

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

Mouse Necrosis

Cat. no. 249950 SBMM-141ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	9430015G10 Rik	Aifm1	Atp6v1g2	Bax	Bid	Birc3	Bmf	Bnip3l	Capn1	Capn2	Capn3	Capn5
B	Capn6	Capn7	Capn1	Casp8ap2	Ccdc103	Cd40	Comm4	Cyba	Cybb	Cyld	Defb1	Dennd4a
C	Dpysl4	Eda2r	Elf5b	Fadd	Faf1	Fas	Fasl	Fem1b	Foxl1	Fus	Galnt5	Glut1
D	Glul	Grb2	Hspbp1	Ikkg	Jph3	Kcnp1	Pidd1	Madd	Mag	Mgea5	Myd88	Nfkb1
E	Ngf	Ngfr	Bex3	Nox1	Nox4	Olf1404	Parp1	Parp2	Ppia	Ppid	Pvr	Pygl
F	Rab25	Ripk1	Ripk2	Ripk3	S100a7a	Slc25a4	Spata2	Sycp2	Tmem123	Maco1	Tnf	Tnfrsf10b
G	Tnfrsf14	Tnfrsf17	Tnfrsf1a	Tnfrsf1b	Tnfrsf25	Tnfrsf4	Tnfrsf8	Tnfrsf10	Tnfrsf15	Tradd	Traf2	Txn14b
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	SBM0775383	ENSMUST00000127332.7	9430015G10Rik	ENSMUSG0000059939	RIKEN cDNA 9430015G10 gene Source MGI Symbol Acc MGI 2444364
A02	SBM0871924	ENSMUST00000143466.7	Aifm1	ENSMUSG00000036932	apoptosis-inducing factor, mitochondrion-associated 1 Source MGI Symbol Acc MGI 1349419
A03	SBM0786675	ENSMUST00000130992.1	Atp6v1g2	ENSMUSG00000024403	ATPase, H+ transporting, lysosomal V1 subunit G2 Source MGI Symbol Acc MGI 1913487
A04	SBM0740166	ENSMUST00000211615.1	Bax	ENSMUSG0000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A05	SBM0938087	ENSMUST00000160684.7	Bid	ENSMUSG0000004446	BH3 interacting domain death agonist Source MGI Symbol Acc MGI 108093
A06	SBM0873926	ENSMUST00000115672.1	Birc3	ENSMUSG00000032000	baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007
A07	SBM0846761	ENSMUST00000110859.2	Bmf	ENSMUSG00000040093	BCL2 modifying factor Source MGI Symbol Acc MGI 2176433
A08	SBM0756647	ENSMUST00000129605.1	Bnip3l	ENSMUSG00000022051	BCL2/adenovirus E1B interacting protein 3-like Source MGI Symbol Acc MGI 1332659
A09	SBM0913802	ENSMUST00000025891.9	Capn1	ENSMUSG00000024942	calpain 1 Source MGI Symbol Acc MGI 88263
A10	SBM0807527	ENSMUST00000194961.1	Capn2	ENSMUSG00000026509	calpain 2 Source MGI Symbol Acc MGI 88264
A11	SBM1022511	ENSMUST00000124129.7	Capn3	ENSMUSG00000079110	calpain 3 Source MGI Symbol Acc MGI 107437
A12	SBM0780300	ENSMUST00000040971.13	Capn5	ENSMUSG00000035547	calpain 5 Source MGI Symbol Acc MGI 1100859
B01	SBM1028494	ENSMUST00000151154.1	Capn6	ENSMUSG00000067276	calpain 6 Source MGI Symbol Acc MGI 1100850
B02	SBM0731710	ENSMUST00000143472.7	Capn7	ENSMUSG00000021893	calpain 7 Source MGI Symbol Acc MGI 1338030
B03	SBM0986499	ENSMUST00000001845.12	Capns1	ENSMUSG0000001794	calpain, small subunit 1 Source MGI Symbol Acc MGI 88266
B04	SBM0948862	ENSMUST00000178925.7	Casp8ap2	ENSMUSG00000028282	caspase 8 associated protein 2 Source MGI Symbol Acc MGI 1349399
B05	SBM0829197	ENSMUST00000159834.1	Ccdc103	ENSMUSG00000020930	coiled-coil domain containing 103 Source MGI Symbol Acc MGI 1920543
