

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

Mouse Hepatotoxicity

Cat. no. 249950 SBMM-093ZR

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	Abcb11	Abcb1a	Abcb4	Abcc2	Abcc3	Aldoa	Apex1	Asah1	Atp8b1	Avpr1a	Fam214a	Bhmt
B	Blg2	Car3	Casp3	Ccng1	Cd36	Cd68	Cdc14b	Cdkn1a	Col4a1	Cry1l	Cxcl12	Cyp1a2
C	Ddit4l	Ddx39	Dnajb11	Dnajc3	Fabp1	Fads1	Emc9	Fasn	Fmo1	Timm10b	Gadd45a	Gclc
D	Gsr	Hao2	Hmox1	Hpn	Hyo1	Icam1	Igfals	Il6st	Ipo4	Krt18	Krt8	L2hgdh
E	Lgr5	Lpl	Lss	Maob	Map3k6	Mbl2	Mcm10	Mxipl	Mrps18b	Nqa1	Nus1	Osmr
F	Slc51a	Pdyn	Pla2g12a	Ppara	Psme3	Pygl	Rb1	Rdx	Rhbg	S100a8	Scd1	Serpina3n
G	Serpine1	Skil	Slc17a3	Slc2a3	Slc39a6	Srebf1	Tagln	Thrsp	Cemip2	Txnrd1	Wip1l	Yrdc
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	SBM0908032	ENSMUST00000180142.1	Abcb11	ENSMUSG0000027048	ATP-binding cassette, sub-family B (MDR/TAP), member 11 Source MGI Symbol Acc MGI 1351619
A02	SBM1065613	ENSMUST00000126846.1	Abcb1a	ENSMUSG0000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A03	SBM0989061	ENSMUST00000197458.1	Abcb4	ENSMUSG0000042476	ATP-binding cassette, sub-family B (MDR/TAP), member 4 Source MGI Symbol Acc MGI 97569
A04	SBM1002449	ENSMUST00000026208.5	Abcc2	ENSMUSG0000025194	ATP-binding cassette, sub-family C (CFTR/MRP), member 2 Source MGI Symbol Acc MGI 1352447
A05	SBM0751766	ENSMUST00000151124.7	Abcc3	ENSMUSG0000020865	ATP-binding cassette, sub-family C (CFTR/MRP), member 3 Source MGI Symbol Acc MGI 1923658
A06	SBM1034918	ENSMUST00000106348.7	Aldoa	ENSMUSG0000030695	aldolase A, fructose-bisphosphate Source MGI Symbol Acc MGI 87994
A07	SBM0874745	ENSMUST00000128395.1	Apex1	ENSMUSG0000035960	apurinic/apyrimidinic endonuclease 1 Source MGI Symbol Acc MGI 88042
A08	SBM0976431	ENSMUST00000034000.14	Asah1	ENSMUSG0000031591	N-acylsphingosine amidohydrolase 1 Source MGI Symbol Acc MGI 1277124
A09	SBM0708428	ENSMUST00000025482.9	Atp8b1	ENSMUSG0000039529	ATPase, class I, type 8B, member 1 Source MGI Symbol Acc MGI 1859665
A10	SBM0804326	ENSMUST00000020323.6	Avpr1a	ENSMUSG0000020123	arginine vasopressin receptor 1A Source MGI Symbol Acc MGI 1859216
A11	SBM0788635	ENSMUST00000215370.1	Fam214a	ENSMUSG0000034858	family with sequence similarity 214, member A Source MGI Symbol Acc MGI 2387648
A12	SBM0965281	ENSMUST00000099309.5	Bhmt	ENSMUSG0000074768	betaine-homocysteine methyltransferase Source MGI Symbol Acc MGI 1339972
B01	SBM0925245	ENSMUST00000020692.6	Btg2	ENSMUSG0000020423	B cell translocation gene 2, anti-proliferative Source MGI Symbol Acc MGI 108384
B02	SBM1011645	ENSMUST00000029076.5	Car3	ENSMUSG0000027559	carbonic anhydrase 3 Source MGI Symbol Acc MGI 88270
B03	SBM0732165	ENSMUST00000093517.6	Casp3	ENSMUSG0000031628	caspase 3 Source MGI Symbol Acc MGI 107739
B04	SBM0884128	ENSMUST00000020576.7	Ccng1	ENSMUSG0000020326	cyclin G1 Source MGI Symbol Acc MGI 102890
