

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

Mouse Drug Metabolism

Cat. no. 249955 UPMM-002ZR

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	Abcb1a	Abcb1b	Abcb4	Abcc1	Aoc1	Adh1	Adh4	Adh5	Ahr	Alad	Aldh1a1	Alox12
B	Alox15	Alox5	ApoE	Arnt	Asna1	Bivra	Bivrb	Ces1g	Ces2c	Chat1	Comt	Cyb5r3
C	Cyp11b2	Cyp17a1	Cyp19a1	Cyp1a1	Cyp1a2	Cyp27b1	Cyp2c29	Cyp2e1	Cyp3a11	Cyp3a44	Cyp4b1	Ephx1
D	Ephx2	Faah	Fbp1	Gad1	Gad2	Gckr	Ggt1	Gpi1	Gpx1	Gpx2	Gpx3	Gpx5
E	Gsr	Gsta1	Gsta3	Gsta4	Gstm1	Gstm2	Gstm3	Gstm4	Gstm5	Gstp1	Gstt1	Gstz1
F	Hk2	Hsd17b1	Hsd17b2	Hsd17b3	Lpo	Mgst1	Mgst2	Mgst3	Mpo	Mt2	Mt3	Mthfr
G	Nat1	Nat2	Nos3	Nqo1	Plkr	Plkm	Pon1	Pon2	Pon3	Snn	Srd5a1	Srd5a2
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	UPFM0783609	ENSMUST00000047753.4	Abcb1a	ENSMUSG0000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A02	UPFM0825422	ENSMUST00000009058.9	Abcb1b	ENSMUSG00000028970	ATP-binding cassette, sub-family B (MDR/TAP), member 1B Source MGI Symbol Acc MGI 97568
A03	UPFM0710830	ENSMUST00000003717.12	Abcb4	ENSMUSG0000042476	ATP-binding cassette, sub-family B (MDR/TAP), member 4 Source MGI Symbol Acc MGI 97569
A04	UPFM0766084	ENSMUST000000144676.2	Abcc1	ENSMUSG0000023088	ATP-binding cassette, sub-family C (CFTR/MRP), member 1 Source MGI Symbol Acc MGI 102676
A05	UPFM0684395	ENSMUST000000162948.6	Aoc1	ENSMUSG0000029811	amine oxidase, copper-containing 1 Source MGI Symbol Acc MGI 1923757
A06	UPFM0985578	ENSMUST00000004232.9	Adh1	ENSMUSG0000074207	alcohol dehydrogenase 1 (class I) Source MGI Symbol Acc MGI 87921
A07	UPFM0637700	ENSMUST00000013458.8	Adh4	ENSMUSG00000037797	alcohol dehydrogenase 4 (class II), pi polypeptide Source MGI Symbol Acc MGI 1349472
A08	UPFM0871449	ENSMUST000000162024.1	Adh5	ENSMUSG0000028138	alcohol dehydrogenase 5 (class III), chi polypeptide Source MGI Symbol Acc MGI 87929
A09	UPFM0874743	ENSMUST000000116436.8	Ahr	ENSMUSG0000019256	aryl-hydrocarbon receptor Source MGI Symbol Acc MGI 105043
A10	UPFM0737307	ENSMUST000000137448.1	Alad	ENSMUSG0000028393	aminolevulinate, delta-, dehydratase Source MGI Symbol Acc MGI 96853
A11	UPFM0775665	ENSMUST000000225337.2	Aldh1a1	ENSMUSG0000053279	aldehyde dehydrogenase family 1, subfamily A1 Source MGI Symbol Acc MGI 1353450
A12	UPFM1007863	ENSMUST000000108574.2	Alox12	ENSMUSG0000000320	arachidonate 12-lipoxygenase Source MGI Symbol Acc MGI 87998
B01	UPFM0663199	ENSMUST00000019068.6	Alox15	ENSMUSG0000018924	arachidonate 15-lipoxygenase Source MGI Symbol Acc MGI 87997
B02	UPFM0677095	ENSMUST000000164547.7	Alox5	ENSMUSG00000025701	arachidonate 5-lipoxygenase Source MGI Symbol Acc MGI 87999
B03	UPFM0926421	ENSMUST000000172808.1	Apoe	ENSMUSG0000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
B04	UPFM0842446	ENSMUST000000156653.7	Arnt	ENSMUSG0000015522	aryl hydrocarbon receptor nuclear translocator Source MGI Symbol Acc MGI 88071
B05	UPFM0916824	ENSMUST000000211702.1	Asna1	ENSMUSG0000052456	arsA arsenite transporter, ATP-binding, homolog 1 (bacterial) Source MGI Symbol Acc MGI 1928379
B06	UPFM0720628	ENSMUST000000135529.7	Blvra	ENSMUSG0000001999	biliverdin reductase A Source MGI Symbol Acc MGI 88170
B07	UPFM0657811	ENSMUST000000037399.15	Blvrb	ENSMUSG0000040466	biliverdin reductase B (flavin reductase (NADPH)) Source MGI Symbol Acc MGI 2385271
B08	UPFM0924068	ENSMUST000000044602.7	Ces1g	ENSMUSG0000057074	carboxylesterase 1G Source MGI Symbol Acc MGI 88378
