

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

Mouse Necrosis

Cat. no. 249955 UPMM-141ZR

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 (Rotor-Gene): QuantiNova LNA Probe 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 Probe PCR 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	Capn8	Casp8ap2	Ccdc103	Cd40	Comm4	Cyba	Cybb	Cyld	Defb1	Dennd4a
C	Dpysl4	Eda2r	Eif5b	Fadd	Faf1	Fas	Fasl	Fem1b	Foxi1	Fus	Galnt5	Glut1
D	Glul	Grb2	Hspbp1	Ikkg	Jph3	Kcnip1	Pidd1	Madd	Mag	Mgea5	Myd88	Nfkib1
E	Ngf	Ngfr	Bex3	Nox1	Nox4	Olfrl404	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	Trodd	Traf2	Txn14b
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	UPFM0683084	ENSMUST00000141882.1	9430015G10Rik	ENSMUSG00000059939	RIKEN cDNA 9430015G10 gene Source MGI Symbol Acc MGI 2444364
A02	UPFM0967726	ENSMUST00000037349.7	Aifm1	ENSMUSG00000036932	apoptosis-inducing factor, mitochondrion-associated 1 Source MGI Symbol Acc MGI 1349419
A03	UPFM0897735	ENSMUST00000130992.1	Atp6v1g2	ENSMUSG00000024403	ATPase, H+ transporting, lysosomal V1 subunit G2 Source MGI Symbol Acc MGI 1913487
A04	UPFM0903861	ENSMUST00000211195.1	Bax	ENSMUSG0000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A05	UPFM0690304	ENSMUST00000161594.1	Bid	ENSMUSG0000004446	BH3 interacting domain death agonist Source MGI Symbol Acc MGI 108093
A06	UPFM0707122	ENSMUST00000013949.14	Birc3	ENSMUSG00000032000	baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007
A07	UPFM0855832	ENSMUST00000110859.2	Bmf	ENSMUSG00000040093	BCL2 modifying factor Source MGI Symbol Acc MGI 2176433
A08	UPFM0739460	ENSMUST00000151059.7	Bnip3l	ENSMUSG00000022051	BCL2/adenovirus E1B interacting protein 3-like Source MGI Symbol Acc MGI 1332659
A09	UPFM0895337	ENSMUST00000164843.7	Capn1	ENSMUSG00000024942	calpain 1 Source MGI Symbol Acc MGI 88263
A10	UPFM0908283	ENSMUST00000068505.9	Capn2	ENSMUSG00000026509	calpain 2 Source MGI Symbol Acc MGI 88264
A11	UPFM0966768	ENSMUST00000139336.7	Capn3	ENSMUSG00000079110	calpain 3 Source MGI Symbol Acc MGI 107437
A12	UPFM0960552	ENSMUST00000040971.13	Capn5	ENSMUSG00000035547	calpain 5 Source MGI Symbol Acc MGI 1100859
B01	UPFM0696347	ENSMUST00000087316.5	Capn6	ENSMUSG00000067276	calpain 6 Source MGI Symbol Acc MGI 1100850
B02	UPFM0634764	ENSMUST00000228237.1	Capn7	ENSMUSG00000021893	calpain 7 Source MGI Symbol Acc MGI 1338030
B03	UPFM0925495	ENSMUST00000129761.7	Capns1	ENSMUSG0000001794	calpain, small subunit 1 Source MGI Symbol Acc MGI 88266
B04	UPFM0939837	ENSMUST00000108178.1	Casp8ap2	ENSMUSG00000028282	caspase 8 associated protein 2 Source MGI Symbol Acc MGI 1349399
B05	UPFM0917439	ENSMUST00000021307.9	Ccdc103	ENSMUSG00000020930	coiled-coil domain containing 103 Source MGI Symbol Acc MGI 1920543
B06	UPFM0722157	ENSMUST00000153105.1	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B07	UPFM0727783	ENSMUST00000217018.1	Comm4d	ENSMUSG00000032299	COMM domain containing 4 Source MGI Symbol Acc MGI 1913449