B05	SBM0818786	ENSMUST00000170051.7	Cd36	ENSMUSG0000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B06	SBM0716123	ENSMUST00000018918.11	Cd68	ENSMUSG0000018774	CD68 antigen Source MGI Symbol Acc MGI 88342
B07	SBM0837121	ENSMUST00000039318.15	Cdc14b	ENSMUSG0000033102	CDC14 cell division cycle 14B Source MGI Symbol Acc MGI 2441808
B08	SBM1034022	ENSMUST00000023829.7	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B09	SBM0696573	ENSMUST000000209598.1	Col4a1	ENSMUSG0000031502	collagen, type IV, alpha 1 Source MGI Symbol Acc MGI 88454
B10	SBM0801400	ENSMUST00000022517.8	Cry1l	ENSMUSG0000021947	crystallin, lambda 1 Source MGI Symbol Acc MGI 1915881
B11	SBM0703161	ENSMUST00000134244.1	Cxcl12	ENSMUSG0000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
B12	SBM0864852	ENSMUST00000034860.4	Cyp1a2	ENSMUSG0000032310	cytochrome P450, family 1, subfamily a, polypeptide 2 Source MGI Symbol Acc MGI 88589
C01	SBM1078706	ENSMUST00000165845.1	Ddit4l	ENSMUSG0000046818	DNA-damage-inducible transcript 4-like Source MGI Symbol Acc MGI 1920534
C02	SBM0773401	ENSMUST00000138789.1	Ddx39	ENSMUSG0000005481	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39 Source MGI Symbol Acc MGI 1915528
C03	SBM0727604	ENSMUST00000004574.13	Dnajb11	ENSMUSG0000004460	DnaJ heat shock protein family (Hsp40) member B11 Source MGI Symbol Acc MGI 1915088
C04	SBM1063097	ENSMUST00000022734.8	Dnajc3	ENSMUSG0000022136	DnaJ heat shock protein family (Hsp40) member C3 Source MGI Symbol Acc MGI 107373
C05	SBM0729972	ENSMUST00000067492.7	Fabp1	ENSMUSG0000054422	fatty acid binding protein 1, liver Source MGI Symbol Acc MGI 95479
C06	SBM0805105	ENSMUST00000237861.1	Fads1	ENSMUSG0000010663	fatty acid desaturase 1 Source MGI Symbol Acc MGI 1923517
C07	SBM1044663	ENSMUST00000022828.8	Emc9	ENSMUSG0000022217	ER membrane protein complex subunit 9 Source MGI Symbol Acc MGI 1934682
C08	SBM1047932	ENSMUST00000206589.1	Fasn	ENSMUSG0000025153	fatty acid synthase Source MGI Symbol Acc MGI 95485
C09	SBM0866045	ENSMUST00000131058.7	Fmo1	ENSMUSG0000040181	flavin containing monooxygenase 1 Source MGI Symbol Acc MGI 1310002
C10	SBM0691844	ENSMUST00000210350.1	Timm10b	ENSMUSG0000089847	translocase of inner mitochondrial membrane 10B Source MGI Symbol Acc MGI 1315196
		ENSMUST000000		ENSMUSG00	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0962210	151958.1	Gadd45a	000036390	MGI 107799
C12	SBM1048397	ENSMUST00000034905.8	Gclc	ENSMUSG0000032350	glutamate-cysteine ligase, catalytic subunit Source MGI Symbol Acc MGI 104990
D01	SBM0942303	ENSMUST00000033992.8	Gsr	ENSMUSG0000031584	glutathione reductase Source MGI Symbol Acc MGI 95804
D02	SBM0931326	ENSMUST00000029464.8	Hao2	ENSMUSG0000027870	hydroxyacid oxidase 2 Source MGI Symbol Acc MGI 96012
D03	SBM0936413	ENSMUST00000005548.7	Hmox1	ENSMUSG0000005413	heme oxygenase 1 Source MGI Symbol Acc MGI 96163
D04	SBM1074749	ENSMUST000000165124.7	Hpn	ENSMUSG0000001249	hepsin Source MGI Symbol Acc MGI 1196620
D05	SBM0809259	ENSMUST000000160902.7	Hyou1	ENSMUSG0000032115	hypoxia up-regulated 1 Source MGI Symbol Acc MGI 108030
