

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

Human Drug Transporters

Cat. no. 249950 SBHS-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	ABCA5	ABCA9	ABCB1	ABCB11	ABCB4	ABCB5
B	ABCB6	ABCC1	ABCC10	ABCC11	ABCC12	ABCC2	ABCC3	ABCC4	ABCC5	ABCD1	ABCD3	ABCD4
C	ABCF1	ABCG2	ABCG8	AQP1	AQP7	AQP9	ATP6V0C	ATP7A	ATP7B	MVP	SLC10A1	SLC10A2
D	SLC15A1	SLC15A2	SLC16A1	SLC16A2	SLC16A3	SLC19A1	SLC19A2	SLC19A3	SLC22A1	SLC22A2	SLC22A3	SLC22A6
E	SLC22A7	SLC22A8	SLC22A9	SLC25A13	SLC28A1	SLC28A2	SLC28A3	SLC29A1	SLC29A2	SLC2A1	SLC2A2	SLC2A3
F	SLC31A1	SLC38A2	SLC38A5	SLC3A1	SLC3A2	SLC5A1	SLC5A4	SLC7A11	SLC7A5	SLC7A6	SLC7A7	SLC7A8
G	SLC7A9	SLCO1A2	SLCO1B1	SLCO1B3	SLCO2A1	SLCO2B1	SLCO3A1	SLCO4A1	TAP1	TAP2	VDAC1	VDAC2
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0311739	ENST00000423487.6	ABCA1	ENSG00000165029	ATP binding cassette subfamily A member 1 Source HGNC Symbol Acc HGNC 29
A02	SBH0495469	ENST00000272895.12	ABCA12	ENSG00000144452	ATP binding cassette subfamily A member 12 Source HGNC Symbol Acc HGNC 14637
A03	SBH0480906	ENST00000611776.4	ABCA13	ENSG00000179869	ATP binding cassette subfamily A member 13 Source HGNC Symbol Acc HGNC 14638
A04	SBH0398917	ENST00000470535.2	ABCA2	ENSG00000107331	ATP binding cassette subfamily A member 2 Source HGNC Symbol Acc HGNC 32
A05	SBH0351432	ENST00000567910.1	ABCA3	ENSG00000167972	ATP binding cassette subfamily A member 3 Source HGNC Symbol Acc HGNC 33
A06	SBH0599941	ENST00000470771.1	ABCA4	ENSG00000198691	ATP binding cassette subfamily A member 4 Source HGNC Symbol Acc HGNC 34
A07	SBH0331081	ENST00000593253.5	ABCA5	ENSG00000154265	ATP binding cassette subfamily A member 5 Source HGNC Symbol Acc HGNC 35
A08	SBH0550961	ENST00000495634.5	ABCA9	ENSG00000154258	ATP binding cassette subfamily A member 9 Source HGNC Symbol Acc HGNC 39
A09	SBH0346091	ENST00000622132.4	ABCB1	ENSG00000085563	ATP binding cassette subfamily B member 1 Source HGNC Symbol Acc HGNC 40
A10	SBH0651110	ENST00000650372.1	ABCB11	ENSG00000073734	ATP binding cassette subfamily B member 11 Source HGNC Symbol Acc HGNC 42
A11	SBH0585650	ENST00000469770.1	ABCB4	ENSG00000005471	ATP binding cassette subfamily B member 4 Source HGNC Symbol Acc HGNC 45
A12	SBH0347703	ENST00000477094.5	ABCB5	ENSG00000004846	ATP binding cassette subfamily B member 5 Source HGNC Symbol Acc HGNC 46
B01	SBH0300509	ENST00000492543.1	ABCB6	ENSG000000115657	ATP binding cassette subfamily B member 6 (Langereis blood group) Source HGNC Symbol Acc HGNC 47
B02	SBH0544598	ENST00000575422.5	ABCC1	ENSG000000103222	ATP binding cassette subfamily C member 1 Source HGNC Symbol Acc HGNC 51
B03	SBH0172409	ENST00000469856.1	ABCC10	ENSG000000124574	ATP binding cassette subfamily C member 10 Source HGNC Symbol Acc HGNC 52
B04	SBH0413392	ENST00000394748.5	ABCC11	ENSG000000121270	ATP binding cassette subfamily C member 11 Source HGNC Symbol Acc HGNC 14639
B05	SBH0464214	ENST00000534418.5	ABCC12	ENSG000000140798	ATP binding cassette subfamily C member 12 Source HGNC Symbol Acc HGNC 14640
