

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

Mouse Drug Transporters

Cat. no. 249950 SBMM-070ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA 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 PCR System 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	Aap1	Aap7	Aap9	Atp6v0c	Atp7a	Atp7b	Myp	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 PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM1010551	ENSMUST00000030010.3	Abca1	ENSMUSG0000015243	ATP-binding cassette, sub-family A (ABC1), member 1 Source MGI Symbol Acc MGI 99607
A02	SBM0676135	ENSMUST00000187097.6	Abca12	ENSMUSG0000050296	ATP-binding cassette, sub-family A (ABC1), member 12 Source MGI Symbol Acc MGI 2676312
A03	SBM0841828	ENSMUST00000141233.1	Abca13	ENSMUSG0000004668	ATP-binding cassette, sub-family A (ABC1), member 13 Source MGI Symbol Acc MGI 2388707
A04	SBM0969687	ENSMUST00000149385.7	Abca2	ENSMUSG0000026944	ATP-binding cassette, sub-family A (ABC1), member 2 Source MGI Symbol Acc MGI 99606
A05	SBM0823053	ENSMUST00000149233.7	Abca3	ENSMUSG0000024130	ATP-binding cassette, sub-family A (ABC1), member 3 Source MGI Symbol Acc MGI 1351617
A06	SBM0953603	ENSMUST00000136358.2	Abca4	ENSMUSG0000028125	ATP-binding cassette, sub-family A (ABC1), member 4 Source MGI Symbol Acc MGI 109424
A07	SBM0834279	ENSMUST00000044850.3	Abca9	ENSMUSG00000041797	ATP-binding cassette, sub-family A (ABC1), member 9 Source MGI Symbol Acc MGI 2386796
A08	SBM0908032	ENSMUST00000180142.1	Abcb11	ENSMUSG0000027048	ATP-binding cassette, sub-family B (MDR/TAP), member 11 Source MGI Symbol Acc MGI 1351619
A09	SBM1065613	ENSMUST00000126846.1	Abcb1a	ENSMUSG0000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A10	SBM1012642	ENSMUST00000009058.9	Abcb1b	ENSMUSG0000028970	ATP-binding cassette, sub-family B (MDR/TAP), member 1B Source MGI Symbol Acc MGI 97568
A11	SBM0989061	ENSMUST00000197458.1	Abcb4	ENSMUSG0000042476	ATP-binding cassette, sub-family B (MDR/TAP), member 4 Source MGI Symbol Acc MGI 97569
A12	SBM1032154	ENSMUST00000035515.4	Abcb5	ENSMUSG0000072791	ATP-binding cassette, sub-family B (MDR/TAP), member 5 Source MGI Symbol Acc MGI 1924956
B01	SBM0816650	ENSMUST00000160757.1	Abcb6	ENSMUSG0000026198	ATP-binding cassette, sub-family B (MDR/TAP), member 6 Source MGI Symbol Acc MGI 1921354
B02	SBM0861683	ENSMUST00000147759.7	Abcc1	ENSMUSG0000023088	ATP-binding cassette, sub-family C (CFTR/MRP), member 1 Source MGI Symbol Acc MGI 102676
B03	SBM0898668	ENSMUST00000168490.1	Abcc10	ENSMUSG0000032842	ATP-binding cassette, sub-family C (CFTR/MRP), member 10 Source MGI Symbol Acc MGI 2386976
B04	SBM1087093	ENSMUST00000131806.7	Abcc12	ENSMUSG0000036872	ATP-binding cassette, sub-family C (CFTR/MRP), member 12 Source MGI Symbol Acc MGI 2441679
B05	SBM1002449	ENSMUST00000026208.5	Abcc2	ENSMUSG0000025194	ATP-binding cassette, sub-family C (CFTR/MRP), member 2 Source MGI Symbol Acc MGI 1352447
B06	SBM0751766	ENSMUST00000151124.7	Abcc3	ENSMUSG0000020865	ATP-binding cassette, sub-family C (CFTR/MRP), member 3 Source MGI Symbol Acc MGI 1923658
B07	SBM0986206	ENSMUST00000036554.13	Abcc4	ENSMUSG0000032849	ATP-binding cassette, sub-family C (CFTR/MRP), member 4 Source MGI Symbol Acc MGI 2443111
B08	SBM0674265	ENSMUST00000134962.1	Abcc5	ENSMUSG0000022822	ATP-binding cassette, sub-family C (CFTR/MRP), member 5 Source MGI Symbol Acc MGI 1351644
