

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

## Mouse Cell Motility

Cat. no. 249955 UPMM-128ZA

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Myl12a	Actn1	Actn3	Actn4	Actr2	Actr3	Akt1	Arf6	Arhgdia	Arhgef7	Baiap2	Bcar1
B	Capn1	Capn2	Cav1	Cdc42	Cfl1	Crk	Csf1	Ctnn	Diaph1	Dpp4	Egf	Egfr
C	Enah	Ezr	Fap	Fgf2	Hgf	Igf1	Igf1r	Ilk	Itga4	Itgb1	Itgb2	Itgb3
D	Limk1	Mapk1	Met	Mmp14	Mmp2	Mmp9	Msn	Myh10	Myh9	Myk	Pak1	Pak4
E	Pfn1	Pik3ca	Plaur	Plcg1	Pld1	Prkca	Pten	Pik2	Pik2b	Ptpn1	Pxn	Rac1
F	Rac2	Rasa1	Rdx	Rho	Rhoa	Rheb	Rhoc	Rnd3	Rock1	Sh3pxd2a	Src	Stat3
G	Svil	Tgfb1	Timp2	Tln1	Vasp	Vcl	Vegfa	Vim	Wasf1	Wasf2	Wasl	Wipf1
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	UPFM073366 6	ENSMUST00000 123686.7	Myl12a	ENSMUSG00 000024048	myosin, light chain 12A, regulatory, non-sarcomeric Source MGI Symbol Acc MGI 1914518
A02	UPFM071945 8	ENSMUST00000 167327.1	Actn1	ENSMUSG00 000015143	actinin, alpha 1 Source MGI Symbol Acc MGI 2137706
A03	UPFM094492 8	ENSMUST00000 138811.1	Actn3	ENSMUSG00 000006457	actinin alpha 3 Source MGI Symbol Acc MGI 99678
A04	UPFM081506 8	ENSMUST00000 127210.7	Actn4	ENSMUSG00 000054808	actinin alpha 4 Source MGI Symbol Acc MGI 1890773
A05	UPFM088725 2	ENSMUST00000 000137.7	Acr2	ENSMUSG00 000020152	ARP2 actin-related protein 2 Source MGI Symbol Acc MGI 1913963
A06	UPFM071460 0	ENSMUST00000 189192.1	Acr3	ENSMUSG00 000026341	ARP3 actin-related protein 3 Source MGI Symbol Acc MGI 1921367
A07	UPFM082786 0	ENSMUST00000 139388.2	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A08	UPFM078905 8	ENSMUST00000 050063.8	Arf6	ENSMUSG00 000044147	ADP-ribosylation factor 6 Source MGI Symbol Acc MGI 99435
A09	UPFM082271 8	ENSMUST00000 106197.9	Arhgdia	ENSMUSG00 000025132	Rho GDP dissociation inhibitor (GDI) alpha Source MGI Symbol Acc MGI 2178103
A10	UPFM069084 5	ENSMUST00000 210104.1	Arhgef7	ENSMUSG00 000031511	Rho guanine nucleotide exchange factor (GEF7) Source MGI Symbol Acc MGI 1860493
A11	UPFM065640 3	ENSMUST00000 106233.1	Baiap2	ENSMUSG00 000025372	brain-specific angiogenesis inhibitor 1-associated protein 2 Source MGI Symbol Acc MGI 2137336
A12	UPFM072650 4	ENSMUST00000 212349.1	Bcar1	ENSMUSG00 000031955	breast cancer anti-estrogen resistance 1 Source MGI Symbol Acc MGI 108091
B01	UPFM089533 7	ENSMUST00000 164843.7	Capn1	ENSMUSG00 000024942	calpain 1 Source MGI Symbol Acc MGI 88263
B02	UPFM090828 3	ENSMUST00000 068505.9	Capn2	ENSMUSG00 000026509	calpain 2 Source MGI Symbol Acc MGI 88264
B03	UPFM094042 8	ENSMUST00000 150901.1	Cav1	ENSMUSG00 000007655	caveolin 1, caveolae protein Source MGI Symbol Acc MGI 102709
B04	UPFM073725 4	ENSMUST00000 030417.9	Cdc42	ENSMUSG00 000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
B05	UPFM063363 3	ENSMUST00000 116560.2	Cfl1	ENSMUSG00 000056201	cofilin 1, non-muscle Source MGI Symbol Acc MGI 101757
B06	UPFM069685 1	ENSMUST00000 147718.1	Crk	ENSMUSG00 000017776	v-crk avian sarcoma virus CT10 oncogene homolog Source MGI Symbol Acc MGI 88508
B07	UPFM064393 3	ENSMUST00000 155557.1	Csf1	ENSMUSG00 000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B08	UPFM064482 5	ENSMUST00000 126018.1	Ctnn	ENSMUSG00 000031078	cortactin Source MGI Symbol Acc MGI 99695
B09	UPFM100029 7	ENSMUST00000 115631.7	Diaph1	ENSMUSG00 000024456	diaphanous related formin 1 Source MGI Symbol Acc MGI 1194490
B10	UPFM077525 3	ENSMUST00000 149306.1	Dpp4	ENSMUSG00 000035000	dipeptidylpeptidase 4 Source MGI Symbol Acc MGI 94919
B11	UPFM092572 5	ENSMUST00000 199615.4	Egf	ENSMUSG00 000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
B12	UPFM080878 1	ENSMUST00000 125984.1	Egfr	ENSMUSG00 000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C01	UPFM074197 6	ENSMUST00000 195840.1	Enah	ENSMUSG00 000022995	ENAH actin regulator Source MGI Symbol Acc MGI 108360
C02	UPFM075399 9	ENSMUST00000 064234.6	Ezr	ENSMUSG00 000052397	ezrin Source MGI Symbol Acc MGI 98931
C03	UPFM081819 4	ENSMUST00000 172676.7	Fap	ENSMUSG00 000000392	fibroblast activation protein Source MGI Symbol Acc MGI 109608
C04	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C05	UPFM081302 0	ENSMUST00000 199900.1	Hgf	ENSMUSG00 000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
C06	UPFM092941 8	ENSMUST00000 121161.7	Igf1	ENSMUSG00 000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
C07	UPFM065329 9	ENSMUST00000 208871.1	Igf1r	ENSMUSG00 000005533	insulin-like growth factor I receptor Source MGI Symbol Acc MGI 96433
C08	UPFM073967 8	ENSMUST00000 149695.7	Ilk	ENSMUSG00 000030890	integrin linked kinase Source MGI Symbol Acc MGI 1195267
