

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

Mouse p53 Signaling Pathway

Cat. no. 249955 UPMM-027ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Apaf1	Apex1	Atm	Atr	Bag1	Bax	Bbc3	Bcl2	Bid	Birc5	Bnip3	Brc1
B	Brca2	Blg2	Casp2	Casp9	Ccnb1	Ccne1	Ccng1	Ccnh	Cdc25a	Cdc25c	Cdk1	Cdk4
C	Cdkn1a	Cdkn2a	Chek1	Chek2	Cradd	Cul9	Dapk1	Dnm1	E2f1	E2f3	Egfr	Egr1
D	Ep300	Erc1	Esr1	Fadd	Fas	Fas1	Foxo3	Gadd45a	Hif1a	Il6	Jun	Kras
E	Lig4	Mcl1	Mdm2	Mdm4	Mlh1	Msh2	Myc	Myd1	Nf1	Nfkb1	Pcna	Pmaip1
F	Ppm1d	Prc1	Prkca	Pten	Ptfg1	Rb1	Rela	Rprm	Serpins5	Sesn2	Sfn	Sirt1
G	Stat1	Tnf	Tnfrsf10b	Traf1	Trp53	Trp53bp2	Trp63	Trp73	Wt1	Xrcc4	Xrcc5	Zmat3
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	UPFM087814 1	ENSMUST00000 160788.1	Apaf1	ENSMUSG00 000019979	apoptotic peptidase activating factor 1 Source MGI Symbol Acc MGI 1306796
A02	UPFM063954 5	ENSMUST00000 136753.7	Apex1	ENSMUSG00 000035960	apurinic/apyrimidinic endonuclease 1 Source MGI Symbol Acc MGI 88042
A03	UPFM070877 3	ENSMUST00000 150244.1	Atm	ENSMUSG00 000034218	ataxia telangiectasia mutated Source MGI Symbol Acc MGI 107202
A04	UPFM092040 0	ENSMUST00000 185473.6	Atr	ENSMUSG00 000032409	ataxia telangiectasia and Rad3 related Source MGI Symbol Acc MGI 108028
A05	UPFM068185 5	ENSMUST00000 108089.7	Bag1	ENSMUSG00 000028416	BCL2-associated athanogene 1 Source MGI Symbol Acc MGI 108047
A06	UPFM090386 1	ENSMUST00000 211195.1	Bax	ENSMUSG00 000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A07	UPFM094693 3	ENSMUST00000 002152.12	Bbc3	ENSMUSG00 000002083	BCL2 binding component 3 Source MGI Symbol Acc MGI 2181667
A08	UPFM063585 3	ENSMUST00000 112751.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A09	UPFM069030 4	ENSMUST00000 161594.1	Bid	ENSMUSG00 000004446	BH3 interacting domain death agonist Source MGI Symbol Acc MGI 108093
A10	UPFM085491 3	ENSMUST00000 081387.10	Birc5	ENSMUSG00 000017716	baculoviral IAP repeat-containing 5 Source MGI Symbol Acc MGI 1203517
A11	UPFM076925 5	ENSMUST00000 148970.1	Bnip3	ENSMUSG00 000078566	BCL2/adenovirus E1B interacting protein 3 Source MGI Symbol Acc MGI 109326
A12	UPFM098990 7	ENSMUST00000 156843.1	Brca1	ENSMUSG00 000017146	breast cancer 1, early onset Source MGI Symbol Acc MGI 104537
B01	UPFM077452 2	ENSMUST00000 201226.1	Brca2	ENSMUSG00 000041147	breast cancer 2, early onset Source MGI Symbol Acc MGI 109337
B02	UPFM082779 6	ENSMUST00000 020692.6	Blg2	ENSMUSG00 000020423	B cell translocation gene 2, anti-proliferative Source MGI Symbol Acc MGI 108384
B03	UPFM092598 0	ENSMUST00000 139930.7	Casp2	ENSMUSG00 000029863	caspase 2 Source MGI Symbol Acc MGI 97295
B04	UPFM096930 9	ENSMUST00000 097805.10	Casp9	ENSMUSG00 000028914	caspase 9 Source MGI Symbol Acc MGI 1277950
B05	UPFM091925 2	ENSMUST00000 147790.1	Ccnb1	ENSMUSG00 000041431	cyclin B1 Source MGI Symbol Acc MGI 88302
B06	UPFM097782 7	ENSMUST00000 130329.1	Ccne1	ENSMUSG00 000002068	cyclin E1 Source MGI Symbol Acc MGI 88316
B07	UPFM065653 4	ENSMUST00000 020576.7	Ccng1	ENSMUSG00 000020326	cyclin G1 Source MGI Symbol Acc MGI 102890
B08	UPFM093965 8	ENSMUST00000 022030.10	Ccnh	ENSMUSG00 000021548	cyclin H Source MGI Symbol Acc MGI 1913921
B09	UPFM065474 7	ENSMUST00000 094324.7	Cdc25a	ENSMUSG00 000032477	cell division cycle 25A Source MGI Symbol Acc MGI 103198
B10	UPFM096467 5	ENSMUST00000 237620.1	Cdc25c	ENSMUSG00 000044201	cell division cycle 25C Source MGI Symbol Acc MGI 88350
B11	UPFM081094 4	ENSMUST00000 152448.1	Cdk1	ENSMUSG00 000019942	cyclin-dependent kinase 1 Source MGI Symbol Acc MGI 88351
B12	UPFM094816 9	ENSMUST00000 140254.7	Cdk4	ENSMUSG00 000006728	cyclin-dependent kinase 4 Source MGI Symbol Acc MGI 88357
C01	UPFM086779 1	ENSMUST00000 122348.2	Cdkn1a	ENSMUSG00 000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
