

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

Mouse Cancer PathwayFinder™

Cat. no. 249955 UPMM-033ZA

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	Acly	Acl4	Adm	Angpt1	Angpt2	Apaf1	Arnt	Atp5a1	Atrx	Aurka	Bcl2l11	Birc3
B	Bmi1	Car9	Casp2	Casp7	Casp9	Ccl2	Ccnd2	Ccnd3	Cdc20	Cdh2	Cflar	Cox5a
C	Cpt2	Ddb2	Dkc1	Dsp	E2f4	Epo	Ercc3	Ercc5	Ets2	Fasf	Fgf2	Fhl1
D	Foxc2	G6pdx	Gadd45g	Gpd2	Gsc	Hmox1	Igfbp3	Igfbp5	Igfbp7	Ing1	Kdr	Krt14
E	Ldha	Lig4	Lpl	Map2k1	Map2k3	Mcm2	Mki67	Nol3	Ocln	Pfkf	Pgf	Pinx1
F	Ppp1r15a	Serpinb2	Serpinf1	Sirt1	Sirt2	Skp2	Slc2a1	Snai1	Snai2	Snai3	Sox10	Stmn1
G	Tbx2	Tek	Tep1	Terf2ip	Tinf2	Tnks	Tnks2	Uqcrf1	Vegfc	Wee1	Xiap	Xrcc4
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	UPFM097540 5	ENSMUST000000 007131.15	Acly	ENSMUSG00 000020917	ATP citrate lyase Source MGI Symbol Acc MGI 103251
A02	UPFM092898 6	ENSMUST000000 112904.7	Acsl4	ENSMUSG00 000031278	acyl-CoA synthetase long-chain family member 4 Source MGI Symbol Acc MGI 1354713
A03	UPFM099995 4	ENSMUST000000 033054.9	Adm	ENSMUSG00 000030790	adrenomedullin Source MGI Symbol Acc MGI 108058
A04	UPFM071478 8	ENSMUST000000 022921.6	Angpt1	ENSMUSG00 000022309	angiopoietin 1 Source MGI Symbol Acc MGI 108448
A05	UPFM074499 5	ENSMUST000000 170200.1	Angpt2	ENSMUSG00 000031465	angiopoietin 2 Source MGI Symbol Acc MGI 1202890
A06	UPFM087814 1	ENSMUST000000 160788.1	Apaf1	ENSMUSG00 000019979	apoptotic peptidase activating factor 1 Source MGI Symbol Acc MGI 1306796
A07	UPFM084244 6	ENSMUST000000 156653.7	Arnt	ENSMUSG00 000015522	aryl hydrocarbon receptor nuclear translocator Source MGI Symbol Acc MGI 88071
A08	UPFM089299 1	ENSMUST000000 026495.14	Atp5a1	ENSMUSG00 000025428	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1 Source MGI Symbol Acc MGI 88115
A09	UPFM068083 3	ENSMUST000000 134381.7	Atrx	ENSMUSG00 000031229	ATRX, chromatin remodeler Source MGI Symbol Acc MGI 103067
A10	UPFM069900 5	ENSMUST000000 109140.9	Aurka	ENSMUSG00 000027496	aurora kinase A Source MGI Symbol Acc MGI 894678
A11	UPFM088056 6	ENSMUST000000 019281.13	Bcl2l1	ENSMUSG00 000027381	BCL2-like 11 (apoptosis facilitator) Source MGI Symbol Acc MGI 1197519
A12	UPFM070712 2	ENSMUST000000 013949.14	Birc3	ENSMUSG00 000032000	baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007
B01	UPFM079385 6	ENSMUST000000 051929.12	Bmi1	ENSMUSG00 000026739	Bmi1 polycomb ring finger oncogene Source MGI Symbol Acc MGI 88174
B02	UPFM096123 4	ENSMUST000000 129996.1	Car9	ENSMUSG00 000028463	carbonic anhydrase 9 Source MGI Symbol Acc MGI 2447188
B03	UPFM092598 0	ENSMUST000000 139930.7	Casp2	ENSMUSG00 000029863	caspase 2 Source MGI Symbol Acc MGI 97295
B04	UPFM063048 8	ENSMUST000000 237055.1	Casp7	ENSMUSG00 000025076	caspase 7 Source MGI Symbol Acc MGI 109383
B05	UPFM069330 9	ENSMUST000000 097805.10	Casp9	ENSMUSG00 000028914	caspase 9 Source MGI Symbol Acc MGI 1277950
B06	UPFM094573 3	ENSMUST000000 124479.1	Ccl2	ENSMUSG00 000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