C09	UPFM078320 0	ENSMUST00000 099972.4	Itga4	ENSMUSG00 000027009	integrin alpha 4 Source MGI Symbol Acc MGI 96603
C10	UPFM093465 6	ENSMUST00000 124826.1	Itgb1	ENSMUSG00 000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
	UPFM083841	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	4	156644.7	Itgb2	000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
C12	UPFM0799616	ENSMUST00000127140.2	Itgb3	ENSMUSG0000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
D01	UPFM0637046	ENSMUST00000134093.1	Limk1	ENSMUSG0000029674	LIM-domain containing, protein kinase Source MGI Symbol Acc MGI 104572
D02	UPFM0666259	ENSMUST00000232611.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D03	UPFM0817946	ENSMUST00000115443.7	Met	ENSMUSG0000009376	met proto-oncogene Source MGI Symbol Acc MGI 96969
D04	UPFM1010550	ENSMUST00000089688.5	Mmp14	ENSMUSG0000000957	matrix metalloproteinase 14 (membrane-inserted) Source MGI Symbol Acc MGI 101900
D05	UPFM0737374	ENSMUST00000211567.1	Mmp2	ENSMUSG0000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
D06	UPFM0799308	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
D07	UPFM0623078	ENSMUST00000149985.7	Msn	ENSMUSG0000031207	moesin Source MGI Symbol Acc MGI 97167
D08	UPFM0862122	ENSMUST00000155765.1	Myh10	ENSMUSG0000020900	myosin, heavy polypeptide 10, non-muscle Source MGI Symbol Acc MGI 1930780
D09	UPFM0810782	ENSMUST00000129453.7	Myh9	ENSMUSG0000022443	myosin, heavy polypeptide 9, non-muscle Source MGI Symbol Acc MGI 107717
D10	UPFM0751414	ENSMUST00000231589.1	Mylk	ENSMUSG0000022836	myosin, light polypeptide kinase Source MGI Symbol Acc MGI 894806
D11	UPFM0763808	ENSMUST00000156637.2	Pak1	ENSMUSG0000030774	p21 (RAC1) activated kinase 1 Source MGI Symbol Acc MGI 1339975
D12	UPFM0962291	ENSMUST00000108283.7	Pak4	ENSMUSG0000030602	p21 (RAC1) activated kinase 4 Source MGI Symbol Acc MGI 1917834
E01	UPFM0642710	ENSMUST00000178254.1	Pfn1	ENSMUSG0000018293	profilin 1 Source MGI Symbol Acc MGI 97549
E02	UPFM0708438	ENSMUST00000108243.7	Pik3ca	ENSMUSG0000027665	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source MGI Symbol Acc MGI 1206581
E03	UPFM0918896	ENSMUST00000206636.1	Plaur	ENSMUSG0000046223	plasminogen activator, urokinase receptor Source MGI Symbol Acc MGI 97612
E04	UPFM0972762	ENSMUST00000109462.7	Plcg1	ENSMUSG0000016933	phospholipase C, gamma 1 Source MGI Symbol Acc MGI 97615
E05	UPFM0745220	ENSMUST00000067757.10	Pld1	ENSMUSG0000027695	phospholipase D1 Source MGI Symbol Acc MGI 109585
E06	UPFM0916502	ENSMUST00000100302.3	Prkca	ENSMUSG0000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
E07	UPFM0897426	ENSMUST00000013807.7	Pten	ENSMUSG0000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
E08	UPFM0856039	ENSMUST00000226466.1	Ptk2	ENSMUSG0000022607	PTK2 protein tyrosine kinase 2 Source MGI Symbol Acc MGI 95481
E09	UPFM0618200	ENSMUST00000022622.13	Ptk2b	ENSMUSG0000059456	PTK2 protein tyrosine kinase 2 beta Source MGI Symbol Acc MGI 104908
E10	UPFM0964585	ENSMUST00000147210.7	Pttn1	ENSMUSG0000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805
E11	UPFM0647554	ENSMUST00000067268.14	Pxn	ENSMUSG0000029528	paxillin Source MGI Symbol Acc MGI 108295
E12	UPFM0962419	ENSMUST00000131513.1	Rac1	ENSMUSG0000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845
F01	UPFM0782671	ENSMUST00000229394.1	Rac2	ENSMUSG0000033220	Rac family small GTPase 2 Source MGI Symbol Acc MGI 97846
F02	UPFM0974344	ENSMUST00000142285.1	Rasa1	ENSMUSG0000021549	RAS p21 protein activator 1 Source MGI Symbol Acc MGI 97860
F03	UPFM0802948	ENSMUST00000163153.8	Rdx	ENSMUSG0000032050	radixin Source MGI Symbol Acc MGI 97887
F04	UPFM0775215	ENSMUST00000203323.1	Rho	ENSMUSG0000030324	rhodopsin Source MGI Symbol Acc MGI 97914
F05	UPFM0809261	ENSMUST00000007959.13	Rhoa	ENSMUSG0000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
F06	UPFM0927235	ENSMUST00000067384.5	Rhob	ENSMUSG0000054364	ras homolog family member B Source MGI Symbol Acc MGI 107949
F07	UPFM0995226	ENSMUST00000196817.4	Rhoc	ENSMUSG0000002233	ras homolog family member C Source MGI Symbol Acc MGI 106028
F08	UPFM0865071	ENSMUST00000017288.8	Rnd3	ENSMUSG0000017144	Rho family GTPase 3 Source MGI Symbol Acc MGI 1921444
F09	UPFM0686893	ENSMUST00000067947.6	Rock1	ENSMUSG0000024290	Rho-associated coiled-coil containing protein kinase 1 Source MGI Symbol Acc MGI 107927
F10	UPFM0675918	ENSMUST00000237796.1	Sh3pxd2a	ENSMUSG0000053617	SH3 and PX domains 2A Source MGI Symbol Acc MGI 1298393

