

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

Mouse Breast Cancer

Cat. no. 249955 UPMM-131ZR

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	Abcb1a	Abcg2	Adam23	Akt1	Apc	Ar	Atm	Bad	Bcl2	Birc5	Brcal	Brcal
B	Ccna1	Ccnd1	Ccnd2	Ccne1	Cdh1	Cdh13	Cdk2	Cdkn1a	Cdkn1c	Cdkn2a	Csf1	Cst6
C	Ctnnb1	Ctsd	Egf	Egfr	ErbB2	Esr1	Esr2	Foxa1	Gata3	Gli1	Grib7	Gstp1
D	Hic1	Id1	Igf1	Igf1r	Igf1p3	Il6	Jun	Krt18	Krt19	Krt5	Krt8	Mapk1
E	Mapk3	Mapk8	Mgmt	Mki67	Mlh1	Mmp2	Mmp9	Muc1	Myc	Nme1	Notch1	Nr3c1
F	Pgr	Plau	Prdm2	Pten	Plgs2	Pycard	Rarb	Rassf1	Rbl	Serpine1	Sfn	Sfrp1
G	Slc39a6	Slt2	Snai2	Src	Ttf3	Tgfb1	Thbs1	Trp53	Trp73	Twist1	Vegfa	Xbp1
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	UPFM0783609	ENSMUST00000047753.4	Abcb1a	ENSMUSG0000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A02	UPFM0861129	ENSMUST000000147213.7	Abcg2	ENSMUSG00000029802	ATP binding cassette subfamily G member 2 (Junior blood group) Source MGI Symbol Acc MGI 1347061
A03	UPFM0816931	ENSMUST000000114107.2	Adam23	ENSMUSG00000025964	a disintegrin and metallopeptidase domain 23 Source MGI Symbol Acc MGI 1345162
A04	UPFM0827860	ENSMUST000000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A05	UPFM0822814	ENSMUST000000163295.1	Apc	ENSMUSG00000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A06	UPFM0784222	ENSMUST000000052837.8	Ar	ENSMUSG0000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A07	UPFM0708773	ENSMUST000000150244.1	Atm	ENSMUSG00000034218	ataxia telangiectasia mutated Source MGI Symbol Acc MGI 107202
A08	UPFM0700303	ENSMUST000000025910.12	Bad	ENSMUSG00000024959	BCL2-associated agonist of cell death Source MGI Symbol Acc MGI 1096330
A09	UPFM0635853	ENSMUST000000112751.1	Bcl2	ENSMUSG00000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A10	UPFM0854913	ENSMUST000000081387.10	Birc5	ENSMUSG00000017716	baculoviral IAP repeat-containing 5 Source MGI Symbol Acc MGI 1203517
A11	UPFM0989907	ENSMUST000000156843.1	Brca1	ENSMUSG00000017146	breast cancer 1, early onset Source MGI Symbol Acc MGI 104537
A12	UPFM0774522	ENSMUST000000201226.1	Brca2	ENSMUSG00000041147	breast cancer 2, early onset Source MGI Symbol Acc MGI 109337
B01	UPFM0794983	ENSMUST000000029368.6	Ccna1	ENSMUSG00000027793	cyclin A1 Source MGI Symbol Acc MGI 108042
B02	UPFM0933463	ENSMUST000000208193.1	Ccnd1	ENSMUSG00000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B03	UPFM0861442	ENSMUST000000201066.1	Ccnd2	ENSMUSG00000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
B04	UPFM0977827	ENSMUST000000130329.1	Ccne1	ENSMUSG00000002068	cyclin E1 Source MGI Symbol Acc MGI 88316
B05	UPFM0883177	ENSMUST000000136580.1	Cdh1	ENSMUSG00000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
B06	UPFM0727192	ENSMUST000000145849.7	Cdh13	ENSMUSG00000031841	cadherin 13 Source MGI Symbol Acc MGI 99551
B07	UPFM0898239	ENSMUST000000219601.1	Cdk2	ENSMUSG00000025358	cyclin-dependent kinase 2 Source MGI Symbol Acc MGI 104772
B08	UPFM0867791	ENSMUST000000122348.2	Cdkn1a	ENSMUSG00000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B09	UPFM0619493	ENSMUST000000037287.7	Cdkn1c	ENSMUSG00000037664	cyclin-dependent kinase inhibitor 1C (P57) Source MGI Symbol Acc MGI 104564
B10	UPFM0702776	ENSMUST000000107131.1	Cdkn2a	ENSMUSG00000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
B11	UPFM0643933	ENSMUST000000155557.1	Csf1	ENSMUSG00000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B12	UPFM0942801	ENSMUST000000237627.1	Cst6	ENSMUSG00000024846	cystatin E/M Source MGI Symbol Acc MGI 1920970
C01	UPFM0985863	ENSMUST000000154356.7	Ctnnb1	ENSMUSG00000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