B07	UPFM086144 2	ENSMUST000000 201066.1	Ccnd2	ENSMUSG00 000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
B08	UPFM069203 1	ENSMUST000000 182848.7	Ccnd3	ENSMUSG00 000034165	cyclin D3 Source MGI Symbol Acc MGI 88315
B09	UPFM100480 9	ENSMUST000000 151302.1	Cdc20	ENSMUSG00 000006398	cell division cycle 20 Source MGI Symbol Acc MGI 1859866
B10	UPFM069274 2	ENSMUST000000 025166.13	Cdh2	ENSMUSG00 000024304	cadherin 2 Source MGI Symbol Acc MGI 88355
B11	UPFM082486 2	ENSMUST000000 069333.7	Cflar	ENSMUSG00 000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
B12	UPFM062917 3	ENSMUST000000 000090.7	Cox5a	ENSMUSG00 000000088	cytochrome c oxidase subunit 5A Source MGI Symbol Acc MGI 88474
C01	UPFM091584 0	ENSMUST000000 106720.8	Cpt2	ENSMUSG00 000028607	carnitine palmitoyltransferase 2 Source MGI Symbol Acc MGI 109176
C02	UPFM080136 5	ENSMUST000000 152277.7	Ddb2	ENSMUSG00 000002109	damage specific DNA binding protein 2 Source MGI Symbol Acc MGI 1355314
C03	UPFM080698 7	ENSMUST000000 145222.1	Dkc1	ENSMUSG00 000031403	dyskeratosis congenita 1, dyskerin Source MGI Symbol Acc MGI 1861727
C04	UPFM092854 2	ENSMUST000000 124830.2	Dsp	ENSMUSG00 000054889	desmoplakin Source MGI Symbol Acc MGI 109611
C05	UPFM064941 5	ENSMUST000000 015003.9	E2f4	ENSMUSG00 000014859	E2F transcription factor 4 Source MGI Symbol Acc MGI 103012
C06	UPFM089128 5	ENSMUST000000 111039.2	Epo	ENSMUSG00 000029711	erythropoietin Source MGI Symbol Acc MGI 95407
C07	UPFM089297 0	ENSMUST000000 129023.1	Ercc3	ENSMUSG00 000024382	excision repair cross-complementing rodent repair deficiency, complementation group 3 Source MGI Symbol Acc MGI 95414
C08	UPFM099803 1	ENSMUST000000 139510.7	Ercc5	ENSMUSG00 000026048	excision repair cross-complementing rodent repair deficiency, complementation group 5 Source MGI Symbol Acc MGI 103582
C09	UPFM097328 1	ENSMUST000000 023612.16	Ets2	ENSMUSG00 000022895	E26 avian leukemia oncogene 2, 3 domain Source MGI Symbol Acc MGI 95456
C10	UPFM074944 2	ENSMUST000000 193648.1	Fasf	ENSMUSG00 000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
	UPFM073062	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	9	145228.1	Fgf2	000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C12	UPFM0713630	ENSMUST00000110529.5	Flt1	ENSMUSG0000029648	FMS-like tyrosine kinase 1 Source MGI Symbol Acc MGI 95558
D01	UPFM0709635	ENSMUST00000054691.7	Foxc2	ENSMUSG0000046714	forkhead box C2 Source MGI Symbol Acc MGI 1347481
D02	UPFM0844932	ENSMUST00000143521.1	G6pdx	ENSMUSG00000031400	glucose-6-phosphate dehydrogenase X-linked Source MGI Symbol Acc MGI 105979
D03	UPFM0662562	ENSMUST00000021903.2	Gadd45g	ENSMUSG00000021453	growth arrest and DNA-damage-inducible 45 gamma Source MGI Symbol Acc MGI 1346325
D04	UPFM0997998	ENSMUST00000112618.8	Gpd2	ENSMUSG00000026827	glycerol phosphate dehydrogenase 2, mitochondrial Source MGI Symbol Acc MGI 99778
