

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

Mouse Molecular Toxicology PathwayFinder

Cat. no. 249955 UPMM-401ZR

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	Abcb4	Abcc2	Abcc3	Acadm	Acadvl	Acox1	Adhl	Adm2	Akr1c21	Akt1	Armdc3	Asah1
B	Aab1	Asns	Atm	Atp8b1	Bcl2	Bcl2l1	Brcal	Casp8	Casp9	Cd36	Cdkn1a	Cpt1a
C	Cpt1b	Cplf2	Cyb5d1d1	Cyld	Cyp1a1	Cyp1a2	Cyp2d22	Cyp2e1	Cyp3a11	Dnajb1	Dnajb9	Erc2
D	F2	Fasl	Fasn	Fhl2	Gclm	Grb2	Herpud1	Hmax1	Hpn	Hpx	Hsf1	Hspa1a
E	Hspa1b	Hspa4	Hspa5	Hspa8	Hspb1	Hspd1	Inhbe	Lpl	Lss	Lyz2	Mag	Mdm2
F	Mef2p2	Mki67	Ncoa7	Nqo1	Nr5a2	Slc51a	Parp2	Pdyn	Ppara	Pvr	Rad51	Rdx
G	Scd1	Serpina3n	Slc25a25	Slc2a3	Slc7a11	Srebf1	Tagln	Trib3	Trim10	Txn14b	Uhrf1	Wipi1
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	UPFM071083 0	ENSMUST000000 003717.12	Abcb4	ENSMUSG00 000042476	ATP-binding cassette, sub-family B (MDR/TAP), member 4 Source MGI Symbol Acc MGI 97569
A02	UPFM098936 3	ENSMUST000000 143553.1	Abcc2	ENSMUSG00 000025194	ATP-binding cassette, sub-family C (CFTR/MRP), member 2 Source MGI Symbol Acc MGI 1352447
A03	UPFM093412 1	ENSMUST000000 021231.7	Abcc3	ENSMUSG00 000020865	ATP-binding cassette, sub-family C (CFTR/MRP), member 3 Source MGI Symbol Acc MGI 1923658
A04	UPFM070833 0	ENSMUST000000 199342.1	Acadm	ENSMUSG00 000062908	acyl-Coenzyme A dehydrogenase, medium chain Source MGI Symbol Acc MGI 87867
A05	UPFM090580 7	ENSMUST000000 137187.7	Acadvl	ENSMUSG00 000018574	acyl-Coenzyme A dehydrogenase, very long chain Source MGI Symbol Acc MGI 895149
A06	UPFM092748 8	ENSMUST000000 066587.11	Acox1	ENSMUSG00 000020777	acyl-Coenzyme A oxidase 1, palmitoyl Source MGI Symbol Acc MGI 1330812
A07	UPFM098557 8	ENSMUST000000 004232.9	Adh1	ENSMUSG00 000074207	alcohol dehydrogenase 1 (class I) Source MGI Symbol Acc MGI 87921
A08	UPFM085833 9	ENSMUST000000 066991.6	Adm2	ENSMUSG00 000054136	adrenomedullin 2 Source MGI Symbol Acc MGI 2675256
A09	UPFM092434 8	ENSMUST000000 021628.3	Akr1c21	ENSMUSG00 000021207	aldo-keto reductase family 1, member C21 Source MGI Symbol Acc MGI 1924587
A10	UPFM082786 0	ENSMUST000000 139388.2	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A11	UPFM083163 9	ENSMUST000000 099356.9	Arrdc3	ENSMUSG00 000074794	arrestin domain containing 3 Source MGI Symbol Acc MGI 2145242
A12	UPFM094704 4	ENSMUST000000 034000.14	Asah1	ENSMUSG00 000031591	N-acylsphingosine amidohydrolase 1 Source MGI Symbol Acc MGI 1277124
B01	UPFM083447 4	ENSMUST000000 027538.8	Asb1	ENSMUSG00 000026311	ankyrin repeat and SOCS box-containing 1 Source MGI Symbol Acc MGI 1929735
B02	UPFM083046 4	ENSMUST000000 126303.7	Asns	ENSMUSG00 000029752	asparagine synthetase Source MGI Symbol Acc MGI 1350929
B03	UPFM070877 3	ENSMUST000000 150244.1	Atm	ENSMUSG00 000034218	ataxia telangiectasia mutated Source MGI Symbol Acc MGI 107202
B04	UPFM063330 3	ENSMUST000000 025482.9	Atp8b1	ENSMUSG00 000039529	ATPase, class I, type 8B, member 1 Source MGI Symbol Acc MGI 1859665
B05	UPFM063585 3	ENSMUST000000 112751.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
