

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

Mouse Cell Cycle

Cat. no. 249955 UPMM-020ZR

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	Abl1	Atm	Atr	Aurka	Aurkb	Bcl2	Birc5	Braa1	Braa2	Casp3	Ccna1	Ccna2
B	Ccnb1	Ccnb2	Ccnc	Ccnd1	Ccnd2	Ccnd3	Ccne1	Ccnf	Cdc20	Cdc25a	Cdc25c	Cdc6
C	Cdc7	Cdk1	Cdk2	Cdk4	Cdk5rap1	Cdk6	Cdkn1a	Cdkn1b	Cdkn2a	Cdkn2b	Cdkn3	Chek1
D	Chek2	Cks1b	Ddit3	Dst	E2f1	E2f2	E2f3	E2f4	Gadd45a	Gpr132	Hus1	Ilgb1
E	Mad2l1	Mcm2	Mcm3	Mcm4	Mdm2	Mki67	Mre11a	Msh2	Myb	Nbn	Nek2	Notch2
F	Plk1	Pmp22	Ppm1d	Rad17	Rad21	Rad51	Rad9a	Ran	Rb1	Rbl1	Rbl2	Sfn
G	Shc1	Skp2	Sln1	Smc1a	Stag1	Stmn1	Tert1	Tfdp1	Trp53	Trp63	Tsg101	Wee1
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	ENSMUST00000 028190.12	Abl1	ENSMUSG00 000026842	c-abl oncogene 1, non-receptor tyrosine kinase Source MGI Symbol Acc MGI 87859
A02	UPFM070877 3	ENSMUST00000 150244.1	Atm	ENSMUSG00 000034218	ataxia telangiectasia mutated Source MGI Symbol Acc MGI 107202
A03	UPFM092040 0	ENSMUST00000 185473.6	Atr	ENSMUSG00 000032409	ataxia telangiectasia and Rad3 related Source MGI Symbol Acc MGI 108028
A04	UPFM069900 5	ENSMUST00000 109140.9	Aurka	ENSMUSG00 000027496	aurora kinase A Source MGI Symbol Acc MGI 894678
A05	UPFM068372 4	ENSMUST00000 149018.1	Aurkb	ENSMUSG00 000020897	aurora kinase B Source MGI Symbol Acc MGI 107168
A06	UPFM063585 3	ENSMUST00000 112751.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A07	UPFM085491 3	ENSMUST00000 081387.10	Birc5	ENSMUSG00 000017716	baculoviral IAP repeat-containing 5 Source MGI Symbol Acc MGI 1203517
A08	UPFM098990 7	ENSMUST00000 156843.1	Brca1	ENSMUSG00 000017146	breast cancer 1, early onset Source MGI Symbol Acc MGI 104537
A09	UPFM077452 2	ENSMUST00000 201226.1	Brca2	ENSMUSG00 000041147	breast cancer 2, early onset Source MGI Symbol Acc MGI 109337
A10	UPFM072895 1	ENSMUST00000 210534.1	Casp3	ENSMUSG00 000031628	caspase 3 Source MGI Symbol Acc MGI 107739
A11	UPFM079498 3	ENSMUST00000 029368.6	Ccna1	ENSMUSG00 000027793	cyclin A1 Source MGI Symbol Acc MGI 108042
A12	UPFM088857 5	ENSMUST00000 029270.9	Ccna2	ENSMUSG00 000027715	cyclin A2 Source MGI Symbol Acc MGI 108069
B01	UPFM091925 2	ENSMUST00000 147790.1	Ccnb1	ENSMUSG00 000041431	cyclin B1 Source MGI Symbol Acc MGI 88302
B02	UPFM100749 5	ENSMUST00000 034742.7	Ccnb2	ENSMUSG00 000032218	cyclin B2 Source MGI Symbol Acc MGI 88311
B03	UPFM070981 4	ENSMUST00000 123294.7	Ccnc	ENSMUSG00 000028252	cyclin C Source MGI Symbol Acc MGI 1858199
B04	UPFM093346 3	ENSMUST00000 208193.1	Ccnd1	ENSMUSG00 000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B05	UPFM086144 2	ENSMUST00000 201066.1	Ccnd2	ENSMUSG00 000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
B06	UPFM069203 1	ENSMUST00000 182848.7	Ccnd3	ENSMUSG00 000034165	cyclin D3 Source MGI Symbol Acc MGI 88315
B07	UPFM097782 7	ENSMUST00000 130329.1	Ccne1	ENSMUSG00 000002068	cyclin E1 Source MGI Symbol Acc MGI 88316