D05	UPFM0934802	ENSMUST00000021513.5	Gsc	ENSMUSG00000021095	goosecoid homeobox Source MGI Symbol Acc MGI 95841
D06	UPFM0708987	ENSMUST00000005548.7	Hmox1	ENSMUSG0000005413	heme oxygenase 1 Source MGI Symbol Acc MGI 96163
D07	UPFM0968986	ENSMUST00000020702.10	Igfbp3	ENSMUSG00000020427	insulin-like growth factor binding protein 3 Source MGI Symbol Acc MGI 96438
D08	UPFM0695041	ENSMUST00000137339.1	Igfbp5	ENSMUSG00000026185	insulin-like growth factor binding protein 5 Source MGI Symbol Acc MGI 96440
D09	UPFM0668060	ENSMUST00000163898.5	Igfbp7	ENSMUSG00000036256	insulin-like growth factor binding protein 7 Source MGI Symbol Acc MGI 1352480
D10	UPFM0764813	ENSMUST00000209446.1	Ing1	ENSMUSG00000045969	inhibitor of growth family, member 1 Source MGI Symbol Acc MGI 1349481
D11	UPFM0781643	ENSMUST00000113516.1	Kdr	ENSMUSG00000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
D12	UPFM0732705	ENSMUST00000007272.7	Krt14	ENSMUSG00000045545	keratin 14 Source MGI Symbol Acc MGI 96688
E01	UPFM0855357	ENSMUST00000125862.7	Ldha	ENSMUSG00000063229	lactate dehydrogenase A Source MGI Symbol Acc MGI 96759
E02	UPFM0898844	ENSMUST00000095476.5	Lig4	ENSMUSG00000049717	ligase IV, DNA, ATP-dependent Source MGI Symbol Acc MGI 1335098
E03	UPFM0826787	ENSMUST00000169749.1	Lpl	ENSMUSG0000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E04	UPFM0665925	ENSMUST00000005066.8	Map2k1	ENSMUSG00000004936	mitogen-activated protein kinase kinase 1 Source MGI Symbol Acc MGI 1346866
E05	UPFM0795874	ENSMUST00000126043.1	Map2k3	ENSMUSG0000018932	mitogen-activated protein kinase kinase 3 Source MGI Symbol Acc MGI 1346868
E06	UPFM0834531	ENSMUST00000205165.1	Mcm2	ENSMUSG00000002870	minichromosome maintenance complex component 2 Source MGI Symbol Acc MGI 105380
E07	UPFM0681630	ENSMUST00000211238.1	Mki67	ENSMUSG00000031004	antigen identified by monoclonal antibody Ki 67 Source MGI Symbol Acc MGI 106035
E08	UPFM0826374	ENSMUST00000014920.7	Nol3	ENSMUSG00000014776	nucleolar protein 3 (apoptosis repressor with CARD domain) Source MGI Symbol Acc MGI 1925938
E09	UPFM0874861	ENSMUST00000069756.10	Ocln	ENSMUSG00000021638	occludin Source MGI Symbol Acc MGI 106183
E10	UPFM0837654	ENSMUST00000148818.1	Pfkf	ENSMUSG00000020277	phosphofructokinase, liver, B-type Source MGI Symbol Acc MGI 97547
E11	UPFM0804578	ENSMUST00000222850.1	Pgf	ENSMUSG00000004791	placental growth factor Source MGI Symbol Acc MGI 105095
E12	UPFM0878357	ENSMUST00000022528.5	Pinx1	ENSMUSG00000021958	PIN2/TERF1 interacting, telomerase inhibitor 1 Source MGI Symbol Acc MGI 1919650
F01	UPFM0780211	ENSMUST00000042105.10	Ppp1r15a	ENSMUSG00000040435	protein phosphatase 1, regulatory subunit 15A Source MGI Symbol Acc MGI 1927072
F02	UPFM0833774	ENSMUST00000009356.10	Serpinb2	ENSMUSG00000062345	serine (or cysteine) peptidase inhibitor, clade B, member 2 Source MGI Symbol Acc MGI 97609
F03	UPFM0721156	ENSMUST00000168902.7	Serpinf1	ENSMUSG00000000753	serine (or cysteine) peptidase inhibitor, clade F, member 1 Source MGI Symbol Acc MGI 108080
