSG00 000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
B06	UPFM098770 7	ENSMUST00000 195447.1	Cubn	ENSMUSG00 000026726	cubilin (intrinsic factor-cobalamin receptor) Source MGI Symbol Acc MGI 1931256
B07	UPFM082755 9	ENSMUST00000 161812.7	Dab2	ENSMUSG00 000022150	disabled 2, mitogen-responsive phosphoprotein Source MGI Symbol Acc MGI 109175
B08	UPFM100823 0	ENSMUST00000 025803.8	Dkk1	ENSMUSG00 000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
B09	UPFM093509 3	ENSMUST00000 109846.10	Dlk1	ENSMUSG00 000040856	delta like non-canonical Notch ligand 1 Source MGI Symbol Acc MGI 94900
B10	UPFM079992 8	ENSMUST00000 112603.3	Dpp10	ENSMUSG00 000036815	dipeptidylpeptidase 10 Source MGI Symbol Acc MGI 2442409
B11	UPFM098391 0	ENSMUST00000 151750.1	Efnb1	ENSMUSG00 000031217	ephrin B1 Source MGI Symbol Acc MGI 102708
B12	UPFM080878 1	ENSMUST00000 125984.1	Egfr	ENSMUSG00 000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C01	UPFM085434 3	ENSMUST00000 165033.1	Egr1	ENSMUSG00 000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
C02	UPFM082494 3	ENSMUST00000 173516.7	Enpp2	ENSMUSG00 000022425	ectonucleotide pyrophosphatase/phosphodiesterase 2 Source MGI Symbol Acc MGI 1321390
C03	UPFM097328 1	ENSMUST00000 023612.16	Ets2	ENSMUSG00 000022895	E26 avian leukemia oncogene 2, 3 domain Source MGI Symbol Acc MGI 95456
C04	UPFM093264 8	ENSMUST00000 118639.1	Fgf20	ENSMUSG00 000031603	fibroblast growth factor 20 Source MGI Symbol Acc MGI 1891346
C05	UPFM100139 4	ENSMUST00000 208265.1	Fgf4	ENSMUSG00 000050917	fibroblast growth factor 4 Source MGI Symbol Acc MGI 95518
C06	UPFM092996 9	ENSMUST00000 110442.1	Fgf7	ENSMUSG00 000027208	fibroblast growth factor 7 Source MGI Symbol Acc MGI 95521
C07	UPFM090325 3	ENSMUST00000 074654.11	Fgf9	ENSMUSG00 000021974	fibroblast growth factor 9 Source MGI Symbol Acc MGI 104723
C08	UPFM086511 0	ENSMUST00000 188894.6	Fn1	ENSMUSG00 000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C09	UPFM101017 6	ENSMUST00000 235958.1	Fosl1	ENSMUSG00 000024912	fos-like antigen 1 Source MGI Symbol Acc MGI 107179
C10	UPFM064893 2	ENSMUST00000 022287.7	Fst	ENSMUSG00 000021765	follistatin Source MGI Symbol Acc MGI 95586
	UPFM068124	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	114246.3	Fzd7	000041075	frizzled class receptor 7 Source MGI Symbol Acc MGI 108570
C12	UPFM0984960	ENSMUST00000040162.2	Gdf5	ENSMUSG0000038259	growth differentiation factor 5 Source MGI Symbol Acc MGI 95688
D01	UPFM0791269	ENSMUST00000022744.4	Gdnf	ENSMUSG00000022144	glial cell line derived neurotrophic factor Source MGI Symbol Acc MGI 107430
D02	UPFM0827145	ENSMUST00000068581.8	Gja1	ENSMUSG0000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
D03	UPFM0623246	ENSMUST00000020974.6	Id2	ENSMUSG00000020644	inhibitor of DNA binding 2 Source MGI Symbol Acc MGI 96397
D04	UPFM0929418	ENSMUST000000121161.7	Igf1	ENSMUSG00000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D05	UPFM0800081	ENSMUST00000000033.11	Igf2	ENSMUSG0000048583	insulin-like growth factor 2 Source MGI Symbol Acc MGI 96434
D06	UPFM0729099	ENSMUST000000195978.4	Il6	ENSMUSG00000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D07	UPFM0681403	ENSMUST00000069799.2	Irs1	ENSMUSG0000055980	insulin receptor substrate 1 Source MGI Symbol Acc MGI 99454
D08	UPFM0833625	ENSMUST00000028735.7	Jag1	ENSMUSG00000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
D09	UPFM0663623	ENSMUST000000226784.1	Klf5	ENSMUSG0000005148	Kruppel-like factor 5 Source MGI Symbol Acc MGI 1338056
D10	UPFM0802189	ENSMUST000000136147.7	Lef1	ENSMUSG00000027985	lymphoid enhancer binding factor 1 Source MGI Symbol Acc MGI 96770
D11	UPFM0918444	ENSMUST000000121829.7	Lrp1	ENSMUSG00000040249	low density lipoprotein receptor-related protein 1 Source MGI Symbol Acc MGI 96828
D12	UPFM0817946	ENSMUST000000115443.7	Met	ENSMUSG0000009376	met proto-oncogene Source MGI Symbol Acc MGI 96969
E01	UPFM0737374	ENSMUST000000211567.1	Mmp2	ENSMUSG00000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E02	UPFM0900071	ENSMUST000000018767.7	Mmp7	ENSMUSG00000018623	matrix metalloproteinase 7 Source MGI Symbol Acc MGI 103189
E03	UPFM0799308	ENSMUST000000017881.2	Mmp9	ENSMUSG00000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E04	UPFM0814214	ENSMUST000000161976.7	Myc	ENSMUSG0000002346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
E05	UPFM0949589	ENSMUST000000112581.7	Nanog	ENSMUSG00000012396	Nanog homeobox Source MGI Symbol Acc MGI 1919200
E06	UPFM0831539	ENSMUST000000220126.1	Nrcam	ENSMUSG00000020598	neuronal cell adhesion molecule Source MGI Symbol Acc MGI 104750
E07	UPFM0727445	ENSMUST000000212746.1	Nrp1	ENSMUSG00000025810	neuropilin 1 Source MGI Symbol Acc MGI 106206
E08	UPFM0862157	ENSMUST000000225583.1	Ntrk2	ENSMUSG00000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
E09	UPFM0736468	ENSMUST000000202186.3	Pdgfra	ENSMUSG00000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
E10	UPFM0834727	ENSMUST000000172645.7	Pitx2	ENSMUSG00000028023	paired-like homeodomain transcription factor 2 Source MGI Symbol Acc MGI 109340
E11	UPFM0918896	ENSMUST000000206636.1	Plaur	ENSMUSG00000046223	plasminogen activator, urokinase receptor Source MGI Symbol Acc MGI 97612
E12	UPFM0938226	ENSMUST000000025271.16	Pou5f1	ENSMUSG00000024406	POU domain, class 5, transcription factor 1 Source MGI Symbol Acc MGI 101893
F01	UPFM0799683	ENSMUST000000064139.7	Plpp3	ENSMUSG00000028517	phospholipid phosphatase 3 Source MGI Symbol Acc MGI 1915166
F02	UPFM0963809	ENSMUST000000002320.15	Ppard	ENSMUSG0000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
F03	UPFM0740121	ENSMUST000000194663.5	Ptch1	ENSMUSG00000021466	patched 1 Source MGI Symbol Acc MGI 105373
F04	UPFM1004492	ENSMUST000000190784.1	Ptgs2	ENSMUSG00000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F05	UPFM0674217	ENSMUST000000113571.9	Runx2	ENSMUSG00000039153	runt related transcription factor 2 Source MGI Symbol Acc MGI 99829
F06	UPFM0887531	ENSMUST000000029625.7	Sfrp2	ENSMUSG00000027996	secreted frizzled-related protein 2 Source MGI Symbol Acc MGI 108078
F07	UPFM0767391	ENSMUST000000050029.7	Six1	ENSMUSG00000051367	sine oculis-related homeobox 1 Source MGI Symbol Acc MGI 102780
F08	UPFM1009634	ENSMUST000000001812.4	Smo	ENSMUSG00000001761	smoothened, frizzled class receptor Source MGI Symbol Acc MGI 108075
F09	UPFM0806767	ENSMUST000000099151.5	Sox2	ENSMUSG00000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364
F10	UPFM0711675	ENSMUST00000000579.2	Sox9	ENSMUSG0000000567	SRY (sex determining region Y)-box 9 Source MGI Symbol Acc MGI 98371

