

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

Mouse Primary Cilia

Cat. no. 249955 UPMM-127ZR

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 for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Adcy3	Adcy7	Ahi1	Akt1	Alms1	Arl13b	Arl6	Avpr2	Axin2	Bbs1	Bbs2	Bbs4
B	Bbs7	Birc	Cc2d2a	Ccnd1	Cdc42	Cdk5rap2	Cdkn1a	Cep290	Dvl1	Dync2h1	Fat4	Fjx1
C	Fos	Fuz	Fzd1	Gli1	Gli2	Gli3	Gli3	Gsk3b	Hnf1b	Htr6	Irf172	Irf20
D	Irf74	Irf80	Irf88	Igf1	Ihh	Ins2	Intu	Invs	Iqcb1	Irgb1	Kif3a	Kif3b
E	Kras	Lrp2	Map2k1	Mapk1	Mkks	Mks1	Mos	Mtor	Nek8	Nphp1	Nphp3	Otd1
F	Pdgfra	Plk3ca	Pkd1	Pkd2	Pkhd1	Prkca	Ptch1	Ptpn5	Rab23	Rhoa	Rock2	Rpgrip11
G	Shh	Smo	Satr3	Sufu	Tmem67	Trp53	Tsc1	Tsc2	Ttc8	Vangl2	Wnt9b	Wwtr1
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	UPFM0880338	ENSMUST00000127756.7	Adcy3	ENSMUSG0000020654	adenylate cyclase 3 Source MGI Symbol Acc MGI 99675
A02	UPFM0833041	ENSMUST00000168545.7	Adcy7	ENSMUSG00000031659	adenylate cyclase 7 Source MGI Symbol Acc MGI 102891
A03	UPFM0914126	ENSMUST00000163505.2	Ahi1	ENSMUSG0000019986	Abelson helper integration site 1 Source MGI Symbol Acc MGI 87971
A04	UPFM0827860	ENSMUST00000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A05	UPFM0864660	ENSMUST00000072018.5	Alms1	ENSMUSG00000063810	ALMS1, centrosome and basal body associated Source MGI Symbol Acc MGI 1934606
A06	UPFM0699019	ENSMUST00000141665.1	Arl13b	ENSMUSG0000022911	ADP-ribosylation factor-like 13B Source MGI Symbol Acc MGI 1915396
A07	UPFM0877491	ENSMUST00000023405.15	Arl6	ENSMUSG00000022722	ADP-ribosylation factor-like 6 Source MGI Symbol Acc MGI 1927136
A08	UPFM0907469	ENSMUST00000114395.1	Avpr2	ENSMUSG00000031390	arginine vasopressin receptor 2 Source MGI Symbol Acc MGI 88123
A09	UPFM0966717	ENSMUST00000052915.13	Axin2	ENSMUSG00000000142	axin 2 Source MGI Symbol Acc MGI 1270862
A10	UPFM0967091	ENSMUST000000237638.1	Bbs1	ENSMUSG00000006464	Bardet-Biedl syndrome 1 (human) Source MGI Symbol Acc MGI 1277215
A11	UPFM0805238	ENSMUST00000170208.1	Bbs2	ENSMUSG00000031755	Bardet-Biedl syndrome 2 (human) Source MGI Symbol Acc MGI 2135267
A12	UPFM0687631	ENSMUST000000214832.1	Bbs4	ENSMUSG00000025235	Bardet-Biedl syndrome 4 (human) Source MGI Symbol Acc MGI 2143311
B01	UPFM0823550	ENSMUST00000108155.7	Bbs7	ENSMUSG00000037325	Bardet-Biedl syndrome 7 (human) Source MGI Symbol Acc MGI 1918742
B02	UPFM1005139	ENSMUST000000224478.1	Btrc	ENSMUSG00000025217	beta-transducin repeat containing protein Source MGI Symbol Acc MGI 1338871
B03	UPFM0794705	ENSMUST00000127355.1	Cc2d2a	ENSMUSG00000039765	coiled-coil and C2 domain containing 2A Source MGI Symbol Acc MGI 1924487
B04	UPFM0933463	ENSMUST000000208193.1	Ccnd1	ENSMUSG00000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B05	UPFM0737254	ENSMUST00000030417.9	Cdc42	ENSMUSG00000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
