

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

Mouse Drug Transporters

Cat. no. 249955 UPMM-070ZA

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 for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Abca1	Abca12	Abca13	Abca2	Abca3	Abca4	Abca9	Abcb11	Abcb1a	Abcb1b	Abcb4	Abcb5
B	Abcb6	Abcc1	Abcc10	Abcc12	Abcc2	Abcc3	Abcc4	Abcc5	Abcc6	Abcd1	Abcd3	Abcd4
C	Abcf1	Abcg2	Abcg8	Aqp1	Aqp7	Aqp9	Atp6v0c	Atp7a	Atp7b	Mvp	Slc10a1	Slc10a2
D	Slc15a1	Slc15a2	Slc16a1	Slc16a2	Slc16a3	Slc19a1	Slc19a2	Slc22a1	Slc22a19	Slc22a2	Slc22a3	Slc22a6
E	Slc22a7	Slc22a8	Slc25a13	Slc28a1	Slc28a2	Slc29a1	Slc29a2	Slc2a1	Slc2a2	Slc2a3	Slc31a1	Slc38a2
F	Slc38a5	Slc3a1	Slc3a2	Slc5a1	Slc5a4a	Slc7a11	Slc7a4	Slc7a5	Slc7a6	Slc7a7	Slc7a8	Slc7a9
G	Slco1a4	Slco1a5	Slco1a6	Slco1b2	Slco2a1	Slco2b1	Slco3a1	Slco4a1	Tap1	Tap2	Vdac1	Vdac2
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	UPFM1007913	ENSMUST00000030010.3	Abca1	ENSMUSG0000015243	ATP-binding cassette, sub-family A (ABC1), member 1 Source MGI Symbol Acc MGI 99607
A02	UPFM0710954	ENSMUST00000187097.6	Abca12	ENSMUSG0000050296	ATP-binding cassette, sub-family A (ABC1), member 12 Source MGI Symbol Acc MGI 2676312
A03	UPFM0647974	ENSMUST00000042740.12	Abca13	ENSMUSG0000004668	ATP-binding cassette, sub-family A (ABC1), member 13 Source MGI Symbol Acc MGI 2388707
A04	UPFM1008933	ENSMUST00000149385.7	Abca2	ENSMUSG0000026944	ATP-binding cassette, sub-family A (ABC1), member 2 Source MGI Symbol Acc MGI 99606
A05	UPFM0794128	ENSMUST00000149233.7	Abca3	ENSMUSG0000024130	ATP-binding cassette, sub-family A (ABC1), member 3 Source MGI Symbol Acc MGI 1351617
A06	UPFM0915965	ENSMUST00000136358.2	Abca4	ENSMUSG0000028125	ATP-binding cassette, sub-family A (ABC1), member 4 Source MGI Symbol Acc MGI 109424
A07	UPFM0690266	ENSMUST00000126499.1	Abca9	ENSMUSG0000041797	ATP-binding cassette, sub-family A (ABC1), member 9 Source MGI Symbol Acc MGI 2386796
A08	UPFM0904623	ENSMUST00000102710.9	Abcb11	ENSMUSG0000027048	ATP-binding cassette, sub-family B (MDR/TAP), member 11 Source MGI Symbol Acc MGI 1351619
A09	UPFM0783609	ENSMUST00000047753.4	Abcb1a	ENSMUSG0000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A10	UPFM0825422	ENSMUST00000009058.9	Abcb1b	ENSMUSG0000028970	ATP-binding cassette, sub-family B (MDR/TAP), member 1B Source MGI Symbol Acc MGI 97568
A11	UPFM0710830	ENSMUST00000003717.12	Abcb4	ENSMUSG0000042476	ATP-binding cassette, sub-family B (MDR/TAP), member 4 Source MGI Symbol Acc MGI 97569
A12	UPFM0625710	ENSMUST00000100982.4	Abcb5	ENSMUSG0000072791	ATP-binding cassette, sub-family B (MDR/TAP), member 5 Source MGI Symbol Acc MGI 1924956
B01	UPFM0908964	ENSMUST00000160757.1	Abcb6	ENSMUSG0000026198	ATP-binding cassette, sub-family B (MDR/TAP), member 6 Source MGI Symbol Acc MGI 1921354
B02	UPFM0766084	ENSMUST00000144676.2	Abcc1	ENSMUSG0000023088	ATP-binding cassette, sub-family C (CFTR/MRP), member 1 Source MGI Symbol Acc MGI 102676
B03	UPFM0739297	ENSMUST00000047970.13	Abcc10	ENSMUSG0000032842	ATP-binding cassette, sub-family C (CFTR/MRP), member 10 Source MGI Symbol Acc MGI 2386976
B04	UPFM0869840	ENSMUST00000131806.7	Abcc12	ENSMUSG0000036872	ATP-binding cassette, sub-family C (CFTR/MRP), member 12 Source MGI Symbol Acc MGI 2441679
B05	UPFM0989363	ENSMUST00000143553.1	Abcc2	ENSMUSG0000025194	ATP-binding cassette, sub-family C (CFTR/MRP), member 2 Source MGI Symbol Acc MGI 1352447