B06	UPFM066341 1	ENSMUST000000 156688.1	Bcl2l1	ENSMUSG00 000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
B07	UPFM098990 7	ENSMUST000000 156843.1	Brca1	ENSMUSG00 000017146	breast cancer 1, early onset Source MGI Symbol Acc MGI 104537
B08	UPFM067082 6	ENSMUST000000 191201.6	Casp8	ENSMUSG00 000026029	caspase 8 Source MGI Symbol Acc MGI 1261423
B09	UPFM069330 9	ENSMUST000000 097805.10	Casp9	ENSMUSG00 000028914	caspase 9 Source MGI Symbol Acc MGI 1277950
B10	UPFM083550 8	ENSMUST000000 170051.7	Cd36	ENSMUSG00 000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B11	UPFM086779 1	ENSMUST000000 122348.2	Cdkn1a	ENSMUSG00 000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B12	UPFM066697 5	ENSMUST000000 238027.1	Cpt1a	ENSMUSG00 000024900	carnitine palmitoyltransferase 1a, liver Source MGI Symbol Acc MGI 1098296
C01	UPFM095459 9	ENSMUST000000 109313.8	Cpt1b	ENSMUSG00 000078937	carnitine palmitoyltransferase 1b, muscle Source MGI Symbol Acc MGI 1098297
C02	UPFM091584 0	ENSMUST000000 106720.8	Cpt2	ENSMUSG00 000028607	carnitine palmitoyltransferase 2 Source MGI Symbol Acc MGI 109176
C03	UPFM082176 7	ENSMUST000000 065664.6	Cyb561d1	ENSMUSG00 000048796	cytochrome b-561 domain containing 1 Source MGI Symbol Acc MGI 1919273
C04	UPFM101231 6	ENSMUST000000 209532.1	Cyld	ENSMUSG00 000036712	CYLD lysine 63 deubiquitinase Source MGI Symbol Acc MGI 1921506
C05	UPFM076795 1	ENSMUST000000 034865.5	Cyp1a1	ENSMUSG00 000032315	cytochrome P450, family 1, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88588
C06	UPFM085894 9	ENSMUST000000 034860.4	Cyp1a2	ENSMUSG00 000032310	cytochrome P450, family 1, subfamily a, polypeptide 2 Source MGI Symbol Acc MGI 88589
C07	UPFM096860 7	ENSMUST000000 230663.1	Cyp2d22	ENSMUSG00 000061740	cytochrome P450, family 2, subfamily d, polypeptide 22 Source MGI Symbol Acc MGI 1929474
C08	UPFM081566 5	ENSMUST000000 210403.1	Cyp2e1	ENSMUSG00 000025479	cytochrome P450, family 2, subfamily e, polypeptide 1 Source MGI Symbol Acc MGI 88607
C09	UPFM100246 3	ENSMUST000000 035918.7	Cyp3a11	ENSMUSG00 000056035	cytochrome P450, family 3, subfamily a, polypeptide 11 Source MGI Symbol Acc MGI 88609
C10	UPFM089539 1	ENSMUST000000 005620.9	Dnajb1	ENSMUSG00 000005483	DnaJ heat shock protein family (Hsp40) member B1 Source MGI Symbol Acc MGI 1931874
	UPFM069557	ENSMUST000000		ENSMUSG00	DnaJ heat shock protein family (Hsp40) member B9 Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	0	015049.4	Dnajb9	000014905	MGI 1351618
C12	UPFM092894 1	ENSMUST00000 128167.1	Ercc2	ENSMUSG00 000030400	excision repair cross-complementing rodent repair deficiency, complementation group 2 Source MGI Symbol Acc MGI 95413
D01	UPFM101213 2	ENSMUST00000 028681.14	F2	ENSMUSG00 000027249	coagulation factor II Source MGI Symbol Acc MGI 88380
D02	UPFM074944 2	ENSMUST00000 193648.1	FasI	ENSMUSG00 000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
D03	UPFM081265 2	ENSMUST00000 055655.8	Fasn	ENSMUSG00 000025153	fatty acid synthase Source MGI Symbol Acc MGI 95485