B06	UPFM0970454	ENSMUST00000140108.1	Cdk5rap2	ENSMUSG00000039298	CDK5 regulatory subunit associated protein 2 Source MGI Symbol Acc MGI 2384875
B07	UPFM0867791	ENSMUST00000122348.2	Cdkn1a	ENSMUSG00000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B08	UPFM0755300	ENSMUST000000220346.1	Cep290	ENSMUSG0000019971	centrosomal protein 290 Source MGI Symbol Acc MGI 2384917
B09	UPFM0782178	ENSMUST00000168552.1	Dvl1	ENSMUSG00000029071	dishevelled segment polarity protein 1 Source MGI Symbol Acc MGI 94941
B10	UPFM0832768	ENSMUST00000025101.9	Dync2li1	ENSMUSG00000024253	dynein cytoplasmic 2 light intermediate chain 1 Source MGI Symbol Acc MGI 1913996
B11	UPFM0763325	ENSMUST00000129182.1	Fat4	ENSMUSG00000046743	FAT atypical cadherin 4 Source MGI Symbol Acc MGI 3045256
B12	UPFM0745949	ENSMUST00000099678.4	Fjx1	ENSMUSG00000075012	four jointed box 1 Source MGI Symbol Acc MGI 1341907
C01	UPFM0764563	ENSMUST00000136122.7	Fos	ENSMUSG00000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
C02	UPFM0737091	ENSMUST000000207069.1	Fuz	ENSMUSG00000011658	fuzzy planar cell polarity protein Source MGI Symbol Acc MGI 1917550
C03	UPFM0783901	ENSMUST00000054294.6	Fzd1	ENSMUSG00000044674	frizzled class receptor 1 Source MGI Symbol Acc MGI 1196625
C04	UPFM0963642	ENSMUST000000218236.1	Gli1	ENSMUSG00000025407	GLI-Kruppel family member GLI1 Source MGI Symbol Acc MGI 95727
C05	UPFM0684655	ENSMUST000000161056.7	Gli2	ENSMUSG00000048402	GLI-Kruppel family member GLI2 Source MGI Symbol Acc MGI 95728
C06	UPFM0972832	ENSMUST000000141194.7	Gli3	ENSMUSG00000021318	GLI-Kruppel family member GLI3 Source MGI Symbol Acc MGI 95729
C07	UPFM0915164	ENSMUST000000135577.1	Glis2	ENSMUSG00000014303	GLIS family zinc finger 2 Source MGI Symbol Acc MGI 1932535
C08	UPFM0986877	ENSMUST000000114750.1	Gsk3b	ENSMUSG00000022812	glycogen synthase kinase 3 beta Source MGI Symbol Acc MGI 1861437
C09	UPFM0915143	ENSMUST000000021016.9	Hnf1b	ENSMUSG00000020679	HNF1 homeobox B Source MGI Symbol Acc MGI 98505
C10	UPFM0624907	ENSMUST000000068036.1	Htr6	ENSMUSG00000028747	5-hydroxytryptamine (serotonin) receptor 6 Source MGI Symbol Acc MGI 1196627
	UPFM078139	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	7	201274.1	lft172	000038564	intraflagellar transport 172 Source MGI Symbol Acc MGI 2682064
C12	UPFM078083 6	ENSMUST00000 152016.1	lft20	ENSMUSG00 000001105	intraflagellar transport 20 Source MGI Symbol Acc MGI 1915585
D01	UPFM077027 2	ENSMUST00000 030311.10	lft74	ENSMUSG00 000028576	intraflagellar transport 74 Source MGI Symbol Acc MGI 1914944
D02	UPFM077989 2	ENSMUST00000 169064.7	lft80	ENSMUSG00 000027778	intraflagellar transport 80 Source MGI Symbol Acc MGI 1915509
D03	UPFM084049 9	ENSMUST00000 154492.1	lft88	ENSMUSG00 000040040	intraflagellar transport 88 Source MGI Symbol Acc MGI 98715
D04	UPFM092941 8	ENSMUST00000 121161.7	lgf1	ENSMUSG00 000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D05	UPFM064153 5	ENSMUST00000 189364.1	lhh	ENSMUSG00 000006538	Indian hedgehog Source MGI Symbol Acc MGI 96533