B06	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B07	SBM0876592	ENSMUST00000214097.1	Commmd4	ENSMUSG00000032299	COMM domain containing 4 Source MGI Symbol Acc MGI 1913449
B08	SBM0717267	ENSMUST00000212600.1	Cyba	ENSMUSG00000006519	cytochrome b-245, alpha polypeptide Source MGI Symbol Acc MGI 1316658
B09	SBM1071421	ENSMUST00000131591.1	Cybb	ENSMUSG00000015340	cytochrome b-245, beta polypeptide Source MGI Symbol Acc MGI 88574
B10	SBM0870561	ENSMUST00000211554.1	Cyld	ENSMUSG00000036712	CYLD lysine 63 deubiquitinase Source MGI Symbol Acc MGI 1921506
B11	SBM0921214	ENSMUST00000051017.8	Defb1	ENSMUSG00000044748	defensin beta 1 Source MGI Symbol Acc MGI 1096878
B12	SBM1090271	ENSMUST00000214001.1	Dennd4a	ENSMUSG00000053641	DENN/MADD domain containing 4A Source MGI Symbol Acc MGI 2142979
C01	SBM0892898	ENSMUST00000122844.7	Dpysl4	ENSMUSG00000025478	dihydropyrimidinase-like 4 Source MGI Symbol Acc MGI 1349764
C02	SBM0675225	ENSMUST00000126283.7	Eda2r	ENSMUSG00000034457	ectodysplasin A2 receptor Source MGI Symbol Acc MGI 2442860
C03	SBM0819122	ENSMUST00000195664.1	Eif5b	ENSMUSG00000026083	eukaryotic translation initiation factor 5B Source MGI Symbol Acc MGI 2441772
C04	SBM0895464	ENSMUST00000033394.7	Fadd	ENSMUSG00000031077	Fas (TNFRSF6)-associated via death domain Source MGI Symbol Acc MGI 109324
C05	SBM1054865	ENSMUST00000155204.1	Faf1	ENSMUSG0000010517	Fas-associated factor 1 Source MGI Symbol Acc MGI 109419
C06	SBM0856649	ENSMUST00000112472.3	Fas	ENSMUSG00000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C07	SBM0967876	ENSMUST00000000834.3	Fasl	ENSMUSG00000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
C08	SBM1019069	ENSMUST00000034775.9	Fem1b	ENSMUSG00000032244	feminization 1 homolog b (C. elegans) Source MGI Symbol Acc MGI 1335087
C09	SBM0748238	ENSMUST00000060271.2	Foxi1	ENSMUSG00000047861	forkhead box I1 Source MGI Symbol Acc MGI 1096329
C10	SBM0927096	ENSMUST00000121616.8	Fus	ENSMUSG00000030795	fused in sarcoma Source MGI Symbol Acc MGI 1353633
		ENSMUST000000		ENSMUSG00	polypeptide N-acetylgalactosaminyltransferase 5 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1093507	144671.7	Galnt5	000026828	2179403
C12	SBM1042627	ENSMUST00000159784.7	Glud1	ENSMUSG0000021794	glutamate dehydrogenase 1 Source MGI Symbol Acc MGI 95753
D01	SBM1001480	ENSMUST00000139476.7	Glul	ENSMUSG0000026473	glutamate-ammonia ligase (glutamine synthetase) Source MGI Symbol Acc MGI 95739
D02	SBM1054562	ENSMUST00000106497.7	Grb2	ENSMUSG0000059923	growth factor receptor bound protein 2 Source MGI Symbol Acc MGI 95805
D03	SBM0726856	ENSMUST00000023555.5	Hspbap1	ENSMUSG0000022849	Hspb associated protein 1 Source MGI Symbol Acc MGI 1913917
D04	SBM0785643	ENSMUST00000114127.7	Ikkg	ENSMUSG0000004221	inhibitor of kappaB kinase gamma Source MGI Symbol Acc MGI 1338074
D05	SBM0906192	ENSMUST00000169735.1	Jph3	ENSMUSG0000025318	junctophilin 3 Source MGI Symbol Acc MGI 1891497