D04	UPFM086516 0	ENSMUST00000 008280.13	Fhl2	ENSMUSG00 000008136	four and a half LIM domains 2 Source MGI Symbol Acc MGI 1338762
D05	UPFM075137 1	ENSMUST00000 149983.3	Gclm	ENSMUSG00 000028124	glutamate-cysteine ligase, modifier subunit Source MGI Symbol Acc MGI 104995
D06	UPFM076228 3	ENSMUST00000 135065.1	Grb2	ENSMUSG00 000059923	growth factor receptor bound protein 2 Source MGI Symbol Acc MGI 95805
D07	UPFM095065 1	ENSMUST00000 161576.7	Herpud1	ENSMUSG00 000031770	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 Source MGI Symbol Acc MGI 1927406
D08	UPFM070898 7	ENSMUST00000 005548.7	Hmox1	ENSMUSG00 000005413	heme oxygenase 1 Source MGI Symbol Acc MGI 96163
D09	UPFM097217 3	ENSMUST00000 108102.8	Hpn	ENSMUSG00 000001249	hepsin Source MGI Symbol Acc MGI 1196620
D10	UPFM076912 7	ENSMUST00000 210531.1	Hpx	ENSMUSG00 000030895	hemopexin Source MGI Symbol Acc MGI 105112
D11	UPFM070667 3	ENSMUST00000 226872.1	Hsf1	ENSMUSG00 000022556	heat shock factor 1 Source MGI Symbol Acc MGI 96238
D12	UPFM092155 3	ENSMUST00000 087328.3	Hspa1a	ENSMUSG00 000091971	heat shock protein 1A Source MGI Symbol Acc MGI 96244
E01	UPFM069277 6	ENSMUST00000 172753.1	Hspa1b	ENSMUSG00 000090877	heat shock protein 1B Source MGI Symbol Acc MGI 99517
E02	UPFM062819 4	ENSMUST00000 020630.7	Hspa4	ENSMUSG00 000020361	heat shock protein 4 Source MGI Symbol Acc MGI 1342292
E03	UPFM100460 3	ENSMUST00000 100171.2	Hspa5	ENSMUSG00 000026864	heat shock protein 5 Source MGI Symbol Acc MGI 95835
E04	UPFM074399 3	ENSMUST00000 215526.1	Hspa8	ENSMUSG00 000015656	heat shock protein 8 Source MGI Symbol Acc MGI 105384
E05	UPFM101003 5	ENSMUST00000 005077.6	Hspb1	ENSMUSG00 000004951	heat shock protein 1 Source MGI Symbol Acc MGI 96240
E06	UPFM078732 4	ENSMUST00000 144077.2	Hspd1	ENSMUSG00 000025980	heat shock protein 1 (chaperonin) Source MGI Symbol Acc MGI 96242
E07	UPFM093841 4	ENSMUST00000 059718.5	Inhbe	ENSMUSG00 000047492	inhibin beta-E Source MGI Symbol Acc MGI 109269
E08	UPFM082678 7	ENSMUST00000 169749.1	Lpl	ENSMUSG00 000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E09	UPFM093563 6	ENSMUST00000 159013.7	Lss	ENSMUSG00 000033105	lanosterol synthase Source MGI Symbol Acc MGI 1336155
E10	UPFM063603 8	ENSMUST00000 092163.8	Lyz2	ENSMUSG00 000069516	lysozyme 2 Source MGI Symbol Acc MGI 96897
E11	UPFM084129 7	ENSMUST00000 040548.13	Mag	ENSMUSG00 000036634	myelin-associated glycoprotein Source MGI Symbol Acc MGI 96912
E12	UPFM075219 5	ENSMUST00000 137102.7	Mdm2	ENSMUSG00 000020184	transformed mouse 3T3 cell double minute 2 Source MGI Symbol Acc MGI 96952
F01	UPFM094876 9	ENSMUST00000 180392.7	Metap2	ENSMUSG00 000036112	methionine aminopeptidase 2 Source MGI Symbol Acc MGI 1929701
F02	UPFM068163 0	ENSMUST00000 211238.1	Mki67	ENSMUSG00 000031004	antigen identified by monoclonal antibody Ki 67 Source MGI Symbol Acc MGI 106035
F03	UPFM088606 3	ENSMUST00000 068567.4	Ncoa7	ENSMUSG00 000039697	nuclear receptor coactivator 7 Source MGI Symbol Acc MGI 2444847