B08	UPFM0665153	ENSMUST00000017604.9	Cyba	ENSMUSG00000006519	cytochrome b-245, alpha polypeptide Source MGI Symbol Acc MGI 1316658
B09	UPFM0674320	ENSMUST00000131591.1	Cybb	ENSMUSG00000015340	cytochrome b-245, beta polypeptide Source MGI Symbol Acc MGI 88574
B10	UPFM1012316	ENSMUST00000209532.1	Cyld	ENSMUSG00000036712	CYLD lysine 63 deubiquitinase Source MGI Symbol Acc MGI 1921506
B11	UPFM0626557	ENSMUST00000051017.8	Defb1	ENSMUSG00000044748	defensin beta 1 Source MGI Symbol Acc MGI 1096878
B12	UPFM1000120	ENSMUST00000215025.1	Dennd4a	ENSMUSG00000053641	DENN/MADD domain containing 4A Source MGI Symbol Acc MGI 2142979
C01	UPFM0888052	ENSMUST00000145499.7	Dpysl4	ENSMUSG00000025478	dihydropyrimidinase-like 4 Source MGI Symbol Acc MGI 1349764
C02	UPFM1000398	ENSMUST00000126283.7	Eda2r	ENSMUSG00000034457	ectodysplasin A2 receptor Source MGI Symbol Acc MGI 2442860
C03	UPFM0644149	ENSMUST00000195664.1	Eif5b	ENSMUSG00000026083	eukaryotic translation initiation factor 5B Source MGI Symbol Acc MGI 2441772
C04	UPFM0753106	ENSMUST00000033394.7	Fadd	ENSMUSG00000031077	Fas (TNFRSF6)-associated via death domain Source MGI Symbol Acc MGI 109324
C05	UPFM0693860	ENSMUST00000155204.1	Faf1	ENSMUSG0000010517	Fas-associated factor 1 Source MGI Symbol Acc MGI 109419
C06	UPFM0995787	ENSMUST00000235709.1	Fas	ENSMUSG0000004778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C07	UPFM0749442	ENSMUST00000193648.1	Fasl	ENSMUSG00000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
C08	UPFM0931075	ENSMUST00000034775.9	Fem1b	ENSMUSG00000032244	feminization 1 homolog b (C. elegans) Source MGI Symbol Acc MGI 1335087
C09	UPFM0857543	ENSMUST00000060271.2	Foxi1	ENSMUSG00000047861	forkhead box I1 Source MGI Symbol Acc MGI 1096329
C10	UPFM0866470	ENSMUST00000128851.7	Fus	ENSMUSG00000030795	fused in sarcoma Source MGI Symbol Acc MGI 1353633
	UPFM062509	ENSMUST00000		ENSMUSG00	polypeptide N-acetylgalactosaminyltransferase 5 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	2	144671.7	Galnt5	000026828	2179403
C12	UPFM081670 0	ENSMUST00000 022322.16	Glud1	ENSMUSG00 000021794	glutamate dehydrogenase 1 Source MGI Symbol Acc MGI 95753
D01	UPFM072447 1	ENSMUST00000 140685.2	Glul	ENSMUSG00 000026473	glutamate-ammonia ligase (glutamine synthetase) Source MGI Symbol Acc MGI 95739
D02	UPFM076228 3	ENSMUST00000 135065.1	Grb2	ENSMUSG00 000059923	growth factor receptor bound protein 2 Source MGI Symbol Acc MGI 95805
D03	UPFM084341 5	ENSMUST00000 231579.1	Hspbap1	ENSMUSG00 000022849	Hspb associated protein 1 Source MGI Symbol Acc MGI 1913917
D04	UPFM068147 2	ENSMUST00000 149525.7	Ikkg	ENSMUSG00 000004221	inhibitor of kappaB kinase gamma Source MGI Symbol Acc MGI 1338074
D05	UPFM074001 8	ENSMUST00000 169735.1	Jph3	ENSMUSG00 000025318	junctophilin 3 Source MGI Symbol Acc MGI 1891497
D06	UPFM101020 6	ENSMUST00000 101368.8	Kcnp1	ENSMUSG00 000053519	Kv channel-interacting protein 1 Source MGI Symbol Acc MGI 1917607