C02	UPFM0968002	ENSMUST000000153679.1	Ctsd	ENSMUSG00000007891	cathepsin D Source MGI Symbol Acc MGI 88562
C03	UPFM0925725	ENSMUST000000199615.4	Egf	ENSMUSG00000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
C04	UPFM0808781	ENSMUST000000125984.1	Egfr	ENSMUSG00000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C05	UPFM0995088	ENSMUST000000136032.1	ErbB2	ENSMUSG000000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
C06	UPFM0832263	ENSMUST000000105590.7	Esr1	ENSMUSG00000019768	estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467
C07	UPFM0656715	ENSMUST000000133564.8	Esr2	ENSMUSG00000021055	estrogen receptor 2 (beta) Source MGI Symbol Acc MGI 109392
C08	UPFM0641138	ENSMUST000000044380.7	Foxa1	ENSMUSG00000035451	forkhead box A1 Source MGI Symbol Acc MGI 1347472
C09	UPFM0703910	ENSMUST000000151456.1	Gata3	ENSMUSG00000015619	GATA binding protein 3 Source MGI Symbol Acc MGI 95663
C10	UPFM0963642	ENSMUST000000218236.1	Gli1	ENSMUSG00000025407	GLI-Kruppel family member GLI1 Source MGI Symbol Acc MGI 95727
	UPFM066330	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	7	019456.4	Grb7	000019312	growth factor receptor bound protein 7 Source MGI Symbol Acc MGI 102683
C12	UPFM078306 5	ENSMUST00000 237893.1	Gstp1	ENSMUSG00 000060803	glutathione S-transferase, pi 1 Source MGI Symbol Acc MGI 95865
D01	UPFM097894 5	ENSMUST00000 055619.4	Hic1	ENSMUSG00 000043099	hypermethylated in cancer 1 Source MGI Symbol Acc MGI 1338010
D02	UPFM085834 2	ENSMUST00000 109824.1	Id1	ENSMUSG00 000042745	inhibitor of DNA binding 1 Source MGI Symbol Acc MGI 96396
D03	UPFM092941 8	ENSMUST00000 121161.7	Igf1	ENSMUSG00 000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D04	UPFM065329 9	ENSMUST00000 208871.1	Igf1r	ENSMUSG00 000005533	insulin-like growth factor I receptor Source MGI Symbol Acc MGI 96433
D05	UPFM096898 6	ENSMUST00000 020702.10	Igfbp3	ENSMUSG00 000020427	insulin-like growth factor binding protein 3 Source MGI Symbol Acc MGI 96438
D06	UPFM072909 9	ENSMUST00000 195978.4	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D07	UPFM097521 6	ENSMUST00000 107094.1	Jun	ENSMUSG00 000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D08	UPFM090752 8	ENSMUST00000 023803.7	Krt18	ENSMUSG00 000023043	keratin 18 Source MGI Symbol Acc MGI 96692
D09	UPFM100132 1	ENSMUST00000 007317.7	Krt19	ENSMUSG00 000020911	keratin 19 Source MGI Symbol Acc MGI 96693
D10	UPFM094479 5	ENSMUST00000 023709.6	Krt5	ENSMUSG00 000061527	keratin 5 Source MGI Symbol Acc MGI 96702
D11	UPFM066812 9	ENSMUST00000 023952.9	Krt8	ENSMUSG00 000049382	keratin 8 Source MGI Symbol Acc MGI 96705
D12	UPFM066625 9	ENSMUST00000 232611.1	Mapk1	ENSMUSG00 000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
E01	UPFM094029 9	ENSMUST00000 205657.1	Mapk3	ENSMUSG00 000063065	mitogen-activated protein kinase 3 Source MGI Symbol Acc MGI 1346859
E02	UPFM091565 7	ENSMUST00000 111944.9	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
E03	UPFM071101 1	ENSMUST00000 081510.3	Mgmt	ENSMUSG00 000054612	O-6-methylguanine-DNA methyltransferase Source MGI Symbol Acc MGI 96977
E04	UPFM068163 0	ENSMUST00000 211238.1	Mki67	ENSMUSG00 000031004	antigen identified by monoclonal antibody Ki 67 Source MGI Symbol Acc MGI 106035
E05	UPFM084504 4	ENSMUST00000 135695.1	Mlh1	ENSMUSG00 000032498	mutL homolog 1 Source MGI Symbol Acc MGI 101938
E06	UPFM073737 4	ENSMUST00000 211567.1	Mmp2	ENSMUSG00 000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E07	UPFM079930 8	ENSMUST00000 017881.2	Mmp9	ENSMUSG00 000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E08	UPFM073058 5	ENSMUST00000 041142.3	Muc1	ENSMUSG00 000042784	mucin 1, transmembrane Source MGI Symbol Acc MGI 97231