F04	UPFM063067 7	ENSMUST00000 003947.8	Nqo1	ENSMUSG00 000003849	NAD(P)H dehydrogenase, quinone 1 Source MGI Symbol Acc MGI 103187
F05	UPFM092473 0	ENSMUST00000 192587.1	Nr5a2	ENSMUSG00 000026398	nuclear receptor subfamily 5, group A, member 2 Source MGI Symbol Acc MGI 1346834
F06	UPFM068502 9	ENSMUST00000 231690.1	Slc51a	ENSMUSG00 000035699	solute carrier family 51, alpha subunit Source MGI Symbol Acc MGI 2146634
F07	UPFM087358 4	ENSMUST00000 036126.6	Parp2	ENSMUSG00 000036023	poly (ADP-ribose) polymerase family, member 2 Source MGI Symbol Acc MGI 1341112
F08	UPFM066313 1	ENSMUST00000 152113.1	Pdyn	ENSMUSG00 000027400	prodynorphin Source MGI Symbol Acc MGI 97535
F09	UPFM096943 9	ENSMUST00000 138813.7	Ppara	ENSMUSG00 000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F10	UPFM093070 0	ENSMUST00000 159413.1	Pvr	ENSMUSG00 000040511	poliovirus receptor Source MGI Symbol Acc MGI 107741

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM093244 8	ENSMUST00000 110828.1	Rad51	ENSMUSG00 000027323	RAD51 recombinase Source MGI Symbol Acc MGI 97890
F12	UPFM080294 8	ENSMUST00000 163153.8	Rdx	ENSMUSG00 000032050	radixin Source MGI Symbol Acc MGI 97887
G01	UPFM064289 0	ENSMUST00000 236824.1	Scd1	ENSMUSG00 000037071	stearoyl-Coenzyme A desaturase 1 Source MGI Symbol Acc MGI 98239
G02	UPFM070363 0	ENSMUST00000 021506.5	Serpina3n	ENSMUSG00 000021091	serine (or cysteine) peptidase inhibitor, clade A, member 3N Source MGI Symbol Acc MGI 105045
G03	UPFM084544 3	ENSMUST00000 128611.3	Slc25a25	ENSMUSG00 000026819	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 25 Source MGI Symbol Acc MGI 1915913
G04	UPFM100859 5	ENSMUST00000 032476.10	Slc2a3	ENSMUSG00 000003153	solute carrier family 2 (facilitated glucose transporter), member 3 Source MGI Symbol Acc MGI 95757
G05	UPFM068233 8	ENSMUST00000 142932.2	Slc7a11	ENSMUSG00 000027737	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11 Source MGI Symbol Acc MGI 1347355
G06	UPFM063110 3	ENSMUST00000 149238.1	Srebf1	ENSMUSG00 000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G07	UPFM079487 9	ENSMUST00000 215509.1	Tagln	ENSMUSG00 000032085	transgelin Source MGI Symbol Acc MGI 106012
G08	UPFM071423 7	ENSMUST00000 040312.6	Trib3	ENSMUSG00 000032715	tribbles pseudokinase 3 Source MGI Symbol Acc MGI 1345675
G09	UPFM086004 9	ENSMUST00000 060524.10	Trim10	ENSMUSG00 000073400	tripartite motif-containing 10 Source MGI Symbol Acc MGI 1338757
G10	UPFM065536 3	ENSMUST00000 034159.7	Txn14b	ENSMUSG00 000031723	thioredoxin-like 4B Source MGI Symbol Acc MGI 2443724
G11	UPFM069210 5	ENSMUST00000 113039.8	Uhrf1	ENSMUSG00 000001228	ubiquitin-like, containing PHD and RING finger domains, 1 Source MGI Symbol Acc MGI 1338889
G12	UPFM069333 2	ENSMUST00000 106689.1	Wipi1	ENSMUSG00 000041895	WD repeat domain, phosphoinositide interacting 1 Source MGI Symbol Acc MGI 1261864
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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