B09	SBM0675682	ENSMUST00000002850.7	Abcc6	ENSMUSG0000030834	ATP-binding cassette, sub-family C (CFTR/MRP), member 6 Source MGI Symbol Acc MGI 1351634
B10	SBM0819153	ENSMUST00000002084.13	Abcd1	ENSMUSG0000031378	ATP-binding cassette, sub-family D (ALD), member 1 Source MGI Symbol Acc MGI 1349215
B11	SBM0722099	ENSMUST00000029770.7	Abcd3	ENSMUSG0000028127	ATP-binding cassette, sub-family D (ALD), member 3 Source MGI Symbol Acc MGI 1349216
B12	SBM0761853	ENSMUST00000223107.1	Abcd4	ENSMUSG0000021240	ATP-binding cassette, sub-family D (ALD), member 4 Source MGI Symbol Acc MGI 1349217
C01	SBM1052421	ENSMUST00000172661.1	Abcf1	ENSMUSG0000038762	ATP-binding cassette, sub-family F (GCN20), member 1 Source MGI Symbol Acc MGI 1351658
C02	SBM0956969	ENSMUST00000145161.7	Abcg2	ENSMUSG0000029802	ATP binding cassette subfamily G member 2 (Junior blood group) Source MGI Symbol Acc MGI 1347061
C03	SBM0999273	ENSMUST00000045714.14	Abcg8	ENSMUSG0000024254	ATP binding cassette subfamily G member 8 Source MGI Symbol Acc MGI 1914720
C04	SBM1015203	ENSMUST00000004774.3	Aqp1	ENSMUSG0000004655	aquaporin 1 Source MGI Symbol Acc MGI 103201
C05	SBM0974182	ENSMUST00000030136.12	Aqp7	ENSMUSG0000028427	aquaporin 7 Source MGI Symbol Acc MGI 1314647
C06	SBM0710078	ENSMUST00000060917.11	Aqp9	ENSMUSG0000032204	aquaporin 9 Source MGI Symbol Acc MGI 1891066
C07	SBM0759378	ENSMUST00000024932.11	Atp6v0c	ENSMUSG0000024121	ATPase, H+ transporting, lysosomal V0 subunit C Source MGI Symbol Acc MGI 88116
C08	SBM0812051	ENSMUST00000055941.6	Atp7a	ENSMUSG0000033792	ATPase, Cu++ transporting, alpha polypeptide Source MGI Symbol Acc MGI 99400
C09	SBM0968671	ENSMUST00000110738.2	Atp7b	ENSMUSG0000006567	ATPase, Cu++ transporting, beta polypeptide Source MGI Symbol Acc MGI 103297
C10	SBM1052583	ENSMUST00000165096.8	Mvp	ENSMUSG0000030681	major vault protein Source MGI Symbol Acc MGI 1925638
		ENSMUST00000000000.0		ENSMUSG00000000000.0	solute carrier family 10 (sodium/bile acid cotransporter family), member 1

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0743403	218342.1	Slc10a1	000021135	Source MGI Symbol Acc MGI 97379
C12	SBM0851631	ENSMUST00000 023835.2	Slc10a2	ENSMUSG00 000023073	solute carrier family 10, member 2 Source MGI Symbol Acc MGI 1201406
D01	SBM0789577	ENSMUST00000 227372.1	Slc15a1	ENSMUSG00 000025557	solute carrier family 15 (oligopeptide transporter), member 1 Source MGI Symbol Acc MGI 1861376
D02	SBM0719334	ENSMUST00000 165531.7	Slc15a2	ENSMUSG00 000022899	solute carrier family 15 (H+/peptide transporter), member 2 Source MGI Symbol Acc MGI 1890457
D03	SBM0910682	ENSMUST00000 046212.1	Slc16a1	ENSMUSG00 000032902	solute carrier family 16 (monocarboxylic acid transporters), member 1 Source MGI Symbol Acc MGI 106013
D04	SBM0789886	ENSMUST00000 148684.2	Slc16a2	ENSMUSG00 000033965	solute carrier family 16 (monocarboxylic acid transporters), member 2 Source MGI Symbol Acc MGI 1203732
D05	SBM0881693	ENSMUST00000 154187.7	Slc16a3	ENSMUSG00 000025161	solute carrier family 16 (monocarboxylic acid transporters), member 3 Source MGI Symbol Acc MGI 1933438
D06	SBM1084560	ENSMUST00000 132984.1	Slc19a1	ENSMUSG00 000001436	solute carrier family 19 (folate transporter), member 1 Source MGI Symbol Acc MGI 103182