F04	UPFM0914657	ENSMUST00000177694.7	Sirt1	ENSMUSG00000020063	sirtuin 1 Source MGI Symbol Acc MGI 2135607
F05	UPFM0860605	ENSMUST00000170068.8	Sirt2	ENSMUSG0000015149	sirtuin 2 Source MGI Symbol Acc MGI 1927664
F06	UPFM0900976	ENSMUST00000190131.1	Skp2	ENSMUSG00000054115	S-phase kinase-associated protein 2 (p45) Source MGI Symbol Acc MGI 1351663
F07	UPFM0999407	ENSMUST00000208090.1	Slc2a1	ENSMUSG00000028645	solute carrier family 2 (facilitated glucose transporter), member 1 Source MGI Symbol Acc MGI 95755
F08	UPFM0820869	ENSMUST00000052631.7	Snai1	ENSMUSG00000042821	snail family zinc finger 1 Source MGI Symbol Acc MGI 98330
F09	UPFM0726690	ENSMUST00000023356.7	Snai2	ENSMUSG00000022676	snail family zinc finger 2 Source MGI Symbol Acc MGI 1096393
F10	UPFM0821826	ENSMUST00000006762.6	Snai3	ENSMUSG00000006587	snail family zinc finger 3 Source MGI Symbol Acc MGI 1353563

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM062654 2	ENSMUST00000 230532.1	Sox10	ENSMUSG00 000033006	SRY (sex determining region Y)-box 10 Source MGI Symbol Acc MGI 98358
F12	UPFM093450 6	ENSMUST00000 105867.7	Stmn1	ENSMUSG00 000028832	stathmin 1 Source MGI Symbol Acc MGI 96739
G01	UPFM074595 5	ENSMUST00000 000095.6	Tbx2	ENSMUSG00 000000093	T-box 2 Source MGI Symbol Acc MGI 98494
G02	UPFM093936 7	ENSMUST00000 131958.1	Tek	ENSMUSG00 000006386	TEK receptor tyrosine kinase Source MGI Symbol Acc MGI 98664
G03	UPFM088466 8	ENSMUST00000 006444.8	Tep1	ENSMUSG00 000006281	telomerase associated protein 1 Source MGI Symbol Acc MGI 109573
G04	UPFM072891 8	ENSMUST00000 052138.10	Terf2ip	ENSMUSG00 000033430	telomeric repeat binding factor 2, interacting protein Source MGI Symbol Acc MGI 1929871
G05	UPFM086500 8	ENSMUST00000 227873.1	Tinf2	ENSMUSG00 000007589	Terf1 (TRF1)-interacting nuclear factor 2 Source MGI Symbol Acc MGI 107246
G06	UPFM074752 6	ENSMUST00000 209904.1	Tnks	ENSMUSG00 000031529	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase Source MGI Symbol Acc MGI 1341087
G07	UPFM063992 6	ENSMUST00000 168973.1	Tnks2	ENSMUSG00 000024811	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2 Source MGI Symbol Acc MGI 1921743
G08	UPFM091696 2	ENSMUST00000 042834.3	Uqcrrf1	ENSMUSG00 000038462	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 Source MGI Symbol Acc MGI 1913944
G09	UPFM067669 6	ENSMUST00000 210831.1	Vegfc	ENSMUSG00 000031520	vascular endothelial growth factor C Source MGI Symbol Acc MGI 109124
G10	UPFM069624 3	ENSMUST00000 033326.9	Wee1	ENSMUSG00 000031016	WEE 1 homolog 1 (S. pombe) Source MGI Symbol Acc MGI 103075
G11	UPFM083576 8	ENSMUST00000 145065.1	Xiap	ENSMUSG00 000025860	X-linked inhibitor of apoptosis Source MGI Symbol Acc MGI 107572
G12	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
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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