

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

## Mouse Prostate Cancer

Cat. no. 249955 UPMM-135ZA

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Abcb1a	Abcb1b	Acaca	Akt1	Apc	Ar	Arntl	Bcl2	Camkk1	Casp3	Cav2	Ccna1
B	Ccnd1	Ccnd2	Cdh1	Cdkn1a	Cdkn2a	Cln3	Creb1	Dab2ip	Daxx	Ddx11	Dkk3	Dlc1
C	Ecd2	Egfr	Egr3	Erg	Etv1	Fasn	Foxo1	Gadd45a	Gca	Gnrh1	Gpx3	Gstp1
D	Hal	Hmgcr	Igf1	Igf1bp5	Il6	Ints6	Klf13	Klkb1	Lgals4	Loxl1	Mapk1	Max
E	Mx1	Mto1	Ndr3	Nfkb1	Nkx3-1	Nrip1	Pdpc1	Pes1	Ppp2r1b	Prkab1	Plen	Plgs1
F	Rarb	Rassf1	Rb1	Rbm39	Rbp1	Scaf11	Sept7	Sfn	Sfrp1	Shbg	Slc5a8	Socs3
G	Sox4	Srebfl	Slk11	Supf7l	Tfpi2	Tgfb1i1	Timp2	Timp3	Tmprss2	Trp53	Usp5	Vegfa
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	UPFM078360 9	ENSMUST00000 047753.4	Abcb1a	ENSMUSG00 000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A02	UPFM082542 2	ENSMUST00000 009058.9	Abcb1b	ENSMUSG00 000028970	ATP-binding cassette, sub-family B (MDR/TAP), member 1B Source MGI Symbol Acc MGI 97568
A03	UPFM094854 9	ENSMUST00000 130012.8	Acaca	ENSMUSG00 000020532	acetyl-Coenzyme A carboxylase alpha Source MGI Symbol Acc MGI 108451
A04	UPFM082786 0	ENSMUST00000 139388.2	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A05	UPFM082281 4	ENSMUST00000 163295.1	Apc	ENSMUSG00 000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A06	UPFM078422 2	ENSMUST00000 052837.8	Ar	ENSMUSG00 000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A07	UPFM097061 5	ENSMUST00000 210074.1	Arntl	ENSMUSG00 000055116	aryl hydrocarbon receptor nuclear translocator-like Source MGI Symbol Acc MGI 1096381
A08	UPFM063585 3	ENSMUST00000 112751.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A09	UPFM089268 2	ENSMUST00000 145834.1	Camkk1	ENSMUSG00 000020785	calcium/calmodulin-dependent protein kinase kinase 1, alpha Source MGI Symbol Acc MGI 1891766
A10	UPFM072895 1	ENSMUST00000 210534.1	Casp3	ENSMUSG00 000031628	caspace 3 Source MGI Symbol Acc MGI 107739
A11	UPFM070600 8	ENSMUST00000 000058.6	Cav2	ENSMUSG00 000000058	caveolin 2 Source MGI Symbol Acc MGI 107571
A12	UPFM079498 3	ENSMUST00000 029368.6	Ccna1	ENSMUSG00 000027793	cyclin A1 Source MGI Symbol Acc MGI 108042
B01	UPFM093346 3	ENSMUST00000 208193.1	Ccnd1	ENSMUSG00 000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B02	UPFM086144 2	ENSMUST00000 201066.1	Ccnd2	ENSMUSG00 000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
B03	UPFM088317 7	ENSMUST00000 136580.1	Cdh1	ENSMUSG00 000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
B04	UPFM086779 1	ENSMUST00000 122348.2	Cdkn1a	ENSMUSG00 000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B05	UPFM070277 6	ENSMUST00000 107131.1	Cdkn2a	ENSMUSG00 000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
B06	UPFM074930 9	ENSMUST00000 150587.7	Cln3	ENSMUSG00 000030720	ceroid lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeier-Vogt disease) Source MGI Symbol Acc MGI 107537
B07	UPFM085293 8	ENSMUST00000 087366.10	Creb1	ENSMUSG00 000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B08	UPFM090834 4	ENSMUST00000 112986.8	Dab2ip	ENSMUSG00 000026883	disabled 2 interacting protein Source MGI Symbol Acc MGI 1916851
B09	UPFM072279 5	ENSMUST00000 173028.7	Daxx	ENSMUSG00 000002307	Fas death domain-associated protein Source MGI Symbol Acc MGI 1197015
B10	UPFM096652 0	ENSMUST00000 225956.1	Ddx11	ENSMUSG00 000035842	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 Source MGI Symbol Acc MGI 2443590
B11	UPFM085370 1	ENSMUST00000 033036.6	Dkk3	ENSMUSG00 000030772	dickkopf WNT signaling pathway inhibitor 3 Source MGI Symbol Acc MGI 1354952
B12	UPFM070919 6	ENSMUST00000 179652.1	Dlc1	ENSMUSG00 000031523	deleted in liver cancer 1 Source MGI Symbol Acc MGI 1354949
C01	UPFM084065 6	ENSMUST00000 108298.8	Ect2	ENSMUSG00 000027699	ect2 oncogene Source MGI Symbol Acc MGI 95281
C02	UPFM080878 1	ENSMUST00000 125984.1	Egfr	ENSMUSG00 000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C03	UPFM081883 4	ENSMUST00000 225200.1	Egr3	ENSMUSG00 000033730	early growth response 3 Source MGI Symbol Acc MGI 1306780
C04	UPFM094971 4	ENSMUST00000 233881.1	Erg	ENSMUSG00 000040732	ETS transcription factor Source MGI Symbol Acc MGI 95415
C05	UPFM077488 6	ENSMUST00000 161591.1	Etv1	ENSMUSG00 000004151	ets variant 1 Source MGI Symbol Acc MGI 99254
C06	UPFM081265 2	ENSMUST00000 055655.8	Fasn	ENSMUSG00 000025153	fatty acid synthase Source MGI Symbol Acc MGI 95485
C07	UPFM073382 1	ENSMUST00000 053764.6	Foxo1	ENSMUSG00 000044167	forkhead box O1 Source MGI Symbol Acc MGI 1890077
C08	UPFM091095 4	ENSMUST00000 204282.1	Gadd45a	ENSMUSG00 000036390	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc MGI 107799