D06	SBM0806584	ENSMUST000000215003.1	Icam1	ENSMUSG0000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
D07	SBM0731547	ENSMUST000000234754.1	Igfals	ENSMUSG0000046070	insulin-like growth factor binding protein, acid labile subunit Source MGI Symbol Acc MGI 107973
D08	SBM0823451	ENSMUST000000183829.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
D09	SBM1045274	ENSMUST000000047131.15	Ipo4	ENSMUSG0000002319	importin 4 Source MGI Symbol Acc MGI 1923001
D10	SBM0961106	ENSMUST000000023803.7	Krt18	ENSMUSG0000023043	keratin 18 Source MGI Symbol Acc MGI 96692
D11	SBM0683062	ENSMUST000000023952.9	Krt8	ENSMUSG0000049382	keratin 8 Source MGI Symbol Acc MGI 96705
D12	SBM0680605	ENSMUST000000223387.1	L2hgdh	ENSMUSG0000020988	L-2-hydroxyglutarate dehydrogenase Source MGI Symbol Acc MGI 2384968
E01	SBM0685019	ENSMUST000000173619.1	Lgr5	ENSMUSG0000020140	leucine rich repeat containing G protein coupled receptor 5 Source MGI Symbol Acc MGI 1341817
E02	SBM1060657	ENSMUST000000015712.14	Lpl	ENSMUSG0000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E03	SBM0789895	ENSMUST000000159013.7	Lss	ENSMUSG0000033105	lanosterol synthase Source MGI Symbol Acc MGI 1336155
E04	SBM0839056	ENSMUST000000040820.12	Maob	ENSMUSG0000040147	monoamine oxidase B Source MGI Symbol Acc MGI 96916
E05	SBM0841444	ENSMUST000000030677.6	Map3k6	ENSMUSG0000028862	mitogen-activated protein kinase kinase 6 Source MGI Symbol Acc MGI 1855691
E06	SBM0936795	ENSMUST000000025797.6	Mbl2	ENSMUSG0000024863	mannose-binding lectin (protein C) 2 Source MGI Symbol Acc MGI 96924
E07	SBM0888681	ENSMUST000000150091.7	Mcm10	ENSMUSG0000026669	minichromosome maintenance 10 replication initiation factor Source MGI Symbol Acc MGI 1917274
E08	SBM0844253	ENSMUST000000202431.3	Mlxip1	ENSMUSG0000005373	MLX interacting protein-like Source MGI Symbol Acc MGI 1927999
E09	SBM0753802	ENSMUST000000025305.15	Mrps18b	ENSMUSG0000024436	mitochondrial ribosomal protein S18B Source MGI Symbol Acc MGI 1914223
E10	SBM0878519	ENSMUST000000003947.8	Nqo1	ENSMUSG0000003849	NAD(P)H dehydrogenase, quinone 1 Source MGI Symbol Acc MGI 103187
E11	SBM0903446	ENSMUST000000218983.1	Nus1	ENSMUSG0000023068	NUS1 dehydrodolichyl diphosphate synthase subunit Source MGI Symbol Acc MGI 1196365
E12	SBM0732075	ENSMUST000000177478.1	Osmr	ENSMUSG0000022146	oncostatin M receptor Source MGI Symbol Acc MGI 1330819
F01	SBM0676636	ENSMUST000000042042.8	Slc51a	ENSMUSG0000035699	solute carrier family 51, alpha subunit Source MGI Symbol Acc MGI 2146634
F02	SBM0795904	ENSMUST000000152113.1	Pdyn	ENSMUSG0000027400	prodynorphin Source MGI Symbol Acc MGI 97535
F03	SBM0797975	ENSMUST000000196838.4	Pla2g12a	ENSMUSG0000027999	phospholipase A2, group X1IA Source MGI Symbol Acc MGI 1913600
F04	SBM0952484	ENSMUST000000138813.7	Ppara	ENSMUSG0000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F05	SBM0960617	ENSMUST000000019470.13	Psme3	ENSMUSG0000078652	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma, Ki) Source MGI Symbol Acc MGI 1096366