B09	UPFM0682236	ENSMUST000000055052.5	Ces2c	ENSMUSG00000061825	carboxylesterase 2C Source MGI Symbol Acc MGI 2385905
B10	UPFM0740709	ENSMUST000000065797.6	Chst1	ENSMUSG0000027221	carbohydrate sulfotransferase 1 Source MGI Symbol Acc MGI 1924219
B11	UPFM0879297	ENSMUST000000165430.7	Comt	ENSMUSG0000000326	catechol-O-methyltransferase Source MGI Symbol Acc MGI 88470
B12	UPFM0936615	ENSMUST000000162834.2	Cyb5r3	ENSMUSG0000018042	cytochrome b5 reductase 3 Source MGI Symbol Acc MGI 94893
C01	UPFM0947485	ENSMUST000000167634.1	Cyp11b2	ENSMUSG0000022589	cytochrome P450, family 11, subfamily b, polypeptide 2 Source MGI Symbol Acc MGI 88584
C02	UPFM0634205	ENSMUST000000026012.7	Cyp17a1	ENSMUSG0000003555	cytochrome P450, family 17, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88586
C03	UPFM0746201	ENSMUST000000215736.1	Cyp19a1	ENSMUSG0000032274	cytochrome P450, family 19, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88587
C04	UPFM0767951	ENSMUST000000034865.5	Cyp1a1	ENSMUSG0000032315	cytochrome P450, family 1, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88588
C05	UPFM0858949	ENSMUST000000034860.4	Cyp1a2	ENSMUSG0000032310	cytochrome P450, family 1, subfamily a, polypeptide 2 Source MGI Symbol Acc MGI 88589
C06	UPFM0820497	ENSMUST000000165764.7	Cyp27b1	ENSMUSG0000006724	cytochrome P450, family 27, subfamily b, polypeptide 1 Source MGI Symbol Acc MGI 1098274
C07	UPFM0900018	ENSMUST000000003137.14	Cyp2c29	ENSMUSG0000003053	cytochrome P450, family 2, subfamily c, polypeptide 29 Source MGI Symbol Acc MGI 103238
C08	UPFM0815665	ENSMUST000000210403.1	Cyp2e1	ENSMUSG0000025479	cytochrome P450, family 2, subfamily e, polypeptide 1 Source MGI Symbol Acc MGI 88607
C09	UPFM1002463	ENSMUST000000035918.7	Cyp3a11	ENSMUSG0000056035	cytochrome P450, family 3, subfamily a, polypeptide 11 Source MGI Symbol Acc MGI 88609
C10	UPFM0676125	ENSMUST000000067479.5	Cyp3a44	ENSMUSG0000054417	cytochrome P450, family 3, subfamily a, polypeptide 44 Source MGI Symbol Acc MGI 2449818
	UPFM093669	ENSMUST000000		ENSMUSG00	cytochrome P450, family 4, subfamily b, polypeptide 1 Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	0	135569.7	Cyp4b1	000028713	MGI 103225
C12	UPFM082864 9	ENSMUST00000 111068.7	Ephx1	ENSMUSG00 000038776	epoxide hydrolase 1, microsomal Source MGI Symbol Acc MGI 95405
D01	UPFM061929 1	ENSMUST00000 225309.1	Ephx2	ENSMUSG00 000022040	epoxide hydrolase 2, cytoplasmic Source MGI Symbol Acc MGI 99500
D02	UPFM089844 5	ENSMUST00000 143724.7	Faah	ENSMUSG00 000034171	fatty acid amide hydrolase Source MGI Symbol Acc MGI 109609
D03	UPFM072819 2	ENSMUST00000 150013.1	Fbp1	ENSMUSG00 000069805	fructose biphosphatase 1 Source MGI Symbol Acc MGI 95492
D04	UPFM065398 9	ENSMUST00000 130998.7	Gad1	ENSMUSG00 000070880	glutamate decarboxylase 1 Source MGI Symbol Acc MGI 95632
D05	UPFM064863 7	ENSMUST00000 028123.3	Gad2	ENSMUSG00 000026787	glutamic acid decarboxylase 2 Source MGI Symbol Acc MGI 95634
D06	UPFM081437 1	ENSMUST00000 202312.3	Gckr	ENSMUSG00 000059434	glucokinase regulatory protein Source MGI Symbol Acc MGI 1096345
D07	UPFM066823 1	ENSMUST00000 143226.7	Ggt1	ENSMUSG00 000006345	gamma-glutamyltransferase 1 Source MGI Symbol Acc MGI 95706
D08	UPFM070892 8	ENSMUST00000 205865.1	Gpi1	ENSMUSG00 000036427	glucose phosphate isomerase 1 Source MGI Symbol Acc MGI 95797
