

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

Mouse Apoptosis

Cat. no. 249955 UPMM-012ZR

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	Abi1	Aifm1	Akt1	Anxa5	Apaf1	Api5	Atf5	Bad	Bag1	Bag3	Bak1	Bax
B	Bcl10	Bcl2	Bcl2a1a	Bcl2l1	Bcl2l10	Bcl2l11	Bcl2l2	Bid	Birc2	Birc3	Birc5	Bnip2
C	Bnip3	Bnip3l	Bok	Card10	Casp1	Casp12	Casp14	Casp2	Casp3	Casp4	Casp6	Casp7
D	Casp8	Casp9	Cd40	Cd40lg	Cd70	Cflar	Cidea	Cideb	Crodd	Dad1	Dapk1	Dffa
E	Dffb	Diablo	Fadd	Fas	Fasf	Gadd45a	Igf1r	Il10	Lhx4	Ltr	Mapk1	Mcl1
F	Naip1	Naip2	Nfkb1	Nme5	Nod1	Nol3	Polb	Prdx2	Pycard	Ripk1	Tnf	Tnfrsf10b
G	Tnfrsf11b	Tnfrsf1a	Tnfrsf10	Tnfrsf12	Traf1	Traf2	Traf3	Trp53	Trp53bp2	Trp63	Trp73	Xiap
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	UPFM089352 2	ENSMUST00000028190.12	Abl1	ENSMUSG0000026842	c-abl oncogene 1, non-receptor tyrosine kinase Source MGI Symbol Acc MGI 87859
A02	UPFM096772 6	ENSMUST00000037349.7	Aifm1	ENSMUSG0000036932	apoptosis-inducing factor, mitochondrion-associated 1 Source MGI Symbol Acc MGI 1349419
A03	UPFM082786 0	ENSMUST00000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A04	UPFM099844 2	ENSMUST00000029266.13	Anxa5	ENSMUSG0000027712	annexin A5 Source MGI Symbol Acc MGI 106008
A05	UPFM087814 1	ENSMUST00000160788.1	Apaf1	ENSMUSG0000019979	apoptotic peptidase activating factor 1 Source MGI Symbol Acc MGI 1306796
A06	UPFM099640 4	ENSMUST00000152454.7	Api5	ENSMUSG0000027193	apoptosis inhibitor 5 Source MGI Symbol Acc MGI 1888993
A07	UPFM117294 3	ENSMUST00000047356.10	Atf5	ENSMUSG0000038539	activating transcription factor 5 Source MGI Symbol Acc MGI 2141857
A08	UPFM070030 3	ENSMUST00000025910.12	Bad	ENSMUSG0000024959	BCL2-associated agonist of cell death Source MGI Symbol Acc MGI 1096330
A09	UPFM068185 5	ENSMUST00000108089.7	Bag1	ENSMUSG0000028416	BCL2-associated athanogene 1 Source MGI Symbol Acc MGI 108047
A10	UPFM072585 2	ENSMUST00000033136.8	Bag3	ENSMUSG0000030847	BCL2-associated athanogene 3 Source MGI Symbol Acc MGI 1352493
A11	UPFM100989 2	ENSMUST00000078691.11	Bak1	ENSMUSG0000057789	BCL2-antagonist/killer 1 Source MGI Symbol Acc MGI 1097161
A12	UPFM090386 1	ENSMUST00000211195.1	Bax	ENSMUSG0000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
B01	UPFM117294 4	ENSMUST00000198122.1	Bcl10	ENSMUSG0000028191	B cell leukemia/lymphoma 10 Source MGI Symbol Acc MGI 1337994
B02	UPFM063585 3	ENSMUST00000112751.1	Bcl2	ENSMUSG00000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
B03	UPFM063995 3	ENSMUST00000098485.3	Bcl2a1a	ENSMUSG0000102037	B cell leukemia/lymphoma 2 related protein A1a Source MGI Symbol Acc MGI 102687
B04	UPFM066341 1	ENSMUST00000156688.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
B05	UPFM098543 9	ENSMUST00000034709.5	Bcl2l10	ENSMUSG0000032191	Bcl2-like 10 Source MGI Symbol Acc MGI 1330841
B06	UPFM088056 6	ENSMUST00000019281.13	Bcl2l11	ENSMUSG0000027381	BCL2-like 11 (apoptosis facilitator) Source MGI Symbol Acc MGI 1197519
B07	UPFM070717 1	ENSMUST00000133397.3	Bcl2l2	ENSMUSG0000089682	BCL2-like 2 Source MGI Symbol Acc MGI 108052
B08	UPFM069030 4	ENSMUST00000161594.1	Bid	ENSMUSG0000004446	BH3 interacting domain death agonist Source MGI Symbol Acc MGI 108093
B09	UPFM072353 2	ENSMUST00000074246.6	Birc2	ENSMUSG00000057367	baculoviral IAP repeat-containing 2 Source MGI Symbol Acc MGI 1197009
B10	UPFM070712 2	ENSMUST00000013949.14	Birc3	ENSMUSG0000032000	baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007
B11	UPFM085491 3	ENSMUST00000081387.10	Birc5	ENSMUSG0000017716	baculoviral IAP repeat-containing 5 Source MGI Symbol Acc MGI 1203517
B12	UPFM083789 7	ENSMUST00000034754.11	Bnip2	ENSMUSG0000011958	BCL2/adenovirus E1B interacting protein 2 Source MGI Symbol Acc MGI 109327
C01	UPFM076925 5	ENSMUST00000148970.1	Bnip3	ENSMUSG0000078566	BCL2/adenovirus E1B interacting protein 3 Source MGI Symbol Acc MGI 109326
C02	UPFM073946 0	ENSMUST00000151059.7	Bnip3l	ENSMUSG0000022051	BCL2/adenovirus E1B interacting protein 3-like Source MGI Symbol Acc MGI 1332659
C03	UPFM067159 2	ENSMUST00000027499.12	Bok	ENSMUSG0000026278	BCL2-related ovarian killer Source MGI Symbol Acc MGI 1858494
C04	UPFM075485 5	ENSMUST00000164826.7	Card10	ENSMUSG0000033170	caspase recruitment domain family, member 10 Source MGI Symbol Acc MGI 2146012
C05	UPFM095374 8	ENSMUST00000027015.5	Casp1	ENSMUSG0000025888	caspase 1 Source MGI Symbol Acc MGI 96544
C06	UPFM100727 5	ENSMUST00000138308.1	Casp12	ENSMUSG0000025887	caspase 12 Source MGI Symbol Acc MGI 1312922
C07	UPFM088408 6	ENSMUST00000005488.8	Casp14	ENSMUSG0000005355	caspase 14 Source MGI Symbol Acc MGI 1335092
C08	UPFM092598 0	ENSMUST00000139930.7	Casp2	ENSMUSG0000029863	caspase 2 Source MGI Symbol Acc MGI 97295