D06	UPFM100267 5	ENSMUST00000 210288.1	Ins2	ENSMUSG00 000000215	insulin II Source MGI Symbol Acc MGI 96573
D07	UPFM099682 4	ENSMUST00000 091186.6	Intu	ENSMUSG00 000060798	inturned planar cell polarity protein Source MGI Symbol Acc MGI 2443752
D08	UPFM100086 2	ENSMUST00000 030029.9	Invs	ENSMUSG00 000028344	inversin Source MGI Symbol Acc MGI 1335082
D09	UPFM098402 8	ENSMUST00000 114819.7	lqcb1	ENSMUSG00 000022837	IQ calmodulin-binding motif containing 1 Source MGI Symbol Acc MGI 2443764
D10	UPFM093465 6	ENSMUST00000 124826.1	Itgb1	ENSMUSG00 000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
D11	UPFM085290 2	ENSMUST00000 118353.8	Kif3a	ENSMUSG00 000018395	kinesin family member 3A Source MGI Symbol Acc MGI 107689
D12	UPFM068870 2	ENSMUST00000 028977.6	Kif3b	ENSMUSG00 000027475	kinesin family member 3B Source MGI Symbol Acc MGI 107688
E01	UPFM100079 9	ENSMUST00000 032399.11	Kras	ENSMUSG00 000030265	Kirsten rat sarcoma viral oncogene homolog Source MGI Symbol Acc MGI 96680
E02	UPFM069302 8	ENSMUST00000 100051.8	Lrp2	ENSMUSG00 000027070	low density lipoprotein receptor-related protein 2 Source MGI Symbol Acc MGI 95794
E03	UPFM066592 5	ENSMUST00000 005066.8	Map2k1	ENSMUSG00 000004936	mitogen-activated protein kinase kinase 1 Source MGI Symbol Acc MGI 1346866
E04	UPFM066625 9	ENSMUST00000 232611.1	Mapk1	ENSMUSG00 000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
E05	UPFM066725 8	ENSMUST00000 110089.8	Mkks	ENSMUSG00 000027274	McKusick-Kaufman syndrome Source MGI Symbol Acc MGI 1891836
E06	UPFM086556 7	ENSMUST00000 038196.6	Mks1	ENSMUSG00 000034121	Meckel syndrome, type 1 Source MGI Symbol Acc MGI 3584243
E07	UPFM096890 7	ENSMUST00000 105158.1	Mos	ENSMUSG00 000078365	Moloney sarcoma oncogene Source MGI Symbol Acc MGI 97052
E08	UPFM062102 3	ENSMUST00000 057580.7	Mtor	ENSMUSG00 000028991	mechanistic target of rapamycin kinase Source MGI Symbol Acc MGI 1928394
E09	UPFM098697 9	ENSMUST00000 017549.12	Nek8	ENSMUSG00 000017405	NIMA (never in mitosis gene a)-related expressed kinase 8 Source MGI Symbol Acc MGI 1890646
E10	UPFM089864 4	ENSMUST00000 028857.13	Nphp1	ENSMUSG00 000027378	nephronophthisis 1 (juvenile) homolog (human) Source MGI Symbol Acc MGI 1858233
E11	UPFM069868 1	ENSMUST00000 192485.1	Nphp3	ENSMUSG00 000032558	nephronophthisis 3 (adolescent) Source MGI Symbol Acc MGI 1921275
E12	UPFM086974 4	ENSMUST00000 049501.8	Ofd1	ENSMUSG00 000040586	OFD1, centriole and centriolar satellite protein Source MGI Symbol Acc MGI 1350328
F01	UPFM073646 8	ENSMUST00000 202186.3	Pdgfra	ENSMUSG00 000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
F02	UPFM070843 8	ENSMUST00000 108243.7	Pik3ca	ENSMUSG00 000027665	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source MGI Symbol Acc MGI 1206581
F03	UPFM072324 6	ENSMUST00000 228581.1	Pkd1	ENSMUSG00 000032855	polycystin 1, transient receptor potential channel interacting Source MGI Symbol Acc MGI 97603