D06	SBM0776287	ENSMUST00000101368.8	Kcnp1	ENSMUSG0000053519	Kv channel-interacting protein 1 Source MGI Symbol Acc MGI 1917607
D07	SBM0904442	ENSMUST00000190068.6	Pidd1	ENSMUSG0000025507	p53 induced death domain protein 1 Source MGI Symbol Acc MGI 1889507
D08	SBM0938146	ENSMUST00000111376.7	Madd	ENSMUSG0000040687	MAP-kinase activating death domain Source MGI Symbol Acc MGI 2444672
D09	SBM0954134	ENSMUST00000188569.6	Mag	ENSMUSG0000036634	myelin-associated glycoprotein Source MGI Symbol Acc MGI 96912
D10	SBM0707826	ENSMUST00000235508.1	Mgea5	ENSMUSG0000025220	meningioma expressed antigen 5 (hyaluronidase) Source MGI Symbol Acc MGI 1932139
D11	SBM0986804	ENSMUST00000035092.6	Myd88	ENSMUSG0000032508	myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005
D12	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E01	SBM0986150	ENSMUST00000106925.8	Ngf	ENSMUSG0000027859	nerve growth factor Source MGI Symbol Acc MGI 97321
E02	SBM0740409	ENSMUST00000000122.6	Ngfr	ENSMUSG0000000120	nerve growth factor receptor (TNFR superfamily, member 16) Source MGI Symbol Acc MGI 97323
E03	SBM0791758	ENSMUST00000113113.1	Bex3	ENSMUSG0000046432	brain expressed X-linked 3 Source MGI Symbol Acc MGI 1338016
E04	SBM0993594	ENSMUST00000159231.2	Nox1	ENSMUSG0000031257	NADPH oxidase 1 Source MGI Symbol Acc MGI 2450016
E05	SBM0915544	ENSMUST00000126887.7	Nox4	ENSMUSG0000030562	NADPH oxidase 4 Source MGI Symbol Acc MGI 1354184
E06	SBM0991594	ENSMUST00000217374.1	Olf1404	ENSMUSG0000049456	olfactory receptor 1404 Source MGI Symbol Acc MGI 3031238
E07	SBM0750626	ENSMUST00000191639.1	Parp1	ENSMUSG0000026496	poly (ADP-ribose) polymerase family, member 1 Source MGI Symbol Acc MGI 1340806
E08	SBM0881717	ENSMUST00000226880.1	Parp2	ENSMUSG0000036023	poly (ADP-ribose) polymerase family, member 2 Source MGI Symbol Acc MGI 1341112
E09	SBM0829739	ENSMUST00000213200.1	Ppia	ENSMUSG0000071866	peptidylprolyl isomerase A Source MGI Symbol Acc MGI 97749
E10	SBM0932503	ENSMUST00000159505.2	Ppid	ENSMUSG0000027804	peptidylprolyl isomerase D (cyclophilin D) Source MGI Symbol Acc MGI 1914988
E11	SBM0902050	ENSMUST00000043517.7	Pvr	ENSMUSG0000040511	poliovirus receptor Source MGI Symbol Acc MGI 107741
E12	SBM0822392	ENSMUST00000166609.1	Pygl	ENSMUSG0000021069	liver glycogen phosphorylase Source MGI Symbol Acc MGI 97829
F01	SBM0805282	ENSMUST00000008745.12	Rab25	ENSMUSG0000008601	RAB25, member RAS oncogene family Source MGI Symbol Acc MGI 1858203
F02	SBM0953041	ENSMUST00000167374.8	Ripk1	ENSMUSG0000021408	receptor (TNFRSF)-interacting serine-threonine kinase 1 Source MGI Symbol Acc MGI 108212
F03	SBM0781529	ENSMUST00000037035.11	Ripk2	ENSMUSG0000041135	receptor (TNFRSF)-interacting serine-threonine kinase 2 Source MGI Symbol Acc MGI 1891456