C09	UPFM072895 1	ENSMUST00000210534.1	Casp3	ENSMUSG0000031628	caspase 3 Source MGI Symbol Acc MGI 107739
C10	UPFM090558 9	ENSMUST00000160064.7	Casp4	ENSMUSG0000033538	caspase 4, apoptosis-related cysteine peptidase Source MGI Symbol Acc MGI 107700
	UPFM077021	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	5	029626.8	Casp6	000027997	caspase 6 Source MGI Symbol Acc MGI 1312921
C12	UPFM0630488	ENSMUST00000237055.1	Casp7	ENSMUSG0000025076	caspase 7 Source MGI Symbol Acc MGI 109383
D01	UPFM0670826	ENSMUST00000191201.6	Casp8	ENSMUSG0000026029	caspase 8 Source MGI Symbol Acc MGI 1261423
D02	UPFM0693309	ENSMUST00000097805.10	Casp9	ENSMUSG0000028914	caspase 9 Source MGI Symbol Acc MGI 1277950
D03	UPFM0722157	ENSMUST00000153105.1	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
D04	UPFM0918360	ENSMUST00000033466.1	Cd40lg	ENSMUSG00000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
D05	UPFM1006485	ENSMUST00000019633.7	Cd70	ENSMUSG0000019489	CD70 antigen Source MGI Symbol Acc MGI 1195273
D06	UPFM0824862	ENSMUST00000069333.7	Cflar	ENSMUSG0000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
D07	UPFM0696501	ENSMUST00000025404.9	Cidea	ENSMUSG0000024526	cell death-inducing DNA fragmentation factor, alpha subunit-like effector A Source MGI Symbol Acc MGI 1270845
D08	UPFM0757445	ENSMUST00000001497.8	Cideb	ENSMUSG0000022219	cell death-inducing DNA fragmentation factor, alpha subunit-like effector B Source MGI Symbol Acc MGI 1270844
D09	UPFM0731439	ENSMUST000000220279.1	Cradd	ENSMUSG0000045867	CASP2 and RIPK1 domain containing adaptor with death domain Source MGI Symbol Acc MGI 1336168
D10	UPFM0882335	ENSMUST00000022781.7	Dad1	ENSMUSG0000022174	defender against cell death 1 Source MGI Symbol Acc MGI 101912
D11	UPFM0884101	ENSMUST00000077453.12	Dapk1	ENSMUSG0000021559	death associated protein kinase 1 Source MGI Symbol Acc MGI 1916885
D12	UPFM0845298	ENSMUST00000030816.3	Dffa	ENSMUSG0000028974	DNA fragmentation factor, alpha subunit Source MGI Symbol Acc MGI 1196227
E01	UPFM0734800	ENSMUST000000133607.8	Dffb	ENSMUSG0000029027	DNA fragmentation factor, beta subunit Source MGI Symbol Acc MGI 1196287
E02	UPFM1005034	ENSMUST000000145152.7	Diablo	ENSMUSG0000029433	diablo, IAP-binding mitochondrial protein Source MGI Symbol Acc MGI 1913843
E03	UPFM0753106	ENSMUST00000033394.7	Fadd	ENSMUSG00000031077	Fas (TNFRSF6)-associated via death domain Source MGI Symbol Acc MGI 109324
E04	UPFM0995787	ENSMUST000000235709.1	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
E05	UPFM0749442	ENSMUST000000193648.1	Fasl	ENSMUSG0000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
E06	UPFM0910954	ENSMUST000000204282.1	Gadd45a	ENSMUSG00000036390	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc MGI 107799
E07	UPFM0653299	ENSMUST000000208871.1	Igf1r	ENSMUSG0000005533	insulin-like growth factor I receptor Source MGI Symbol Acc MGI 96433
E08	UPFM1172951	ENSMUST000000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
E09	UPFM0958693	ENSMUST000000195275.1	Lhx4	ENSMUSG0000026468	LIM homeobox protein 4 Source MGI Symbol Acc MGI 101776
E10	UPFM0886968	ENSMUST00000032489.7	Ltbr	ENSMUSG00000030339	lymphotoxin B receptor Source MGI Symbol Acc MGI 104875
E11	UPFM0666259	ENSMUST000000232611.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
E12	UPFM0712617	ENSMUST000000178686.1	Mcl1	ENSMUSG00000038612	myeloid cell leukemia sequence 1 Source MGI Symbol Acc MGI 101769
F01	UPFM0846116	ENSMUST000000022142.6	Naip1	ENSMUSG00000021640	NLR family, apoptosis inhibitory protein 1 Source MGI Symbol Acc MGI 1298223
F02	UPFM0680611	ENSMUST000000067975.11	Naip2	ENSMUSG00000078945	NLR family, apoptosis inhibitory protein 2 Source MGI Symbol Acc MGI 1298226
F03	UPFM0987587	ENSMUST000000029812.13	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
F04	UPFM0969636	ENSMUST000000155114.1	Nme5	ENSMUSG00000035984	NME/NM23 family member 5 Source MGI Symbol Acc MGI 1922783
F05	UPFM0917099	ENSMUST000000203076.1	Nod1	ENSMUSG00000038058	nucleotide-binding oligomerization domain containing 1 Source MGI Symbol Acc MGI 1341839
F06	UPFM0826374	ENSMUST000000014920.7	Nol3	ENSMUSG0000014776	nucleolar protein 3 (apoptosis repressor with CARD domain) Source MGI Symbol Acc MGI 1925938
F07	UPFM0805611	ENSMUST000000033938.6	Polb	ENSMUSG00000031536	polymerase (DNA directed), beta Source MGI Symbol Acc MGI 97740
F08	UPFM0959454	ENSMUST000000127215.1	Prdx2	ENSMUSG00000005161	peroxiredoxin 2 Source MGI Symbol Acc MGI 109486
F09	UPFM0842374	ENSMUST000000033056.4	Pycard	ENSMUSG00000030793	PYD and CARD domain containing Source MGI Symbol Acc MGI 1931465
F10	UPFM0865624	ENSMUST000000167374.8	Ripk1	ENSMUSG00000021408	receptor (TNFRSF)-interacting serine-threonine kinase 1 Source MGI Symbol Acc MGI 108212