C02	UPFM070277 6	ENSMUST00000 107131.1	Cdkn2a	ENSMUSG00 000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
C03	UPFM098368 4	ENSMUST00000 174105.7	Chek1	ENSMUSG00 000032113	checkpoint kinase 1 Source MGI Symbol Acc MGI 1202065
C04	UPFM096690 4	ENSMUST00000 066160.2	Chek2	ENSMUSG00 000029521	checkpoint kinase 2 Source MGI Symbol Acc MGI 1355321
C05	UPFM073143 9	ENSMUST00000 220279.1	Cradd	ENSMUSG00 000045867	CASP2 and RIPK1 domain containing adaptor with death domain Source MGI Symbol Acc MGI 1336168
C06	UPFM086489 0	ENSMUST00000 182799.1	Cul9	ENSMUSG00 000040327	cullin 9 Source MGI Symbol Acc MGI 1925559
C07	UPFM088410 1	ENSMUST00000 077453.12	Dapk1	ENSMUSG00 000021559	death associated protein kinase 1 Source MGI Symbol Acc MGI 1916885
C08	UPFM079807 4	ENSMUST00000 178110.2	Dnmt1	ENSMUSG00 000004099	DNA methyltransferase (cytosine-5) 1 Source MGI Symbol Acc MGI 94912
C09	UPFM066128 0	ENSMUST00000 000894.5	E2f1	ENSMUSG00 000027490	E2F transcription factor 1 Source MGI Symbol Acc MGI 101941
C10	UPFM062273 9	ENSMUST00000 222730.1	E2f3	ENSMUSG00 000016477	E2F transcription factor 3 Source MGI Symbol Acc MGI 1096340
	UPFM080878	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	125984.1	Egfr	000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C12	UPFM085434 3	ENSMUST00000 165033.1	Egr1	ENSMUSG00 000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
D01	UPFM063958 2	ENSMUST00000 185967.2	Ep300	ENSMUSG00 000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
D02	UPFM083835 0	ENSMUST00000 160909.1	Ercc1	ENSMUSG00 000003549	excision repair cross-complementing rodent repair deficiency, complementation group 1 Source MGI Symbol Acc MGI 95412
D03	UPFM083226 3	ENSMUST00000 105590.7	Esr1	ENSMUSG00 000019768	estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467
D04	UPFM075310 6	ENSMUST00000 033394.7	Fadd	ENSMUSG00 000031077	Fas (TNFRSF6)-associated via death domain Source MGI Symbol Acc MGI 109324
D05	UPFM099578 7	ENSMUST00000 235709.1	Fas	ENSMUSG00 000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
D06	UPFM074944 2	ENSMUST00000 193648.1	FasL	ENSMUSG00 000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
D07	UPFM088301 1	ENSMUST00000 056974.3	Foxo3	ENSMUSG00 000048756	forkhead box O3 Source MGI Symbol Acc MGI 1890081
D08	UPFM091095 4	ENSMUST00000 204282.1	Gadd45a	ENSMUSG00 000036390	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc MGI 107799
D09	UPFM090240 6	ENSMUST00000 110461.7	Hif1a	ENSMUSG00 000021109	hypoxia inducible factor 1, alpha subunit Source MGI Symbol Acc MGI 106918
D10	UPFM072909 9	ENSMUST00000 195978.4	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D11	UPFM097521 6	ENSMUST00000 107094.1	Jun	ENSMUSG00 000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D12	UPFM100079 9	ENSMUST00000 032399.11	Kras	ENSMUSG00 000030265	Kirsten rat sarcoma viral oncogene homolog Source MGI Symbol Acc MGI 96680
E01	UPFM089884 4	ENSMUST00000 095476.5	Lig4	ENSMUSG00 000049717	ligase IV, DNA, ATP-dependent Source MGI Symbol Acc MGI 1335098
E02	UPFM071261 7	ENSMUST00000 178686.1	Mcl1	ENSMUSG00 000038612	myeloid cell leukemia sequence 1 Source MGI Symbol Acc MGI 101769
E03	UPFM075219 5	ENSMUST00000 137102.7	Mdm2	ENSMUSG00 000020184	transformed mouse 3T3 cell double minute 2 Source MGI Symbol Acc MGI 96952
E04	UPFM082980 1	ENSMUST00000 067398.12	Mdm4	ENSMUSG00 000054387	transformed mouse 3T3 cell double minute 4 Source MGI Symbol Acc MGI 107934
E05	UPFM084504 4	ENSMUST00000 135695.1	Mlh1	ENSMUSG00 000032498	mutL homolog 1 Source MGI Symbol Acc MGI 101938
E06	UPFM098287 7	ENSMUST00000 173097.7	Msh2	ENSMUSG00 000024151	mutS homolog 2 Source MGI Symbol Acc MGI 101816
E07	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