B06	SBH0620483	ENST00000649932.1	ABCC2	ENSG000000023839	ATP binding cassette subfamily C member 2 Source HGNC Symbol Acc HGNC 53
B07	SBH0597013	ENST00000503337.1	ABCC3	ENSG000000108846	ATP binding cassette subfamily C member 3 Source HGNC Symbol Acc HGNC 54
B08	SBH0603818	ENST00000376887.9	ABCC4	ENSG000000125257	ATP binding cassette subfamily C member 4 Source HGNC Symbol Acc HGNC 55
B09	SBH0509688	ENST00000427120.6	ABCC5	ENSG000000114770	ATP binding cassette subfamily C member 5 Source HGNC Symbol Acc HGNC 56
B10	SBH0399420	ENST00000370129.4	ABCD1	ENSG000000101986	ATP binding cassette subfamily D member 1 Source HGNC Symbol Acc HGNC 61
B11	SBH0421705	ENST00000315713.5	ABCD3	ENSG000000117528	ATP binding cassette subfamily D member 3 Source HGNC Symbol Acc HGNC 67
B12	SBH0276783	ENST00000469672.5	ABCD4	ENSG000000119688	ATP binding cassette subfamily D member 4 Source HGNC Symbol Acc HGNC 68
C01	SBH0663692	ENST00000441867.5	ABCF1	ENSG000000204574	ATP binding cassette subfamily F member 1 Source HGNC Symbol Acc HGNC 70
C02	SBH0422197	ENST00000503830.2	ABCG2	ENSG000000118777	ATP binding cassette subfamily G member 2 (Junior blood group) Source HGNC Symbol Acc HGNC 74
C03	SBH0574766	ENST00000644611.1	ABCG8	ENSG000000143921	ATP binding cassette subfamily G member 8 Source HGNC Symbol Acc HGNC 13887
C04	SBH0349409	ENST00000482461.1	AQP1	ENSG000000240583	aquaporin 1 (Colton blood group) Source HGNC Symbol Acc HGNC 633
C05	SBH0254306	ENST00000439678.5	AQP7	ENSG000000165269	aquaporin 7 Source HGNC Symbol Acc HGNC 640
C06	SBH0124167	ENST00000558772.5	AQP9	ENSG000000103569	aquaporin 9 Source HGNC Symbol Acc HGNC 643
C07	SBH0543128	ENST00000565223.1	ATP6VOC	ENSG000000185883	ATPase H+ transporting V0 subunit c Source HGNC Symbol Acc HGNC 855
C08	SBH0171031	ENST00000343533.9	ATP7A	ENSG000000165240	ATPase copper transporting alpha Source HGNC Symbol Acc HGNC 869
C09	SBH0357801	ENST00000448424.6	ATP7B	ENSG000000123191	ATPase copper transporting beta Source HGNC Symbol Acc HGNC 870
C10	SBH0507275	ENST00000562463.5	MVP	ENSG000000013364	major vault protein Source HGNC Symbol Acc HGNC 7531
		ENST000000216		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0201781	540.5	SLC10A1	100652	solute carrier family 10 member 1 Source HGNC Symbol Acc HGNC 10905
C12	SBH0318136	ENST00000245312.4	SLC10A2	ENSG00000125255	solute carrier family 10 member 2 Source HGNC Symbol Acc HGNC 10906
D01	SBH0042031	ENST00000376503.10	SLC15A1	ENSG00000088386	solute carrier family 15 member 1 Source HGNC Symbol Acc HGNC 10920
D02	SBH0650018	ENST00000295605.6	SLC15A2	ENSG00000163406	solute carrier family 15 member 2 Source HGNC Symbol Acc HGNC 10921
D03	SBH0572295	ENST00000538576.5	SLC16A1	ENSG00000155380	solute carrier family 16 member 1 Source HGNC Symbol Acc HGNC 10922
D04	SBH0648973	ENST00000590447.1	SLC16A2	ENSG00000147100	solute carrier family 16 member 2 Source HGNC Symbol Acc HGNC 10923