C09	UPFM093331 9	ENSMUST00000 028257.2	Gca	ENSMUSG00 000026893	granulocystin Source MGI Symbol Acc MGI 1918521
C10	UPFM094033 9	ENSMUST00000 111095.3	Gnrh1	ENSMUSG00 000015812	gonadotropin releasing hormone 1 Source MGI Symbol Acc MGI 95789
	UPFM087429	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	4	149324.1	Gpx3	000018339	glutathione peroxidase 3 Source MGI Symbol Acc MGI 105102
C12	UPFM0783065	ENSMUST00000237893.1	Gstp1	ENSMUSG0000060803	glutathione S-transferase, pi 1 Source MGI Symbol Acc MGI 95865
D01	UPFM0940923	ENSMUST00000016031.13	Hal	ENSMUSG0000020017	histidine ammonia lyase Source MGI Symbol Acc MGI 96010
D02	UPFM0864479	ENSMUST00000168374.1	Hmgcr	ENSMUSG0000021670	3-hydroxy-3-methylglutaryl-Coenzyme A reductase Source MGI Symbol Acc MGI 96159
D03	UPFM0929418	ENSMUST00000121161.7	Igf1	ENSMUSG0000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D04	UPFM0695041	ENSMUST00000137339.1	Igfbp5	ENSMUSG0000026185	insulin-like growth factor binding protein 5 Source MGI Symbol Acc MGI 96440
D05	UPFM0729099	ENSMUST00000195978.4	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D06	UPFM0927410	ENSMUST00000225406.1	Ints6	ENSMUSG0000035161	integrator complex subunit 6 Source MGI Symbol Acc MGI 1202397
D07	UPFM0748426	ENSMUST00000144360.7	Klhl13	ENSMUSG0000036782	kelch-like 13 Source MGI Symbol Acc MGI 1914705
D08	UPFM0653331	ENSMUST00000026907.5	Klkb1	ENSMUSG0000109764	kallikrein B, plasma 1 Source MGI Symbol Acc MGI 102849
D09	UPFM0856080	ENSMUST00000126603.1	Lgals4	ENSMUSG0000053964	lectin, galactose binding, soluble 4 Source MGI Symbol Acc MGI 107536
D10	UPFM0927169	ENSMUST00000061799.9	Loxl1	ENSMUSG0000032334	lysyl oxidase-like 1 Source MGI Symbol Acc MGI 106096
D11	UPFM0666259	ENSMUST00000232611.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D12	UPFM0921340	ENSMUST00000110395.10	Max	ENSMUSG0000059436	Max protein Source MGI Symbol Acc MGI 96921
E01	UPFM0865658	ENSMUST00000063116.9	Msx1	ENSMUSG0000048450	msh homeobox 1 Source MGI Symbol Acc MGI 97168
E02	UPFM0947992	ENSMUST00000136478.1	Mto1	ENSMUSG0000032342	mitochondrial tRNA translation optimization 1 Source MGI Symbol Acc MGI 1915541
E03	UPFM0755842	ENSMUST00000156651.1	Ndr3	ENSMUSG0000027634	N-myc downstream regulated gene 3 Source MGI Symbol Acc MGI 1352499
E04	UPFM0987587	ENSMUST00000029812.13	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E05	UPFM0772992	ENSMUST00000022646.8	Nkx3-1	ENSMUSG0000022061	NK3 homeobox 1 Source MGI Symbol Acc MGI 97352
E06	UPFM0768424	ENSMUST00000128871.1	Nrip1	ENSMUSG0000048490	nuclear receptor interacting protein 1 Source MGI Symbol Acc MGI 1315213
E07	UPFM0868633	ENSMUST00000052462.12	Pdpk1	ENSMUSG0000024122	3-phosphoinositide dependent protein kinase 1 Source MGI Symbol Acc MGI 1338068
E08	UPFM0640759	ENSMUST00000109985.7	Pes1	ENSMUSG0000020430	pescadillo ribosomal biogenesis factor 1 Source MGI Symbol Acc MGI 1890613
E09	UPFM0761510	ENSMUST00000175640.7	Ppp2r1b	ENSMUSG0000032058	protein phosphatase 2, regulatory subunit A, beta Source MGI Symbol Acc MGI 1920949
E10	UPFM0869942	ENSMUST00000133098.8	Prkab1	ENSMUSG0000029513	protein kinase, AMP-activated, beta 1 non-catalytic subunit Source MGI Symbol Acc MGI 1336167
E11	UPFM0897426	ENSMUST00000013807.7	Pten	ENSMUSG0000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
E12	UPFM0621849	ENSMUST00000149930.2	Ptgs1	ENSMUSG0000047250	prostaglandin-endoperoxide synthase 1 Source MGI Symbol Acc MGI 97797
F01	UPFM0674015	ENSMUST00000063750.7	Rarb	ENSMUSG0000017491	retinoic acid receptor, beta Source MGI Symbol Acc MGI 97857
F02	UPFM0800947	ENSMUST00000093786.8	Rassf1	ENSMUSG0000010067	Ras association (RalGDS/AF-6) domain family member 1 Source MGI Symbol Acc MGI 1928386
F03	UPFM0772788	ENSMUST00000022701.6	Rb1	ENSMUSG0000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F04	UPFM0735144	ENSMUST00000148794.7	Rbm39	ENSMUSG0000027620	RNA binding motif protein 39 Source MGI Symbol Acc MGI 2157953
F05	UPFM0676569	ENSMUST00000052068.10	Rbp1	ENSMUSG0000046402	retinol binding protein 1, cellular Source MGI Symbol Acc MGI 97876
F06	UPFM0643090	ENSMUST00000228072.1	Scaf11	ENSMUSG0000033228	SR-related CTD-associated factor 11 Source MGI Symbol Acc MGI 1919443
F07	UPFM0882671	ENSMUST00000213980.1	Sept7	ENSMUSG0000001833	septin 7 Source MGI Symbol Acc MGI 1335094
F08	UPFM0941114	ENSMUST00000057311.3	Sfn	ENSMUSG0000047281	stratifin Source MGI Symbol Acc MGI 1891831
F09	UPFM0831159	ENSMUST00000033952.7	Sfrp1	ENSMUSG0000031548	secreted frizzled-related protein 1 Source MGI Symbol Acc MGI 892014
F10	UPFM0651924	ENSMUST00000137159.1	Shbg	ENSMUSG0000005202	sex hormone binding globulin Source MGI Symbol Acc MGI 98295