B08	UPFM075771 7	ENSMUST00000 234708.1	Ccnf	ENSMUSG00 000072082	cyclin F Source MGI Symbol Acc MGI 102551
B09	UPFM100480 9	ENSMUST00000 151302.1	Cdc20	ENSMUSG00 000006398	cell division cycle 20 Source MGI Symbol Acc MGI 1859866
B10	UPFM065474 7	ENSMUST00000 094324.7	Cdc25a	ENSMUSG00 000032477	cell division cycle 25A Source MGI Symbol Acc MGI 103198
B11	UPFM096467 5	ENSMUST00000 237620.1	Cdc25c	ENSMUSG00 000044201	cell division cycle 25C Source MGI Symbol Acc MGI 88350
B12	UPFM101037 5	ENSMUST00000 135862.1	Cdc6	ENSMUSG00 000017499	cell division cycle 6 Source MGI Symbol Acc MGI 1345150
C01	UPFM077691 1	ENSMUST00000 118261.7	Cdc7	ENSMUSG00 000029283	cell division cycle 7 (<i>S. cerevisiae</i>) Source MGI Symbol Acc MGI 1309511
C02	UPFM081094 4	ENSMUST00000 152448.1	Cdk1	ENSMUSG00 000019942	cyclin-dependent kinase 1 Source MGI Symbol Acc MGI 88351
C03	UPFM089823 9	ENSMUST00000 219601.1	Cdk2	ENSMUSG00 000025358	cyclin-dependent kinase 2 Source MGI Symbol Acc MGI 104772
C04	UPFM094816 9	ENSMUST00000 140254.7	Cdk4	ENSMUSG00 000006728	cyclin-dependent kinase 4 Source MGI Symbol Acc MGI 88357
C05	UPFM094414 6	ENSMUST00000 150308.1	Cdk5rap1	ENSMUSG00 000027487	CDK5 regulatory subunit associated protein 1 Source MGI Symbol Acc MGI 1914221
C06	UPFM062634 4	ENSMUST00000 042410.4	Cdk6	ENSMUSG00 000040274	cyclin-dependent kinase 6 Source MGI Symbol Acc MGI 1277162
C07	UPFM086779 1	ENSMUST00000 122348.2	Cdkn1a	ENSMUSG00 000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
C08	UPFM072528 3	ENSMUST00000 204807.1	Cdkn1b	ENSMUSG00 000003031	cyclin-dependent kinase inhibitor 1B Source MGI Symbol Acc MGI 104565
C09	UPFM070277 6	ENSMUST00000 107131.1	Cdkn2a	ENSMUSG00 000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
C10	UPFM092812 3	ENSMUST00000 097981.5	Cdkn2b	ENSMUSG00 000073802	cyclin dependent kinase inhibitor 2B Source MGI Symbol Acc MGI 104737
	UPFM086197	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	8	226621.1	Cdkn3	000037628	cyclin-dependent kinase inhibitor 3 Source MGI Symbol Acc MGI 1919641
C12	UPFM098368 4	ENSMUST00000 174105.7	Chek1	ENSMUSG00 000032113	checkpoint kinase 1 Source MGI Symbol Acc MGI 1202065
D01	UPFM096690 4	ENSMUST00000 066160.2	Chek2	ENSMUSG00 000029521	checkpoint kinase 2 Source MGI Symbol Acc MGI 1355321
D02	UPFM074758 8	ENSMUST00000 107422.1	Cks1b	ENSMUSG00 000028044	CDC28 protein kinase 1b Source MGI Symbol Acc MGI 1889208
D03	UPFM076656 9	ENSMUST00000 026475.14	Ddit3	ENSMUSG00 000025408	DNA-damage inducible transcript 3 Source MGI Symbol Acc MGI 109247
D04	UPFM080088 7	ENSMUST00000 183034.4	Dst	ENSMUSG00 000026131	dystonin Source MGI Symbol Acc MGI 104627
D05	UPFM066128 0	ENSMUST00000 000894.5	E2f1	ENSMUSG00 000027490	E2F transcription factor 1 Source MGI Symbol Acc MGI 101941