B06	UPFM0934121	ENSMUST00000021231.7	Abcc3	ENSMUSG0000020865	ATP-binding cassette, sub-family C (CFTR/MRP), member 3 Source MGI Symbol Acc MGI 1923658
B07	UPFM0918523	ENSMUST00000228848.1	Abcc4	ENSMUSG0000032849	ATP-binding cassette, sub-family C (CFTR/MRP), member 4 Source MGI Symbol Acc MGI 2443111
B08	UPFM0936491	ENSMUST00000096199.4	Abcc5	ENSMUSG0000022822	ATP-binding cassette, sub-family C (CFTR/MRP), member 5 Source MGI Symbol Acc MGI 1351644
B09	UPFM0987002	ENSMUST00000002850.7	Abcc6	ENSMUSG0000030834	ATP-binding cassette, sub-family C (CFTR/MRP), member 6 Source MGI Symbol Acc MGI 1351634
B10	UPFM0897329	ENSMUST00000114461.2	Abcd1	ENSMUSG0000031378	ATP-binding cassette, sub-family D (ALD), member 1 Source MGI Symbol Acc MGI 1349215
B11	UPFM0665622	ENSMUST00000197662.4	Abcd3	ENSMUSG0000028127	ATP-binding cassette, sub-family D (ALD), member 3 Source MGI Symbol Acc MGI 1349216
B12	UPFM0994453	ENSMUST00000223107.1	Abcd4	ENSMUSG0000021240	ATP-binding cassette, sub-family D (ALD), member 4 Source MGI Symbol Acc MGI 1349217
C01	UPFM0804788	ENSMUST00000172661.1	Abcf1	ENSMUSG0000038762	ATP-binding cassette, sub-family F (GCN20), member 1 Source MGI Symbol Acc MGI 1351658
C02	UPFM0861129	ENSMUST00000147213.7	Abcg2	ENSMUSG0000029802	ATP binding cassette subfamily G member 2 (Junior blood group) Source MGI Symbol Acc MGI 1347061
C03	UPFM0899078	ENSMUST00000045714.14	Abcg8	ENSMUSG0000024254	ATP binding cassette subfamily G member 8 Source MGI Symbol Acc MGI 1914720
C04	UPFM0933902	ENSMUST00000004774.3	Aqp1	ENSMUSG0000004655	aquaporin 1 Source MGI Symbol Acc MGI 103201
C05	UPFM0730476	ENSMUST00000030136.12	Aqp7	ENSMUSG0000028427	aquaporin 7 Source MGI Symbol Acc MGI 1314647
C06	UPFM0790027	ENSMUST00000113570.7	Aqp9	ENSMUSG0000032204	aquaporin 9 Source MGI Symbol Acc MGI 1891066
C07	UPFM0969467	ENSMUST00000024932.11	Atp6v0c	ENSMUSG0000024121	ATPase, H+ transporting, lysosomal V0 subunit C Source MGI Symbol Acc MGI 88116
C08	UPFM0733378	ENSMUST00000133875.1	Atp7a	ENSMUSG0000033792	ATPase, Cu++ transporting, alpha polypeptide Source MGI Symbol Acc MGI 99400
C09	UPFM0974374	ENSMUST00000110738.2	Atp7b	ENSMUSG0000006567	ATPase, Cu++ transporting, beta polypeptide Source MGI Symbol Acc MGI 103297
C10	UPFM0618358	ENSMUST00000165096.8	Mvp	ENSMUSG0000030681	major vault protein Source MGI Symbol Acc MGI 1925638
	UPFM086610	ENSMUST00000		ENSMUSG00	solute carrier family 10 (sodium/bile acid cotransporter family), member 1

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	218342.1	Slc10a1	000021135	Source MGI Symbol Acc MGI 97379
C12	UPFM0962080	ENSMUST00000023835.2	Slc10a2	ENSMUSG0000023073	solute carrier family 10, member 2 Source MGI Symbol Acc MGI 1201406
D01	UPFM0846321	ENSMUST00000227372.1	Slc15a1	ENSMUSG0000025557	solute carrier family 15 (oligopeptide transporter), member 1 Source MGI Symbol Acc MGI 1861376
D02	UPFM0762332	ENSMUST00000164579.7	Slc15a2	ENSMUSG0000022899	solute carrier family 15 (H+/peptide transporter), member 2 Source MGI Symbol Acc MGI 1890457
D03	UPFM0982224	ENSMUST00000046212.1	Slc16a1	ENSMUSG0000032902	solute carrier family 16 (monocarboxylic acid transporters), member 1 Source MGI Symbol Acc MGI 106013
D04	UPFM0643714	ENSMUST00000171837.1	Slc16a2	ENSMUSG0000033965	solute carrier family 16 (monocarboxylic acid transporters), member 2 Source MGI Symbol Acc MGI 1203732
D05	UPFM0683147	ENSMUST00000140467.1	Slc16a3	ENSMUSG0000025161	solute carrier family 16 (monocarboxylic acid transporters), member 3 Source MGI Symbol Acc MGI 1933438