D07	SBM0806007	ENSMUST00000 169394.1	Slc19a2	ENSMUSG00 000040918	solute carrier family 19 (thiamine transporter), member 2 Source MGI Symbol Acc MGI 1928761
D08	SBM0744363	ENSMUST00000 233691.1	Slc22a1	ENSMUSG00 000023829	solute carrier family 22 (organic cation transporter), member 1 Source MGI Symbol Acc MGI 108111
D09	SBM0843659	ENSMUST00000 141771.1	Slc22a19	ENSMUSG00 000024757	solute carrier family 22 (organic anion transporter), member 19 Source MGI Symbol Acc MGI 2442751
D10	SBM1042099	ENSMUST00000 046959.8	Slc22a2	ENSMUSG00 000040966	solute carrier family 22 (organic cation transporter), member 2 Source MGI Symbol Acc MGI 1335072
D11	SBM0678832	ENSMUST00000 233535.1	Slc22a3	ENSMUSG00 000023828	solute carrier family 22 (organic cation transporter), member 3 Source MGI Symbol Acc MGI 1333817
D12	SBM0707103	ENSMUST00000 010250.3	Slc22a6	ENSMUSG00 000024650	solute carrier family 22 (organic anion transporter), member 6 Source MGI Symbol Acc MGI 892001
E01	SBM0815807	ENSMUST00000 087012.6	Slc22a7	ENSMUSG00 000067144	solute carrier family 22 (organic anion transporter), member 7 Source MGI Symbol Acc MGI 1859559
E02	SBM0801292	ENSMUST00000 010251.10	Slc22a8	ENSMUSG00 000063796	solute carrier family 22 (organic anion transporter), member 8 Source MGI Symbol Acc MGI 1336187
E03	SBM0672778	ENSMUST00000 177698.3	Slc25a13	ENSMUSG00 000015112	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 13 Source MGI Symbol Acc MGI 1354721
E04	SBM0814963	ENSMUST00000 119083.1	Slc28a1	ENSMUSG00 000025726	solute carrier family 28 (sodium-coupled nucleoside transporter), member 1 Source MGI Symbol Acc MGI 3605073
E05	SBM1218428	ENSMUST00000 110524.1	Slc28a2	ENSMUSG00 000027219	solute carrier family 28 (sodium-coupled nucleoside transporter), member 2 Source MGI Symbol Acc MGI 1913105
E06	SBM0894698	ENSMUST00000 064889.12	Slc29a1	ENSMUSG00 000023942	solute carrier family 29 (nucleoside transporters), member 1 Source MGI Symbol Acc MGI 1927073
E07	SBM0723126	ENSMUST00000 025826.6	Slc29a2	ENSMUSG00 000024891	solute carrier family 29 (nucleoside transporters), member 2 Source MGI Symbol Acc MGI 1345278
E08	SBM1008931	ENSMUST00000 144329.7	Slc2a1	ENSMUSG00 000028645	solute carrier family 2 (facilitated glucose transporter), member 1 Source MGI Symbol Acc MGI 95755
E09	SBM0691206	ENSMUST00000 163536.7	Slc2a2	ENSMUSG00 000027690	solute carrier family 2 (facilitated glucose transporter), member 2 Source MGI Symbol Acc MGI 1095438
E10	SBM1000736	ENSMUST00000 168801.1	Slc2a3	ENSMUSG00 000003153	solute carrier family 2 (facilitated glucose transporter), member 3 Source MGI Symbol Acc MGI 95757
E11	SBM0784542	ENSMUST00000 122092.1	Slc31a1	ENSMUSG00 000066150	solute carrier family 31, member 1 Source MGI Symbol Acc MGI 1333843
E12	SBM1002110	ENSMUST00000 023099.7	Slc38a2	ENSMUSG00 000022462	solute carrier family 38, member 2 Source MGI Symbol Acc MGI 1915010
F01	SBM1091099	ENSMUST00000 033512.10	Slc38a5	ENSMUSG00 000003170	solute carrier family 38, member 5 Source MGI Symbol Acc MGI 2148066
F02	SBM1052242	ENSMUST00000 024944.8	Slc3a1	ENSMUSG00 000024131	solute carrier family 3, member 1 Source MGI Symbol Acc MGI 1195264
F03	SBM0931791	ENSMUST00000 205463.1	Slc3a2	ENSMUSG00 000010095	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 Source MGI Symbol Acc MGI 96955