D05	SBH0175803	ENST00000578684.5	SLC16A3	ENSG00000141526	solute carrier family 16 member 3 Source HGNC Symbol Acc HGNC 10924
D06	SBH0090749	ENST00000650808.1	SLC19A1	ENSG00000173638	solute carrier family 19 member 1 Source HGNC Symbol Acc HGNC 10937
D07	SBH0497909	ENST00000646527.1	SLC19A2	ENSG00000117479	solute carrier family 19 member 2 Source HGNC Symbol Acc HGNC 10938
D08	SBH0360687	ENST00000419059.1	SLC19A3	ENSG00000135917	solute carrier family 19 member 3 Source HGNC Symbol Acc HGNC 16266
D09	SBH0297400	ENST00000460902.2	SLC22A1	ENSG00000175003	solute carrier family 22 member 1 Source HGNC Symbol Acc HGNC 10963
D10	SBH0238583	ENST00000491092.1	SLC22A2	ENSG00000112499	solute carrier family 22 member 2 Source HGNC Symbol Acc HGNC 10966
D11	SBH0308103	ENST00000275300.3	SLC22A3	ENSG00000146477	solute carrier family 22 member 3 Source HGNC Symbol Acc HGNC 10967
D12	SBH0654288	ENST00000377871.7	SLC22A6	ENSG00000197901	solute carrier family 22 member 6 Source HGNC Symbol Acc HGNC 10970
E01	SBH0356988	ENST00000372589.7	SLC22A7	ENSG00000137204	solute carrier family 22 member 7 Source HGNC Symbol Acc HGNC 10971
E02	SBH0507034	ENST00000542904.1	SLC22A8	ENSG00000149452	solute carrier family 22 member 8 Source HGNC Symbol Acc HGNC 10972
E03	SBH0640402	ENST00000279178.3	SLC22A9	ENSG00000149742	solute carrier family 22 member 9 Source HGNC Symbol Acc HGNC 16261
E04	SBH0151182	ENST00000416240.6	SLC25A13	ENSG00000004864	solute carrier family 25 member 13 Source HGNC Symbol Acc HGNC 10983
E05	SBH0239581	ENST00000286749.3	SLC28A1	ENSG00000156222	solute carrier family 28 member 1 Source HGNC Symbol Acc HGNC 11001
E06	SBH0233207	ENST00000560767.1	SLC28A2	ENSG00000137860	solute carrier family 28 member 2 Source HGNC Symbol Acc HGNC 11002
E07	SBH0037156	ENST00000495823.1	SLC28A3	ENSG00000197506	solute carrier family 28 member 3 Source HGNC Symbol Acc HGNC 16484
E08	SBH0497761	ENST00000643152.1	SLC29A1	ENSG00000112759	solute carrier family 29 member 1 (Augustine blood group) Source HGNC Symbol Acc HGNC 11003
E09	SBH0647755	ENST00000546034.1	SLC29A2	ENSG00000174669	solute carrier family 29 member 2 Source HGNC Symbol Acc HGNC 11004
E10	SBH0102394	ENST00000426263.8	SLC2A1	ENSG00000117394	solute carrier family 2 member 1 Source HGNC Symbol Acc HGNC 11005
E11	SBH0303859	ENST00000471379.1	SLC2A2	ENSG00000163581	solute carrier family 2 member 2 Source HGNC Symbol Acc HGNC 11006
E12	SBH0631058	ENST00000476634.1	SLC2A3	ENSG00000059804	solute carrier family 2 member 3 Source HGNC Symbol Acc HGNC 11007
F01	SBH0061332	ENST00000374212.5	SLC31A1	ENSG00000136868	solute carrier family 31 member 1 Source HGNC Symbol Acc HGNC 11016
F02	SBH0387577	ENST00000256689.10	SLC38A2	ENSG00000134294	solute carrier family 38 member 2 Source HGNC Symbol Acc HGNC 13448
F03	SBH0249054	ENST00000619100.4	SLC38A5	ENSG00000017483	solute carrier family 38 member 5 Source HGNC Symbol Acc HGNC 18070
F04	SBH0374041	ENST00000409387.5	SLC3A1	ENSG00000138079	solute carrier family 3 member 1 Source HGNC Symbol Acc HGNC 11025