E08	UPFM063561 8	ENSMUST00000 072514.2	Myod1	ENSMUSG00 000009471	myogenic differentiation 1 Source MGI Symbol Acc MGI 97275
E09	UPFM099655 1	ENSMUST00000 122917.7	Nf1	ENSMUSG00 000020716	neurofibromin 1 Source MGI Symbol Acc MGI 97306
E10	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
E11	UPFM069101 9	ENSMUST00000 140338.1	Pcna	ENSMUSG00 000027342	proliferating cell nuclear antigen Source MGI Symbol Acc MGI 97503
E12	UPFM070769 2	ENSMUST00000 025399.8	Pmaip1	ENSMUSG00 000024521	phorbol-12-myristate-13-acetate-induced protein 1 Source MGI Symbol Acc MGI 1930146
F01	UPFM093744 8	ENSMUST00000 020835.15	Ppm1d	ENSMUSG00 000020525	protein phosphatase 1D magnesium-dependent, delta isoform Source MGI Symbol Acc MGI 1858214
F02	UPFM092366 4	ENSMUST00000 173170.1	Prc1	ENSMUSG00 000038943	protein regulator of cytokinesis 1 Source MGI Symbol Acc MGI 1858961
F03	UPFM091650 2	ENSMUST00000 100302.3	Prkca	ENSMUSG00 000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
F04	UPFM089742 6	ENSMUST00000 013807.7	Pten	ENSMUSG00 000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
F05	UPFM092901 7	ENSMUST00000 020687.14	Pttg1	ENSMUSG00 000020415	pituitary tumor-transforming gene 1 Source MGI Symbol Acc MGI 1353578
F06	UPFM077278 8	ENSMUST00000 022701.6	Rb1	ENSMUSG00 000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F07	UPFM081915 5	ENSMUST00000 025867.5	Rela	ENSMUSG00 000024927	v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290
F08	UPFM090429 7	ENSMUST00000 100089.2	Rprm	ENSMUSG00 000075334	reprimin, TP53 dependent G2 arrest mediator candidate Source MGI Symbol Acc MGI 1915124
F09	UPFM094510 0	ENSMUST00000 112729.2	Serpib5	ENSMUSG00 000067006	serine (or cysteine) peptidase inhibitor, clade B, member 5 Source MGI Symbol Acc MGI 109579
F10	UPFM068441 0	ENSMUST00000 030724.8	Sesn2	ENSMUSG00 000028893	sestrin 2 Source MGI Symbol Acc MGI 2651874

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM094111 4	ENSMUST00000 057311.3	Sfn	ENSMUSG00 000047281	stratifin Source MGI Symbol Acc MGI 1891831
F12	UPFM091465 7	ENSMUST00000 177694.7	Sirt1	ENSMUSG00 000020063	sirtuin 1 Source MGI Symbol Acc MGI 2135607
G01	UPFM071531 5	ENSMUST00000 186574.6	Stat1	ENSMUSG00 000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G02	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G03	UPFM064695 8	ENSMUST00000 022663.6	Tnfrsf10b	ENSMUSG00 000022074	tumor necrosis factor receptor superfamily, member 10b Source MGI Symbol Acc MGI 1341090
G04	UPFM083029 0	ENSMUST00000 028234.11	Traf1	ENSMUSG00 000026875	TNF receptor-associated factor 1 Source MGI Symbol Acc MGI 101836
G05	UPFM066913 3	ENSMUST00000 171247.7	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G06	UPFM065980 6	ENSMUST00000 191804.1	Trp53bp2	ENSMUSG00 000026510	transformation related protein 53 binding protein 2 Source MGI Symbol Acc MGI 2138319
G07	UPFM062121 7	ENSMUST00000 115308.8	Trp63	ENSMUSG00 000022510	transformation related protein 63 Source MGI Symbol Acc MGI 1330810
G08	UPFM092417 3	ENSMUST00000 105643.7	Trp73	ENSMUSG00 000029026	transformation related protein 73 Source MGI Symbol Acc MGI 1336991
G09	UPFM100747 1	ENSMUST00000 111098.7	Wt1	ENSMUSG00 000016458	Wilms tumor 1 homolog Source MGI Symbol Acc MGI 98968
G10	UPFM094070 4	ENSMUST00000 159199.7	Xrcc4	ENSMUSG00 000021615	X-ray repair complementing defective repair in Chinese hamster cells 4 Source MGI Symbol Acc MGI 1333799
G11	UPFM083469 4	ENSMUST00000 027379.8	Xrcc5	ENSMUSG00 000026187	X-ray repair complementing defective repair in Chinese hamster cells 5 Source MGI Symbol Acc MGI 104517
G12	UPFM077599 7	ENSMUST00000 139660.1	Zmat3	ENSMUSG00 000027663	zinc finger matrin type 3 Source MGI Symbol Acc MGI 1195270
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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