F04	SBM0897631	ENSMUST00000 011178.4	Slc5a1	ENSMUSG00 000011034	solute carrier family 5 (sodium/glucose cotransporter), member 1 Source MGI Symbol Acc MGI 107678
F05	SBM1054178	ENSMUST00000 020450.3	Slc5a4a	ENSMUSG00 000020229	solute carrier family 5, member 4a Source MGI Symbol Acc MGI 1927848
F06	SBM0737852	ENSMUST00000 142932.2	Slc7a11	ENSMUSG00 000027737	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11 Source MGI Symbol Acc MGI 1347355
F07	SBM0851272	ENSMUST00000 232226.1	Slc7a4	ENSMUSG00 000022756	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4 Source MGI Symbol Acc MGI 2146512
F08	SBM0730064	ENSMUST00000 182165.1	Slc7a5	ENSMUSG00 000040010	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5 Source MGI Symbol Acc MGI 1298205
F09	SBM0678142	ENSMUST00000 212837.1	Slc7a6	ENSMUSG00 000031904	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 Source MGI Symbol Acc MGI 2142598
F10	SBM0922132	ENSMUST00000 197440.4	Slc7a7	ENSMUSG00 000000958	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	SBM0839891	ENSMUST00000022787.7	Slc7a8	ENSMUSG0000022180	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 Source MGI Symbol Acc MGI 1355323
F12	SBM1017301	ENSMUST00000032703.9	Slc7a9	ENSMUSG0000030492	solute carrier family 7 (cationic amino acid transporter, y+ system), member 9 Source MGI Symbol Acc MGI 1353656
G01	SBM0839221	ENSMUST00000032364.13	Slco1a4	ENSMUSG0000030237	solute carrier organic anion transporter family, member 1a4 Source MGI Symbol Acc MGI 1351896
G02	SBM0695878	ENSMUST00000081380.9	Slco1a5	ENSMUSG0000063975	solute carrier organic anion transporter family, member 1a5 Source MGI Symbol Acc MGI 1351865
G03	SBM0882335	ENSMUST00000111827.3	Slco1a6	ENSMUSG0000079262	solute carrier organic anion transporter family, member 1a6 Source MGI Symbol Acc MGI 1351906
G04	SBM0721775	ENSMUST00000162675.1	Slco1b2	ENSMUSG0000030236	solute carrier organic anion transporter family, member 1b2 Source MGI Symbol Acc MGI 1351899
G05	SBM0967620	ENSMUST00000188664.1	Slco2a1	ENSMUSG0000032548	solute carrier organic anion transporter family, member 2a1 Source MGI Symbol Acc MGI 1346021
G06	SBM0985034	ENSMUST00000145381.7	Slco2b1	ENSMUSG0000030737	solute carrier organic anion transporter family, member 2b1 Source MGI Symbol Acc MGI 1351872
G07	SBM0736809	ENSMUST00000098371.8	Slco3a1	ENSMUSG0000025790	solute carrier organic anion transporter family, member 3a1 Source MGI Symbol Acc MGI 1351867
G08	SBM1025483	ENSMUST00000038259.12	Slco4a1	ENSMUSG0000038963	solute carrier organic anion transporter family, member 4a1 Source MGI Symbol Acc MGI 1351866
G09	SBM0946737	ENSMUST00000166582.1	Tap1	ENSMUSG0000037321	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) Source MGI Symbol Acc MGI 98483
G10	SBM0945253	ENSMUST00000025197.5	Tap2	ENSMUSG0000024339	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) Source MGI Symbol Acc MGI 98484
G11	SBM1083071	ENSMUST00000102758.7	Vdac1	ENSMUSG0000020402	voltage-dependent anion channel 1 Source MGI Symbol Acc MGI 106919
G12	SBM0856316	ENSMUST00000152562.7	Vdac2	ENSMUSG0000021771	voltage-dependent anion channel 2 Source MGI Symbol Acc MGI 106915
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control



Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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