D07	UPFM072235 3	ENSMUST00000 026580.11	Pidd1	ENSMUSG00 000025507	p53 induced death domain protein 1 Source MGI Symbol Acc MGI 1889507
D08	UPFM093347 5	ENSMUST00000 111381.8	Madd	ENSMUSG00 000040687	MAP-kinase activating death domain Source MGI Symbol Acc MGI 2444672
D09	UPFM084129 7	ENSMUST00000 040548.13	Mag	ENSMUSG00 000036634	myelin-associated glycoprotein Source MGI Symbol Acc MGI 96912
D10	UPFM062480 5	ENSMUST00000 026243.4	Mgea5	ENSMUSG00 000025220	meningioma expressed antigen 5 (hyaluronidase) Source MGI Symbol Acc MGI 1932139
D11	UPFM117295 8	ENSMUST00000 035092.6	Myd88	ENSMUSG00 000032508	myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005
D12	UPFM098758 7	ENSMUST00000 029812.13	Nfkb1	ENSMUSG00 000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E01	UPFM075829 0	ENSMUST00000 106925.8	Ngf	ENSMUSG00 000027859	nerve growth factor Source MGI Symbol Acc MGI 97321
E02	UPFM092680 2	ENSMUST00000 000122.6	Ngfr	ENSMUSG00 000000120	nerve growth factor receptor (TNFR superfamily, member 16) Source MGI Symbol Acc MGI 97323
E03	UPFM089644 1	ENSMUST00000 113112.1	Bex3	ENSMUSG00 000046432	brain expressed X-linked 3 Source MGI Symbol Acc MGI 1338016
E04	UPFM099950 5	ENSMUST00000 159231.2	Nox1	ENSMUSG00 000031257	NADPH oxidase 1 Source MGI Symbol Acc MGI 2450016
E05	UPFM093930 8	ENSMUST00000 124269.7	Nox4	ENSMUSG00 000030562	NADPH oxidase 4 Source MGI Symbol Acc MGI 1354184
E06	UPFM083898 0	ENSMUST00000 056592.2	Olfir1404	ENSMUSG00 000049456	olfactory receptor 1404 Source MGI Symbol Acc MGI 3031238
E07	UPFM093642 0	ENSMUST00000 193238.1	Parp1	ENSMUSG00 000026496	poly (ADP-ribose) polymerase family, member 1 Source MGI Symbol Acc MGI 1340806
E08	UPFM087358 4	ENSMUST00000 036126.6	Parp2	ENSMUSG00 000036023	poly (ADP-ribose) polymerase family, member 2 Source MGI Symbol Acc MGI 1341112
E09	UPFM100304 2	ENSMUST00000 135789.7	Ppia	ENSMUSG00 000071866	peptidylprolyl isomerase A Source MGI Symbol Acc MGI 97749
E10	UPFM072560 3	ENSMUST00000 159505.2	Ppid	ENSMUSG00 000027804	peptidylprolyl isomerase D (cyclophilin D) Source MGI Symbol Acc MGI 1914988
E11	UPFM093070 0	ENSMUST00000 159413.1	Pvr	ENSMUSG00 000040511	poliovirus receptor Source MGI Symbol Acc MGI 107741
E12	UPFM086691 8	ENSMUST00000 166609.1	Pygl	ENSMUSG00 000021069	liver glycogen phosphorylase Source MGI Symbol Acc MGI 97829
F01	UPFM085393 3	ENSMUST00000 131775.1	Rab25	ENSMUSG00 000008601	RAB25, member RAS oncogene family Source MGI Symbol Acc MGI 1858203
F02	UPFM086562 4	ENSMUST00000 167374.8	Ripk1	ENSMUSG00 000021408	receptor (TNFRSF)-interacting serine-threonine kinase 1 Source MGI Symbol Acc MGI 108212
F03	UPFM074500 8	ENSMUST00000 183871.1	Ripk2	ENSMUSG00 000041135	receptor (TNFRSF)-interacting serine-threonine kinase 2 Source MGI Symbol Acc MGI 1891456
F04	UPFM070524 5	ENSMUST00000 227072.1	Ripk3	ENSMUSG00 000022221	receptor-interacting serine-threonine kinase 3 Source MGI Symbol Acc MGI 2154952