D06	UPFM112618 2	ENSMUST00000 061721.5	E2f2	ENSMUSG00 000018983	E2F transcription factor 2 Source MGI Symbol Acc MGI 1096341
D07	UPFM062273 9	ENSMUST00000 222730.1	E2f3	ENSMUSG00 000016477	E2F transcription factor 3 Source MGI Symbol Acc MGI 1096340
D08	UPFM064941 5	ENSMUST00000 015003.9	E2f4	ENSMUSG00 000014859	E2F transcription factor 4 Source MGI Symbol Acc MGI 103012
D09	UPFM091095 4	ENSMUST00000 204282.1	Gadd45a	ENSMUSG00 000036390	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc MGI 107799
D10	UPFM094217 5	ENSMUST00000 021729.8	Gpr132	ENSMUSG00 000021298	G protein-coupled receptor 132 Source MGI Symbol Acc MGI 1890220
D11	UPFM068804 0	ENSMUST00000 127578.1	Hus1	ENSMUSG00 000020413	HUS1 checkpoint clamp component Source MGI Symbol Acc MGI 1277962
D12	UPFM093465 6	ENSMUST00000 124826.1	Itgb1	ENSMUSG00 000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
E01	UPFM065245 9	ENSMUST00000 125430.1	Mad2l1	ENSMUSG00 000029910	MAD2 mitotic arrest deficient-like 1 Source MGI Symbol Acc MGI 1860374
E02	UPFM083453 1	ENSMUST00000 205165.1	Mcm2	ENSMUSG00 000002870	minichromosome maintenance complex component 2 Source MGI Symbol Acc MGI 105380
E03	UPFM090396 0	ENSMUST00000 191061.1	Mcm3	ENSMUSG00 000041859	minichromosome maintenance complex component 3 Source MGI Symbol Acc MGI 101845
E04	UPFM072242 8	ENSMUST00000 230437.1	Mcm4	ENSMUSG00 000022673	minichromosome maintenance complex component 4 Source MGI Symbol Acc MGI 103199
E05	UPFM075219 5	ENSMUST00000 137102.7	Mdm2	ENSMUSG00 000020184	transformed mouse 3T3 cell double minute 2 Source MGI Symbol Acc MGI 96952
E06	UPFM068163 0	ENSMUST00000 211238.1	Mki67	ENSMUSG00 000031004	antigen identified by monoclonal antibody Ki 67 Source MGI Symbol Acc MGI 106035
E07	UPFM112631 8	ENSMUST00000 215820.1	Mre11a	ENSMUSG00 000031928	MRE11A homolog A, double strand break repair nuclease Source MGI Symbol Acc MGI 1100512
E08	UPFM098287 7	ENSMUST00000 173097.7	Msh2	ENSMUSG00 000024151	mutS homolog 2 Source MGI Symbol Acc MGI 101816
E09	UPFM084399 5	ENSMUST00000 188495.7	Myb	ENSMUSG00 000019982	myeloblastosis oncogene Source MGI Symbol Acc MGI 97249
E10	UPFM098128 4	ENSMUST00000 149069.1	Nbn	ENSMUSG00 000028224	nibrin Source MGI Symbol Acc MGI 1351625
E11	UPFM068700 7	ENSMUST00000 027931.7	Nek2	ENSMUSG00 000026622	NIMA (never in mitosis gene a)-related expressed kinase 2 Source MGI Symbol Acc MGI 109359
E12	UPFM093566 5	ENSMUST00000 079812.7	Notch2	ENSMUSG00 000027878	notch 2 Source MGI Symbol Acc MGI 97364
F01	UPFM072324 6	ENSMUST00000 228581.1	Pkd1	ENSMUSG00 000032855	polycystin 1, transient receptor potential channel interacting Source MGI Symbol Acc MGI 97603
F02	UPFM064630 9	ENSMUST00000 018361.9	Pmp22	ENSMUSG00 000018217	peripheral myelin protein 22 Source MGI Symbol Acc MGI 97631
F03	UPFM093744 8	ENSMUST00000 020835.15	Ppm1d	ENSMUSG00 000020525	protein phosphatase 1D magnesium-dependent, delta isoform Source MGI Symbol Acc MGI 1858214