D06	UPFM0838471	ENSMUST00000144234.7	Slc19a1	ENSMUSG0000001436	solute carrier family 19 (folate transporter), member 1 Source MGI Symbol Acc MGI 103182
D07	UPFM0920591	ENSMUST00000044021.11	Slc19a2	ENSMUSG0000040918	solute carrier family 19 (thiamine transporter), member 2 Source MGI Symbol Acc MGI 1928761
D08	UPFM0994173	ENSMUST00000024596.9	Slc22a1	ENSMUSG0000023829	solute carrier family 22 (organic cation transporter), member 1 Source MGI Symbol Acc MGI 108111
D09	UPFM0686436	ENSMUST00000138317.1	Slc22a19	ENSMUSG0000024757	solute carrier family 22 (organic anion transporter), member 19 Source MGI Symbol Acc MGI 2442751
D10	UPFM0983576	ENSMUST00000046959.8	Slc22a2	ENSMUSG0000040966	solute carrier family 22 (organic cation transporter), member 2 Source MGI Symbol Acc MGI 1335072
D11	UPFM0746326	ENSMUST00000233535.1	Slc22a3	ENSMUSG0000023828	solute carrier family 22 (organic cation transporter), member 3 Source MGI Symbol Acc MGI 1333817
D12	UPFM0748538	ENSMUST00000010250.3	Slc22a6	ENSMUSG0000024650	solute carrier family 22 (organic anion transporter), member 6 Source MGI Symbol Acc MGI 892001
E01	UPFM0642415	ENSMUST00000233715.1	Slc22a7	ENSMUSG0000067144	solute carrier family 22 (organic anion transporter), member 7 Source MGI Symbol Acc MGI 1859559
E02	UPFM0827734	ENSMUST00000010251.10	Slc22a8	ENSMUSG0000063796	solute carrier family 22 (organic anion transporter), member 8 Source MGI Symbol Acc MGI 1336187
E03	UPFM0895201	ENSMUST00000015256.14	Slc25a13	ENSMUSG0000015112	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 13 Source MGI Symbol Acc MGI 1354721
E04	UPFM0824521	ENSMUST00000026820.10	Slc28a1	ENSMUSG0000025726	solute carrier family 28 (sodium-coupled nucleoside transporter), member 1 Source MGI Symbol Acc MGI 3605073
E05	UPFM0848563	ENSMUST000000110524.1	Slc28a2	ENSMUSG0000027219	solute carrier family 28 (sodium-coupled nucleoside transporter), member 2 Source MGI Symbol Acc MGI 1913105
E06	UPFM0684585	ENSMUST000000168274.1	Slc29a1	ENSMUSG0000023942	solute carrier family 29 (nucleoside transporters), member 1 Source MGI Symbol Acc MGI 1927073
E07	UPFM0755519	ENSMUST000000236152.1	Slc29a2	ENSMUSG0000024891	solute carrier family 29 (nucleoside transporters), member 2 Source MGI Symbol Acc MGI 1345278
E08	UPFM0999407	ENSMUST000000208090.1	Slc2a1	ENSMUSG0000028645	solute carrier family 2 (facilitated glucose transporter), member 1 Source MGI Symbol Acc MGI 95755
E09	UPFM0629545	ENSMUST00000029240.13	Slc2a2	ENSMUSG0000027690	solute carrier family 2 (facilitated glucose transporter), member 2 Source MGI Symbol Acc MGI 1095438
E10	UPFM1008595	ENSMUST00000032476.10	Slc2a3	ENSMUSG0000003153	solute carrier family 2 (facilitated glucose transporter), member 3 Source MGI Symbol Acc MGI 95757
E11	UPFM0956806	ENSMUST00000084526.11	Slc31a1	ENSMUSG0000066150	solute carrier family 31, member 1 Source MGI Symbol Acc MGI 1333843
E12	UPFM0896638	ENSMUST00000023099.7	Slc38a2	ENSMUSG0000022462	solute carrier family 38, member 2 Source MGI Symbol Acc MGI 1915010
F01	UPFM0782163	ENSMUST000000127103.7	Slc38a5	ENSMUSG00000031170	solute carrier family 38, member 5 Source MGI Symbol Acc MGI 2148066
F02	UPFM0772139	ENSMUST00000024944.8	Slc3a1	ENSMUSG0000024131	solute carrier family 3, member 1 Source MGI Symbol Acc MGI 1195264
F03	UPFM1000416	ENSMUST000000205377.1	Slc3a2	ENSMUSG0000010095	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 Source MGI Symbol Acc MGI 96955