F05	UPFM075690 1	ENSMUST00000 079286.3	S100a7a	ENSMUSG00 000063767	S100 calcium binding protein A7A Source MGI Symbol Acc MGI 2687194
F06	UPFM081497 7	ENSMUST00000 034049.4	Slc25a4	ENSMUSG00 000031633	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4 Source MGI Symbol Acc MGI 1353495
F07	UPFM074402 4	ENSMUST00000 147051.1	Spta2	ENSMUSG00 000047030	spermatogenesis associated 2 Source MGI Symbol Acc MGI 2146885
F08	UPFM100940 7	ENSMUST00000 081134.9	Sycp2	ENSMUSG00 000060445	synaptonemal complex protein 2 Source MGI Symbol Acc MGI 1933281
F09	UPFM078407 8	ENSMUST00000 052865.15	Tmem123	ENSMUSG00 000050912	transmembrane protein 123 Source MGI Symbol Acc MGI 1919179
F10	UPFM099888 5	ENSMUST00000 148595.1	Maco1	ENSMUSG00 000028826	macoilin 1 Source MGI Symbol Acc MGI 1913396

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
F12	UPFM064695 8	ENSMUST00000 022663.6	Tnfrsf10b	ENSMUSG00 000022074	tumor necrosis factor receptor superfamily, member 10b Source MGI Symbol Acc MGI 1341090
G01	UPFM099845 8	ENSMUST00000 152687.7	Tnfrsf14	ENSMUSG00 000042333	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) Source MGI Symbol Acc MGI 2675303
G02	UPFM078802 8	ENSMUST00000 023140.5	Tnfrsf17	ENSMUSG00 000022496	tumor necrosis factor receptor superfamily, member 17 Source MGI Symbol Acc MGI 1343050
G03	UPFM070484 6	ENSMUST00000 144524.1	Tnfrsf1a	ENSMUSG00 000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
G04	UPFM063198 6	ENSMUST00000 143055.1	Tnfrsf1b	ENSMUSG00 000028599	tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883
G05	UPFM088644 9	ENSMUST00000 025706.9	Tnfrsf25	ENSMUSG00 000024793	tumor necrosis factor receptor superfamily, member 25 Source MGI Symbol Acc MGI 1934667
G06	UPFM097732 6	ENSMUST00000 127377.1	Tnfrsf4	ENSMUSG00 000029075	tumor necrosis factor receptor superfamily, member 4 Source MGI Symbol Acc MGI 104512
G07	UPFM096867 3	ENSMUST00000 123027.1	Tnfrsf8	ENSMUSG00 000028602	tumor necrosis factor receptor superfamily, member 8 Source MGI Symbol Acc MGI 99908
G08	UPFM068209 9	ENSMUST00000 174840.1	Tnfrsf10	ENSMUSG00 000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G09	UPFM074106 8	ENSMUST00000 062246.6	Tnfrsf15	ENSMUSG00 000050395	tumor necrosis factor (ligand) superfamily, member 15 Source MGI Symbol Acc MGI 2180140
G10	UPFM088738 2	ENSMUST00000 144762.7	Tradd	ENSMUSG00 000031887	TNFRSF1A-associated via death domain Source MGI Symbol Acc MGI 109200
G11	UPFM092017 5	ENSMUST00000 028311.12	Traf2	ENSMUSG00 000026942	TNF receptor-associated factor 2 Source MGI Symbol Acc MGI 101835
G12	UPFM065536 3	ENSMUST00000 034159.7	Txn14b	ENSMUSG00 000031723	thioredoxin-like 4B Source MGI Symbol Acc MGI 2443724
H01	UPFM113294 6	ENSMUST00000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM112660 9	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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