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	UPFM072017 7	ENSMUST00000 079772.3	Tnfrsf11b	ENSMUSG00 000063727	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) Source MGI Symbol Acc MGI 109587
G02	UPFM070484 6	ENSMUST00000 144524.1	Tnfrsf1a	ENSMUSG00 000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
G03	UPFM068209 9	ENSMUST00000 174840.1	Tnfsf10	ENSMUSG00 000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G04	UPFM092715 4	ENSMUST00000 181810.7	Tnfsf12	ENSMUSG00 000097328	tumor necrosis factor (ligand) superfamily, member 12 Source MGI Symbol Acc MGI 1196259
G05	UPFM083029 0	ENSMUST00000 028234.11	Traf1	ENSMUSG00 000026875	TNF receptor-associated factor 1 Source MGI Symbol Acc MGI 101836
G06	UPFM092017 5	ENSMUST00000 028311.12	Traf2	ENSMUSG00 000026942	TNF receptor-associated factor 2 Source MGI Symbol Acc MGI 101835
G07	UPFM080793 8	ENSMUST00000 021706.10	Traf3	ENSMUSG00 000021277	TNF receptor-associated factor 3 Source MGI Symbol Acc MGI 108041
G08	UPFM066913 3	ENSMUST00000 171247.7	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G09	UPFM065980 6	ENSMUST00000 191804.1	Trp53bp2	ENSMUSG00 000026510	transformation related protein 53 binding protein 2 Source MGI Symbol Acc MGI 2138319
G10	UPFM062121 7	ENSMUST00000 115308.8	Trp63	ENSMUSG00 000022510	transformation related protein 63 Source MGI Symbol Acc MGI 1330810
G11	UPFM092417 3	ENSMUST00000 105643.7	Trp73	ENSMUSG00 000029026	transformation related protein 73 Source MGI Symbol Acc MGI 1336991
G12	UPFM083576 8	ENSMUST00000 145065.1	Xiap	ENSMUSG00 000025860	X-linked inhibitor of apoptosis Source MGI Symbol Acc MGI 107572
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 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 Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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