F06	SBM0822392	ENSMUST000000166609.1	Pygl	ENSMUSG0000021069	liver glycogen phosphorylase Source MGI Symbol Acc MGI 97829
F07	SBM0795530	ENSMUST000000168495.1	Rb1	ENSMUSG0000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F08	SBM0856664	ENSMUST000000061352.10	Rdx	ENSMUSG0000032050	radixin Source MGI Symbol Acc MGI 97887
F09	SBM0944005	ENSMUST000000171887.3	Rhbg	ENSMUSG0000104445	Rhesus blood group-associated B glycoprotein Source MGI Symbol Acc MGI 1927379
F10	SBM0822839	ENSMUST000000198156.1	S100a8	ENSMUSG0000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0890897	ENSMUST00000236824.1	Scd1	ENSMUSG00000037071	stearoyl-Coenzyme A desaturase 1 Source MGI Symbol Acc MGI 98239
F12	SBM0672861	ENSMUST00000021506.5	Serpina3n	ENSMUSG00000021091	serine (or cysteine) peptidase inhibitor, clade A, member 3N Source MGI Symbol Acc MGI 105045
G01	SBM0809699	ENSMUST00000041388.10	Serpine1	ENSMUSG00000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
G02	SBM0711751	ENSMUST00000029194.11	Skil	ENSMUSG00000027660	SKI-like Source MGI Symbol Acc MGI 106203
G03	SBM0917537	ENSMUST00000110422.2	Slc17a3	ENSMUSG00000036083	solute carrier family 17 (sodium phosphate), member 3 Source MGI Symbol Acc MGI 2389216
G04	SBM1000736	ENSMUST00000168801.1	Slc2a3	ENSMUSG00000003153	solute carrier family 2 (facilitated glucose transporter), member 3 Source MGI Symbol Acc MGI 95757
G05	SBM1087377	ENSMUST00000070726.9	Slc39a6	ENSMUSG00000024270	solute carrier family 39 (metal ion transporter), member 6 Source MGI Symbol Acc MGI 2147279
G06	SBM0984070	ENSMUST00000020846.7	Srebf1	ENSMUSG00000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G07	SBM0866636	ENSMUST000000216035.1	Tagln	ENSMUSG00000032085	transgelin Source MGI Symbol Acc MGI 106012
G08	SBM0873145	ENSMUST00000043077.7	Thrsp	ENSMUSG00000035686	thyroid hormone responsive Source MGI Symbol Acc MGI 109126
G09	SBM0767489	ENSMUST00000096194.8	Cemip2	ENSMUSG00000024754	cell migration inducing hyaluronidase 2 Source MGI Symbol Acc MGI 1890373
G10	SBM1225401	ENSMUST000000218694.1	Txnrd1	ENSMUSG00000020250	thioredoxin reductase 1 Source MGI Symbol Acc MGI 1354175
G11	SBM0944548	ENSMUST000000103060.9	Wipi1	ENSMUSG00000041895	WD repeat domain, phosphoinositide interacting 1 Source MGI Symbol Acc MGI 1261864
G12	SBM0993980	ENSMUST000000102628.10	Yrdc	ENSMUSG00000028889	yrdC domain containing (E.coli) Source MGI Symbol Acc MGI 2387201
H01	SBM1220560	ENSMUST000000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST000000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST000000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST000000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST000000166469.7	Hsp90ab1	ENSMUSG00000023944	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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