F05	SBH0457225	ENST00000537508.5	SLC3A2	ENSG00000168003	solute carrier family 3 member 2 Source HGNC Symbol Acc HGNC 11026
F06	SBH0517326	ENST00000266088.8	SLC5A1	ENSG00000100170	solute carrier family 5 member 1 Source HGNC Symbol Acc HGNC 11036
F07	SBH0408015	ENST00000266086.5	SLC5A4	ENSG00000100191	solute carrier family 5 member 4 Source HGNC Symbol Acc HGNC 11039
F08	SBH0313752	ENST00000509248.1	SLC7A11	ENSG00000151012	solute carrier family 7 member 11 Source HGNC Symbol Acc HGNC 11059
F09	SBH0382215	ENST00000563489.1	SLC7A5	ENSG00000103257	solute carrier family 7 member 5 Source HGNC Symbol Acc HGNC 11063
F10	SBH0354607	ENST00000219343.11	SLC7A6	ENSG00000103064	solute carrier family 7 member 6 Source HGNC Symbol Acc HGNC 11064

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0585585	ENST00000397532.7	SLC7A7	ENSG00000155465	solute carrier family 7 member 7 Source HGNC Symbol Acc HGNC 11065
F12	SBH0035006	ENST00000397310.6	SLC7A8	ENSG00000092068	solute carrier family 7 member 8 Source HGNC Symbol Acc HGNC 11066
G01	SBH0025807	ENST00000590341.5	SLC7A9	ENSG00000021488	solute carrier family 7 member 9 Source HGNC Symbol Acc HGNC 11067
G02	SBH0646520	ENST00000453443.5	SLCO1A2	ENSG00000084453	solute carrier organic anion transporter family member 1A2 Source HGNC Symbol Acc HGNC 10956
G03	SBH0032599	ENST00000256958.2	SLCO1B1	ENSG00000134538	solute carrier organic anion transporter family member 1B1 Source HGNC Symbol Acc HGNC 10959
G04	SBH0320011	ENST00000261196.6	SLCO1B3	ENSG00000111700	solute carrier organic anion transporter family member 1B3 Source HGNC Symbol Acc HGNC 10961
G05	SBH0589116	ENST00000462770.5	SLCO2A1	ENSG00000174640	solute carrier organic anion transporter family member 2A1 Source HGNC Symbol Acc HGNC 10955
G06	SBH0117254	ENST00000454962.6	SLCO2B1	ENSG00000137491	solute carrier organic anion transporter family member 2B1 Source HGNC Symbol Acc HGNC 10962
G07	SBH0151140	ENST0000055549.5	SLCO3A1	ENSG00000176463	solute carrier organic anion transporter family member 3A1 Source HGNC Symbol Acc HGNC 10952
G08	SBH0003702	ENST00000217159.6	SLCO4A1	ENSG00000101187	solute carrier organic anion transporter family member 4A1 Source HGNC Symbol Acc HGNC 10953
G09	SBH1220432	ENST00000354258.4	TAP1	ENSG00000168394	transporter 1, ATP binding cassette subfamily B member Source HGNC Symbol Acc HGNC 43
G10	SBH0627392	ENST00000374899.8	TAP2	ENSG00000204267	transporter 2, ATP binding cassette subfamily B member Source HGNC Symbol Acc HGNC 44
G11	SBH0183050	ENST00000489906.5	VDAC1	ENSG00000213585	voltage dependent anion channel 1 Source HGNC Symbol Acc HGNC 12669
G12	SBH0442383	ENST00000543351.5	VDAC2	ENSG00000165637	voltage dependent anion channel 2 Source HGNC Symbol Acc HGNC 12672
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human 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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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