F04	UPFM0738274	ENSMUST00000011178.4	Slc5a1	ENSMUSG0000011034	solute carrier family 5 (sodium/glucose cotransporter), member 1 Source MGI Symbol Acc MGI 107678
F05	UPFM0980746	ENSMUST00000020450.3	Slc5a4a	ENSMUSG0000020229	solute carrier family 5, member 4a Source MGI Symbol Acc MGI 1927848
F06	UPFM0682338	ENSMUST000000142932.2	Slc7a11	ENSMUSG0000027737	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11 Source MGI Symbol Acc MGI 1347355
F07	UPFM0836190	ENSMUST000000232226.1	Slc7a4	ENSMUSG0000022756	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4 Source MGI Symbol Acc MGI 2146512
F08	UPFM0848142	ENSMUST000000182165.1	Slc7a5	ENSMUSG0000040010	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5 Source MGI Symbol Acc MGI 1298205
F09	UPFM0701577	ENSMUST000000212837.1	Slc7a6	ENSMUSG0000031904	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 Source MGI Symbol Acc MGI 2142598
F10	UPFM0694055	ENSMUST000000195970.4	Slc7a7	ENSMUSG0000000958	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7 Source MGI Symbol Acc MGI 1337120

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0817306	ENSMUST00000022787.7	Slc7a8	ENSMUSG00000022180	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 Source MGI Symbol Acc MGI 1355323
F12	UPFM0632517	ENSMUST00000118383.7	Slc7a9	ENSMUSG00000030492	solute carrier family 7 (cationic amino acid transporter, y+ system), member 9 Source MGI Symbol Acc MGI 1353656
G01	UPFM0715235	ENSMUST00000032364.13	Slco1a4	ENSMUSG00000030237	solute carrier organic anion transporter family, member 1a4 Source MGI Symbol Acc MGI 1351896
G02	UPFM0974048	ENSMUST00000111825.9	Slco1a5	ENSMUSG00000063975	solute carrier organic anion transporter family, member 1a5 Source MGI Symbol Acc MGI 1351865
G03	UPFM0985518	ENSMUST00000111827.3	Slco1a6	ENSMUSG00000079262	solute carrier organic anion transporter family, member 1a6 Source MGI Symbol Acc MGI 1351906
G04	UPFM0740845	ENSMUST00000042812.8	Slco1b2	ENSMUSG00000030236	solute carrier organic anion transporter family, member 1b2 Source MGI Symbol Acc MGI 1351899
G05	UPFM0674340	ENSMUST00000188664.1	Slco2a1	ENSMUSG00000032548	solute carrier organic anion transporter family, member 2a1 Source MGI Symbol Acc MGI 1346021
G06	UPFM0812550	ENSMUST00000107086.8	Slco2b1	ENSMUSG00000030737	solute carrier organic anion transporter family, member 2b1 Source MGI Symbol Acc MGI 1351872
G07	UPFM0837303	ENSMUST00000136389.1	Slco3a1	ENSMUSG00000025790	solute carrier organic anion transporter family, member 3a1 Source MGI Symbol Acc MGI 1351867
G08	UPFM0954378	ENSMUST00000038259.12	Slco4a1	ENSMUSG00000038963	solute carrier organic anion transporter family, member 4a1 Source MGI Symbol Acc MGI 1351866
G09	UPFM0694518	ENSMUST00000171148.1	Tap1	ENSMUSG00000037321	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) Source MGI Symbol Acc MGI 98483
G10	UPFM0636416	ENSMUST00000127543.7	Tap2	ENSMUSG00000024339	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) Source MGI Symbol Acc MGI 98484
G11	UPFM0958801	ENSMUST00000020673.2	Vdac1	ENSMUSG00000020402	voltage-dependent anion channel 1 Source MGI Symbol Acc MGI 106919
G12	UPFM0862244	ENSMUST00000147715.1	Vdac2	ENSMUSG00000021771	voltage-dependent anion channel 2 Source MGI Symbol Acc MGI 106915
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	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 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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