D09	UPFM091057 8	ENSMUST00000 193987.1	Gpx1	ENSMUSG00 000063856	glutathione peroxidase 1 Source MGI Symbol Acc MGI 104887
D10	UPFM099994 6	ENSMUST00000 221421.1	Gpx2	ENSMUSG00 000042808	glutathione peroxidase 2 Source MGI Symbol Acc MGI 106609
D11	UPFM087429 4	ENSMUST00000 149324.1	Gpx3	ENSMUSG00 000018339	glutathione peroxidase 3 Source MGI Symbol Acc MGI 105102
D12	UPFM097898 8	ENSMUST00000 110491.8	Gpx5	ENSMUSG00 000004344	glutathione peroxidase 5 Source MGI Symbol Acc MGI 104886
E01	UPFM072352 2	ENSMUST00000 033992.8	Gsr	ENSMUSG00 000031584	glutathione reductase Source MGI Symbol Acc MGI 95804
E02	UPFM096830 8	ENSMUST00000 127192.1	Gsta1	ENSMUSG00 000074183	glutathione S-transferase, alpha 1 (Ya) Source MGI Symbol Acc MGI 1095417
E03	UPFM074737 4	ENSMUST00000 027067.14	Gsta3	ENSMUSG00 000025934	glutathione S-transferase, alpha 3 Source MGI Symbol Acc MGI 95856
E04	UPFM065559 8	ENSMUST00000 213215.1	Gsta4	ENSMUSG00 000032348	glutathione S-transferase, alpha 4 Source MGI Symbol Acc MGI 1309515
E05	UPFM071827 2	ENSMUST00000 126593.2	Gstm1	ENSMUSG00 000058135	glutathione S-transferase, mu 1 Source MGI Symbol Acc MGI 95860
E06	UPFM066621 8	ENSMUST00000 012348.8	Gstm2	ENSMUSG00 000040562	glutathione S-transferase, mu 2 Source MGI Symbol Acc MGI 95861
E07	UPFM074073 6	ENSMUST00000 004136.9	Gstm3	ENSMUSG00 000004038	glutathione S-transferase, mu 3 Source MGI Symbol Acc MGI 106026
E08	UPFM062236 2	ENSMUST00000 178808.7	Gstm4	ENSMUSG00 000027890	glutathione S-transferase, mu 4 Source MGI Symbol Acc MGI 95862
E09	UPFM075072 7	ENSMUST00000 170058.7	Gstm5	ENSMUSG00 000004032	glutathione S-transferase, mu 5 Source MGI Symbol Acc MGI 1309466
E10	UPFM078306 5	ENSMUST00000 237893.1	Gstp1	ENSMUSG00 000060803	glutathione S-transferase, pi 1 Source MGI Symbol Acc MGI 95865
E11	UPFM078444 7	ENSMUST00000 139724.2	Gstt1	ENSMUSG00 000001663	glutathione S-transferase, theta 1 Source MGI Symbol Acc MGI 107379
E12	UPFM100154 7	ENSMUST00000 220574.1	Gstz1	ENSMUSG00 000021033	glutathione transferase zeta 1 (maleylacetoacetate isomerase) Source MGI Symbol Acc MGI 1341859
F01	UPFM074256 7	ENSMUST00000 000642.10	Hk2	ENSMUSG00 000000628	hexokinase 2 Source MGI Symbol Acc MGI 1315197
F02	UPFM093572 3	ENSMUST00000 019445.5	Hsd17b1	ENSMUSG00 000019301	hydroxysteroid (17-beta) dehydrogenase 1 Source MGI Symbol Acc MGI 105077
F03	UPFM074192 1	ENSMUST00000 034304.8	Hsd17b2	ENSMUSG00 000031844	hydroxysteroid (17-beta) dehydrogenase 2 Source MGI Symbol Acc MGI 1096386
F04	UPFM096349 5	ENSMUST00000 166224.7	Hsd17b3	ENSMUSG00 000033122	hydroxysteroid (17-beta) dehydrogenase 3 Source MGI Symbol Acc MGI 107177
F05	UPFM083358 3	ENSMUST00000 157004.1	Lpo	ENSMUSG00 000009356	lactoperoxidase Source MGI Symbol Acc MGI 1923363
F06	UPFM081393 3	ENSMUST00000 118091.7	Mgst1	ENSMUSG00 000008540	microsomal glutathione S-transferase 1 Source MGI Symbol Acc MGI 1913850
F07	UPFM073509 0	ENSMUST00000 159554.6	Mgst2	ENSMUSG00 000074604	microsomal glutathione S-transferase 2 Source MGI Symbol Acc MGI 2448481
F08	UPFM080107 5	ENSMUST00000 028005.2	Mgst3	ENSMUSG00 000026688	microsomal glutathione S-transferase 3 Source MGI Symbol Acc MGI 1913697
F09	UPFM097324 1	ENSMUST00000 121303.7	Mpo	ENSMUSG00 000009350	myeloperoxidase Source MGI Symbol Acc MGI 97137
F10	UPFM073110 0	ENSMUST00000 034214.7	Mt2	ENSMUSG00 000031762	metallothionein 2 Source MGI Symbol Acc MGI 97172