F04	UPFM084827 5	ENSMUST00000 226050.1	Rad17	ENSMUSG00 000021635	RAD17 checkpoint clamp loader component Source MGI Symbol Acc MGI 1333807
F05	UPFM089310 8	ENSMUST00000 022927.10	Rad21	ENSMUSG00 000022314	RAD21 cohesin complex component Source MGI Symbol Acc MGI 108016
F06	UPFM093244 8	ENSMUST00000 110828.1	Rad51	ENSMUSG00 000027323	RAD51 recombinase Source MGI Symbol Acc MGI 97890
F07	UPFM098627 6	ENSMUST00000 237467.1	Rad9a	ENSMUSG00 000024824	RAD9 checkpoint clamp component A Source MGI Symbol Acc MGI 1328356
F08	UPFM065701 8	ENSMUST00000 031383.13	Ran	ENSMUSG00 000029430	RAN, member RAS oncogene family Source MGI Symbol Acc MGI 1333112
F09	UPFM077278 8	ENSMUST00000 022701.6	Rb1	ENSMUSG00 000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F10	UPFM089194 0	ENSMUST00000 154721.7	Rbl1	ENSMUSG00 000027641	RB transcriptional corepressor like 1 Source MGI Symbol Acc MGI 103300

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM074059 9	ENSMUST00000 147361.7	Rbl2	ENSMUSG00 000031666	RB transcriptional corepressor like 2 Source MGI Symbol Acc MGI 105085
F12	UPFM094111 4	ENSMUST00000 057311.3	Sfn	ENSMUSG00 000047281	stratifin Source MGI Symbol Acc MGI 1891831
G01	UPFM096186 8	ENSMUST00000 154791.7	Shc1	ENSMUSG00 000042626	src homology 2 domain-containing transforming protein C1 Source MGI Symbol Acc MGI 98296
G02	UPFM090097 6	ENSMUST00000 190131.1	Skp2	ENSMUSG00 000054115	S-phase kinase-associated protein 2 (p45) Source MGI Symbol Acc MGI 1351663
G03	UPFM080348 2	ENSMUST00000 037994.7	Sfn1	ENSMUSG00 000078763	schlafen 1 Source MGI Symbol Acc MGI 1313259
G04	UPFM074085 5	ENSMUST00000 045312.5	Smc1a	ENSMUSG00 000041133	structural maintenance of chromosomes 1A Source MGI Symbol Acc MGI 1344345
G05	UPFM090919 7	ENSMUST00000 144005.7	Stag1	ENSMUSG00 000037286	stromal antigen 1 Source MGI Symbol Acc MGI 1098658
G06	UPFM093450 6	ENSMUST00000 105867.7	Stmn1	ENSMUSG00 000028832	stathmin 1 Source MGI Symbol Acc MGI 96739
G07	UPFM062948 9	ENSMUST00000 188371.6	Terf1	ENSMUSG00 000025925	telomeric repeat binding factor 1 Source MGI Symbol Acc MGI 109634
G08	UPFM070059 7	ENSMUST00000 209945.1	Tfdp1	ENSMUSG00 000038482	transcription factor Dp 1 Source MGI Symbol Acc MGI 101934
G09	UPFM066913 3	ENSMUST00000 171247.7	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G10	UPFM062121 7	ENSMUST00000 115308.8	Trp63	ENSMUSG00 000022510	transformation related protein 63 Source MGI Symbol Acc MGI 1330810
G11	UPFM094939 9	ENSMUST00000 209538.1	Tsg101	ENSMUSG00 000014402	tumor susceptibility gene 101 Source MGI Symbol Acc MGI 106581
G12	UPFM069624 3	ENSMUST00000 033326.9	Wee1	ENSMUSG00 000031016	WEE 1 homolog 1 (S. pombe) Source MGI Symbol Acc MGI 103075
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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