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM073617 3	ENSMUST00000 020255.7	Slc5a8	ENSMUSG00 000020062	solute carrier family 5 (iodide transporter), member 8 Source MGI Symbol Acc MGI 2384916
F12	UPFM069413 9	ENSMUST00000 054002.3	Socs3	ENSMUSG00 000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G01	UPFM073614 2	ENSMUST00000 067230.5	Sox4	ENSMUSG00 000076431	SRY (sex determining region Y)-box 4 Source MGI Symbol Acc MGI 98366
G02	UPFM063110 3	ENSMUST00000 149238.1	Srebf1	ENSMUSG00 000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G03	UPFM079767 6	ENSMUST00000 213772.1	Stk11	ENSMUSG00 000003068	serine/threonine kinase 11 Source MGI Symbol Acc MGI 1341870
G04	UPFM098642 6	ENSMUST00000 065388.10	Supt1l	ENSMUSG00 000053134	suppressor of Ty 7-like Source MGI Symbol Acc MGI 1919445
G05	UPFM077426 4	ENSMUST00000 203257.1	Tfpi2	ENSMUSG00 000029664	tissue factor pathway inhibitor 2 Source MGI Symbol Acc MGI 108543
G06	UPFM097202 8	ENSMUST00000 167965.7	Tgfb1l1	ENSMUSG00 000030782	transforming growth factor beta 1 induced transcript 1 Source MGI Symbol Acc MGI 102784
G07	UPFM073508 3	ENSMUST00000 017610.9	Timp2	ENSMUSG00 000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G08	UPFM066788 6	ENSMUST00000 020234.13	Timp3	ENSMUSG00 000020044	tissue inhibitor of metalloproteinase 3 Source MGI Symbol Acc MGI 98754
G09	UPFM076305 9	ENSMUST00000 000395.7	Tmprss2	ENSMUSG00 000000385	transmembrane protease, serine 2 Source MGI Symbol Acc MGI 1354381
G10	UPFM066913 3	ENSMUST00000 171247.7	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G11	UPFM065434 7	ENSMUST00000 122110.7	Usp5	ENSMUSG00 000038429	ubiquitin specific peptidase 5 (isopeptidase T) Source MGI Symbol Acc MGI 1347343
G12	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 $\mu$ l QuantiNova Probe RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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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