E09	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
E10	UPFM090234 6	ENSMUST00000 135884.7	Nme1	ENSMUSG00 000037601	NME/NM23 nucleoside diphosphate kinase 1 Source MGI Symbol Acc MGI 97355
E11	UPFM079598 7	ENSMUST00000 126872.7	Notch1	ENSMUSG00 000026923	notch 1 Source MGI Symbol Acc MGI 97363
E12	UPFM075838 6	ENSMUST00000 097592.8	Nr3c1	ENSMUSG00 000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
F01	UPFM070208 6	ENSMUST00000 070463.9	Pgr	ENSMUSG00 000031870	progesterone receptor Source MGI Symbol Acc MGI 97567
F02	UPFM083661 6	ENSMUST00000 224141.1	Plau	ENSMUSG00 000021822	plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611
F03	UPFM076748 5	ENSMUST00000 154280.7	Prdm2	ENSMUSG00 000057637	PR domain containing 2, with ZNF domain Source MGI Symbol Acc MGI 107628
F04	UPFM089742 6	ENSMUST00000 013807.7	Pten	ENSMUSG00 000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
F05	UPFM100449 2	ENSMUST00000 190784.1	Ptgs2	ENSMUSG00 000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F06	UPFM084237 4	ENSMUST00000 033056.4	Pycard	ENSMUSG00 000030793	PYD and CARD domain containing Source MGI Symbol Acc MGI 1931465
F07	UPFM067401 5	ENSMUST00000 063750.7	Rarb	ENSMUSG00 000017491	retinoic acid receptor, beta Source MGI Symbol Acc MGI 97857
F08	UPFM080094 7	ENSMUST00000 093786.8	Rassf1	ENSMUSG00 000010067	Ras association (RalGDS/AF-6) domain family member 1 Source MGI Symbol Acc MGI 1928386
F09	UPFM077278 8	ENSMUST00000 022701.6	Rb1	ENSMUSG00 000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F10	UPFM070788 6	ENSMUST00000 041388.10	Serpine1	ENSMUSG00 000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM094111 4	ENSMUST00000 057311.3	Sfn	ENSMUSG00 000047281	stratifin Source MGI Symbol Acc MGI 1891831
F12	UPFM083115 9	ENSMUST00000 033952.7	Sfrp1	ENSMUSG00 000031548	secreted frizzled-related protein 1 Source MGI Symbol Acc MGI 892014
G01	UPFM071357 2	ENSMUST00000 128106.1	Slc39a6	ENSMUSG00 000024270	solute carrier family 39 (metal ion transporter), member 6 Source MGI Symbol Acc MGI 2147279
G02	UPFM066967 1	ENSMUST00000 197400.4	Slit2	ENSMUSG00 000031558	slit guidance ligand 2 Source MGI Symbol Acc MGI 1315205
G03	UPFM072669 0	ENSMUST00000 023356.7	Snai2	ENSMUSG00 000022676	snail family zinc finger 2 Source MGI Symbol Acc MGI 1096393
G04	UPFM071690 7	ENSMUST00000 109531.7	Src	ENSMUSG00 000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G05	UPFM097492 2	ENSMUST00000 024827.4	Tff3	ENSMUSG00 000024029	trefoil factor 3, intestinal Source MGI Symbol Acc MGI 104638
G06	UPFM066688 0	ENSMUST00000 171757.1	Tgfb1	ENSMUSG00 000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G07	UPFM072927 9	ENSMUST00000 039559.8	Thbs1	ENSMUSG00 000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G08	UPFM066913 3	ENSMUST00000 171247.7	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G09	UPFM092417 3	ENSMUST00000 105643.7	Trp73	ENSMUSG00 000029026	transformation related protein 73 Source MGI Symbol Acc MGI 1336991
G10	UPFM089781 8	ENSMUST00000 049089.6	Twist1	ENSMUSG00 000035799	twist basic helix-loop-helix transcription factor 1 Source MGI Symbol Acc MGI 98872
G11	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	UPFM075379 9	ENSMUST00000 149623.7	Xbp1	ENSMUSG00 000020484	X-box binding protein 1 Source MGI Symbol Acc MGI 98970
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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