F04	UPFM082374 0	ENSMUST00000 086831.3	Pkd2	ENSMUSG00 000034462	polycystic kidney disease 2 Source MGI Symbol Acc MGI 1099818
F05	UPFM083035 3	ENSMUST00000 147480.7	Pkhd1	ENSMUSG00 000043760	polycystic kidney and hepatic disease 1 Source MGI Symbol Acc MGI 2155808
F06	UPFM091650 2	ENSMUST00000 100302.3	Prkca	ENSMUSG00 000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
F07	UPFM074012 1	ENSMUST00000 194663.5	Ptch1	ENSMUSG00 000021466	patched 1 Source MGI Symbol Acc MGI 105373
F08	UPFM066909 5	ENSMUST00000 033142.12	Ptpn5	ENSMUSG00 000030854	protein tyrosine phosphatase, non-receptor type 5 Source MGI Symbol Acc MGI 97807
F09	UPFM101061 9	ENSMUST00000 135330.7	Rab23	ENSMUSG00 000004768	RAB23, member RAS oncogene family Source MGI Symbol Acc MGI 99833
F10	UPFM080926 1	ENSMUST00000 007959.13	Rhoa	ENSMUSG00 000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM094100 1	ENSMUST00000 220688.1	Rock2	ENSMUSG00 000020580	Rho-associated coiled-coil containing protein kinase 2 Source MGI Symbol Acc MGI 107926
F12	UPFM084336 1	ENSMUST00000 139113.7	Rpgrip1l	ENSMUSG00 000033282	Rpgrip1-like Source MGI Symbol Acc MGI 1920563
G01	UPFM073707 0	ENSMUST00000 002708.4	Shh	ENSMUSG00 000002633	sonic hedgehog Source MGI Symbol Acc MGI 98297
G02	UPFM100963 4	ENSMUST00000 001812.4	Smo	ENSMUSG00 000001761	smoothened, frizzled class receptor Source MGI Symbol Acc MGI 108075
G03	UPFM092900 5	ENSMUST00000 053239.3	Sstr3	ENSMUSG00 000044933	somatostatin receptor 3 Source MGI Symbol Acc MGI 98329
G04	UPFM063733 8	ENSMUST00000 111867.8	Sufu	ENSMUSG00 000025231	SUFU negative regulator of hedgehog signaling Source MGI Symbol Acc MGI 1345643
G05	UPFM072354 7	ENSMUST00000 050686.9	Tmem67	ENSMUSG00 000049488	transmembrane protein 67 Source MGI Symbol Acc MGI 1923928
G06	UPFM066913 3	ENSMUST00000 171247.7	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G07	UPFM074659 5	ENSMUST00000 156857.7	Tsc1	ENSMUSG00 000026812	tuberous sclerosis 1 Source MGI Symbol Acc MGI 1929183
G08	UPFM073190 6	ENSMUST00000 226398.1	Tsc2	ENSMUSG00 000002496	tuberous sclerosis 2 Source MGI Symbol Acc MGI 102548
G09	UPFM085679 7	ENSMUST00000 079146.12	Ttc8	ENSMUSG00 000021013	tetratricopeptide repeat domain 8 Source MGI Symbol Acc MGI 1923510
G10	UPFM095789 2	ENSMUST00000 138714.1	Vangl2	ENSMUSG00 000026556	VANGL planar cell polarity 2 Source MGI Symbol Acc MGI 2135272
G11	UPFM093479 9	ENSMUST00000 018630.2	Wnt9b	ENSMUSG00 000018486	wingless-type MMTV integration site family, member 9B Source MGI Symbol Acc MGI 1197020
G12	UPFM098863 3	ENSMUST00000 120977.1	Wwtr1	ENSMUSG00 000027803	WW domain containing transcription regulator 1 Source MGI Symbol Acc MGI 1917649
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 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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