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM088507 0	ENSMUST00000 211915.1	Mt3	ENSMUSG00 000031760	metallothionein 3 Source MGI Symbol Acc MGI 97173
F12	UPFM087025 2	ENSMUST00000 152498.7	Mthfr	ENSMUSG00 000029009	methylenetetrahydrofolate reductase Source MGI Symbol Acc MGI 106639
G01	UPFM071643 2	ENSMUST00000 212171.1	Nat1	ENSMUSG00 000025588	N-acetyl transferase 1 Source MGI Symbol Acc MGI 97279
G02	UPFM065279 2	ENSMUST00000 163856.2	Nat2	ENSMUSG00 000051147	N-acetyltransferase 2 (arylamine N-acetyltransferase) Source MGI Symbol Acc MGI 109201
G03	UPFM067358 1	ENSMUST00000 115090.5	Nos3	ENSMUSG00 000028978	nitric oxide synthase 3, endothelial cell Source MGI Symbol Acc MGI 97362
G04	UPFM063067 7	ENSMUST00000 003947.8	Nqo1	ENSMUSG00 000003849	NAD(P)H dehydrogenase, quinone 1 Source MGI Symbol Acc MGI 103187
G05	UPFM096059 1	ENSMUST00000 047111.12	Pklr	ENSMUSG00 000041237	pyruvate kinase liver and red blood cell Source MGI Symbol Acc MGI 97604
G06	UPFM087867 4	ENSMUST00000 213220.1	Pkm	ENSMUSG00 000032294	pyruvate kinase, muscle Source MGI Symbol Acc MGI 97591
G07	UPFM098847 0	ENSMUST00000 002663.11	Pon1	ENSMUSG00 000002588	paraoxonase 1 Source MGI Symbol Acc MGI 103295
G08	UPFM097694 3	ENSMUST00000 123838.7	Pon2	ENSMUSG00 000032667	paraoxonase 2 Source MGI Symbol Acc MGI 106687
G09	UPFM084096 2	ENSMUST00000 176948.2	Pon3	ENSMUSG00 000029759	paraoxonase 3 Source MGI Symbol Acc MGI 106686
G10	UPFM071835 4	ENSMUST00000 228962.1	Snn	ENSMUSG00 000037972	stannin Source MGI Symbol Acc MGI 1276549
G11	UPFM077498 8	ENSMUST00000 220731.1	Srd5a1	ENSMUSG00 000021594	steroid 5 alpha-reductase 1 Source MGI Symbol Acc MGI 98400
G12	UPFM097252 8	ENSMUST00000 043458.8	Srd5a2	ENSMUSG00 000038541	steroid 5 alpha-reductase 2 Source MGI Symbol Acc MGI 2150380
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.

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 or can be requested from QIAGEN Technical Services or your local distributor.

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