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0639125	ENSMUST00000177118.1	T	ENSMUSG0000062327	brachyury, T-box transcription factor T Source MGI Symbol Acc MGI 98472
F12	UPFM0878814	ENSMUST00000201157.1	Tcf4	ENSMUSG0000053477	transcription factor 4 Source MGI Symbol Acc MGI 98506
G01	UPFM1007107	ENSMUST00000086844.9	Tcf7	ENSMUSG0000000782	transcription factor 7, T cell specific Source MGI Symbol Acc MGI 98507
G02	UPFM0630940	ENSMUST00000114053.8	Tcf7l1	ENSMUSG0000055799	transcription factor 7 like 1 (T cell specific, HMG box) Source MGI Symbol Acc MGI 1202876
G03	UPFM0988259	ENSMUST00000142291.7	Tcf7l2	ENSMUSG0000024985	transcription factor 7 like 2, T cell specific, HMG box Source MGI Symbol Acc MGI 1202879
G04	UPFM0867376	ENSMUST00000003687.7	Tgfb3	ENSMUSG0000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G05	UPFM0891574	ENSMUST00000102848.8	Tle1	ENSMUSG0000008305	transducin-like enhancer of split 1 Source MGI Symbol Acc MGI 104636
G06	UPFM0897818	ENSMUST00000049089.6	Twist1	ENSMUSG0000035799	twist basic helix-loop-helix transcription factor 1 Source MGI Symbol Acc MGI 98872
G07	UPFM1172966	ENSMUST00000214739.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G08	UPFM0783309	ENSMUST00000229246.1	Ccn4	ENSMUSG0000005124	cellular communication network factor 4 Source MGI Symbol Acc MGI 1197008
G09	UPFM0969315	ENSMUST00000029188.7	Ccn5	ENSMUSG0000027656	cellular communication network factor 5 Source MGI Symbol Acc MGI 1328326
G10	UPFM0776591	ENSMUST00000010044.7	Wnt3a	ENSMUSG0000009900	wingless-type MMTV integration site family, member 3A Source MGI Symbol Acc MGI 98956
G11	UPFM0990695	ENSMUST00000063465.11	Wnt5a	ENSMUSG0000021994	wingless-type MMTV integration site family, member 5A Source MGI Symbol Acc MGI 98958
G12	UPFM0840736	ENSMUST00000108783.3	Wnt9a	ENSMUSG0000000126	wingless-type MMTV integration site family, member 9A Source MGI Symbol Acc MGI 2446084
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 $\mu$ l QuantiNova Probe RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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.

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](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

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