F04	SBM0817077	ENSMUST00000178399.2	Ripk3	ENSMUSG0000022221	receptor-interacting serine-threonine kinase 3 Source MGI Symbol Acc MGI 2154952
F05	SBM0819955	ENSMUST00000079286.3	S100a7a	ENSMUSG0000063767	S100 calcium binding protein A7A Source MGI Symbol Acc MGI 2687194
F06	SBM0684591	ENSMUST00000034049.4	Slc25a4	ENSMUSG0000031633	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4 Source MGI Symbol Acc MGI 1353495
F07	SBM0714054	ENSMUST00000147051.1	Spta2	ENSMUSG0000047030	spermatogenesis associated 2 Source MGI Symbol Acc MGI 2146885
F08	SBM1082739	ENSMUST00000132611.7	Sycp2	ENSMUSG0000060445	synaptonemal complex protein 2 Source MGI Symbol Acc MGI 1933281
F09	SBM1062008	ENSMUST00000052865.15	Tmem123	ENSMUSG0000050912	transmembrane protein 123 Source MGI Symbol Acc MGI 1919179
F10	SBM1031329	ENSMUST00000030628.14	Maco1	ENSMUSG0000028826	macoilin 1 Source MGI Symbol Acc MGI 1913396

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
F12	SBM0809431	ENSMUST00000224533.1	Tnfrsf10b	ENSMUSG00000022074	tumor necrosis factor receptor superfamily, member 10b Source MGI Symbol Acc MGI 1341090
G01	SBM0771210	ENSMUST00000152687.7	Tnfrsf14	ENSMUSG00000042333	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) Source MGI Symbol Acc MGI 2675303
G02	SBM0751426	ENSMUST00000023140.5	Tnfrsf17	ENSMUSG00000022496	tumor necrosis factor receptor superfamily, member 17 Source MGI Symbol Acc MGI 1343050
G03	SBM0837100	ENSMUST00000134803.1	Tnfrsf1a	ENSMUSG00000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
G04	SBM0979488	ENSMUST00000143055.1	Tnfrsf1b	ENSMUSG00000028599	tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883
G05	SBM1006376	ENSMUST00000025706.9	Tnfrsf25	ENSMUSG00000024793	tumor necrosis factor receptor superfamily, member 25 Source MGI Symbol Acc MGI 1934667
G06	SBM0900193	ENSMUST00000143576.1	Tnfrsf4	ENSMUSG00000029075	tumor necrosis factor receptor superfamily, member 4 Source MGI Symbol Acc MGI 104512
G07	SBM0814576	ENSMUST00000123027.1	Tnfrsf8	ENSMUSG00000028602	tumor necrosis factor receptor superfamily, member 8 Source MGI Symbol Acc MGI 99908
G08	SBM0969669	ENSMUST00000046383.11	Tnfrsf10	ENSMUSG00000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G09	SBM0925177	ENSMUST00000062246.6	Tnfrsf15	ENSMUSG00000050395	tumor necrosis factor (ligand) superfamily, member 15 Source MGI Symbol Acc MGI 2180140
G10	SBM0977630	ENSMUST00000144762.7	Tradd	ENSMUSG00000031887	TNFRSF1A-associated via death domain Source MGI Symbol Acc MGI 109200
G11	SBM0686660	ENSMUST00000151742.1	Traf2	ENSMUSG00000026942	TNF receptor-associated factor 2 Source MGI Symbol Acc MGI 101835
G12	SBM0680993	ENSMUST00000178445.1	Txn14b	ENSMUSG00000031723	thioredoxin-like 4B Source MGI Symbol Acc MGI 2443724
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	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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