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM071690 7	ENSMUST00000 109531.7	Src	ENSMUSG00 000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
F12	UPFM098484 5	ENSMUST00000 092671.11	Stat3	ENSMUSG00 000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G01	UPFM076238 3	ENSMUST00000 210707.1	Svil	ENSMUSG00 000024236	supervillin Source MGI Symbol Acc MGI 2147319
G02	UPFM066688 0	ENSMUST00000 171757.1	Tgfb1	ENSMUSG00 000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G03	UPFM073508 3	ENSMUST00000 017610.9	Timp2	ENSMUSG00 000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G04	UPFM080467 0	ENSMUST00000 126078.1	Tln1	ENSMUSG00 000028465	talin 1 Source MGI Symbol Acc MGI 1099832
G05	UPFM088173 9	ENSMUST00000 032561.8	Vasp	ENSMUSG00 000030403	vasodilator-stimulated phosphoprotein Source MGI Symbol Acc MGI 109268
G06	UPFM069252 2	ENSMUST00000 022369.8	Vcl	ENSMUSG00 000021823	vinculin Source MGI Symbol Acc MGI 98927
G07	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G08	UPFM099766 2	ENSMUST00000 028062.7	Vim	ENSMUSG00 000026728	vimentin Source MGI Symbol Acc MGI 98932
G09	UPFM074940 5	ENSMUST00000 105509.1	Wasf1	ENSMUSG00 000019831	WAS protein family, member 1 Source MGI Symbol Acc MGI 1890563
G10	UPFM071837 6	ENSMUST00000 105912.1	Wasf2	ENSMUSG00 000028868	WAS protein family, member 2 Source MGI Symbol Acc MGI 1098641
G11	UPFM068782 8	ENSMUST00000 031695.14	Wasl	ENSMUSG00 000029684	Wiskott-Aldrich syndrome-like (human) Source MGI Symbol Acc MGI 1920428
G12	UPFM088283 9	ENSMUST00000 102680.7	Wipf1	ENSMUSG00 000075284	WAS/WASL interacting protein family, member 1 Source MGI Symbol Acc MGI 2178801
H01	UPFM113294 6	ENSMUST00000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM112660 9	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.

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