

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

Rat Breast Cancer

Cat. no. 249955 UPRN-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	Brcal2
B	Ccna1	Ccnd1	Ccnd2	Ccne1	Cdh1	Cdh13	Cdk2	Cdkn1a	Cdkn1c	Cdkn2a	Csf1	Cst6
C	Ctnnb1	Ctsd	Egf	Egfr	Erb2	Esr1	Esr2	Foxa1	Gata3	Gli1	Grib7	Gstp1
D	Hic1	Id1	Igf1	Igf1r	Igfbp3	Il6	Jun	Krt18	Krt19	Krt5	Krt8	Mapk1
E	Mapk3	Mapk8	Mgmt	Mki67	Mlh1	Mmp2	Mmp9	Muc1	Myc	Nme1	Notch1	AABR0703175 6.1
F	Pgr	Plau	Prdm2	Pten	Ptgs2	Pycard	Rarb	Rassf1	Rb1	Serpine1	Sfn	Sfrp1
G	Slc39a6	Slit2	Snai2	Src	TH3	Tgfb1	Thbs1	Tp53	Tp73	Twist1	Vegfa	Xbp1
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFR1045141	ENSRNOT00000037712.5	Abcb1a	ENSRNOG0000008012	ATP binding cassette subfamily B member 4 Source RGD Symbol Acc 620248
A02	UPFR1079489	ENSRNOT00000009546.5	Abcg2	ENSRNOG0000007041	ATP binding cassette subfamily G member 2 Source RGD Symbol Acc 631345
A03	UPFR1079298	ENSRNOT00000040525.2	Adam23	ENSRNOG0000012424	ADAM metallopeptidase domain 23 Source RGD Symbol Acc 1305739
A04	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A05	UPFR1090312	ENSRNOT00000090264.1	Apc	ENSRNOG0000020423	APC, WNT signaling pathway regulator Source RGD Symbol Acc 2123
A06	UPFR1020040	ENSRNOT00000009129.7	Ar	ENSRNOG0000005639	androgen receptor Source RGD Symbol Acc 2147
A07	UPFR1064948	ENSRNOT00000086812.1	Atm	ENSRNOG0000029773	ATM serine/threonine kinase Source RGD Symbol Acc 1593265
A08	UPFR1109796	ENSRNOT00000028712.5	Bad	ENSRNOG0000021147	BCL2-associated agonist of cell death Source RGD Symbol Acc 620103
A09	UPFR1082998	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A10	UPFR1053500	ENSRNOT00000072387.1	Birc5	ENSRNOG00000050819	baculoviral IAP repeat-containing 5 Source RGD Symbol Acc 70499
A11	UPFR1018614	ENSRNOT00000083111.1	Brca1	ENSRNOG0000020701	BRCA1, DNA repair associated Source RGD Symbol Acc 2218
A12	UPFR1085218	ENSRNOT00000001475.7	Brca2	ENSRNOG0000001111	BRCA2, DNA repair associated Source RGD Symbol Acc 2219
B01	UPFR1094876	ENSRNOT00000040002.4	Ccna1	ENSRNOG0000014052	cyclin A1 Source RGD Symbol Acc 1310639
B02	UPFR1042457	ENSRNOT00000088588.1	Ccnd1	ENSRNOG0000020918	cyclin D1 Source RGD Symbol Acc 68384
B03	UPFR1088052	ENSRNOT00000086440.1	Ccnd2	ENSRNOG00000057710	cyclin D2 Source RGD Symbol Acc 621083
B04	UPFR1117418	ENSRNOT00000020014.4	Ccne1	ENSRNOG0000014786	cyclin E1 Source RGD Symbol Acc 2294
B05	UPFR1037315	ENSRNOT00000027346.2	Cdh1	ENSRNOG0000020151	cadherin 1 Source RGD Symbol Acc 69279
B06	UPFR1116742	ENSRNOT00000019298.7	Cdh13	ENSRNOG0000014371	cadherin 13 Source RGD Symbol Acc 619745
B07	UPFR1076908	ENSRNOT00000031963.3	Cdk2	ENSRNOG0000006469	cyclin dependent kinase 2 Source RGD Symbol Acc 70486
B08	UPFR1028644	ENSRNOT00000091731.1	Cdkn1a	ENSRNOG0000000521	cyclin-dependent kinase inhibitor 1A Source RGD Symbol Acc 69328
B09	UPFR1068211	ENSRNOT00000078944.1	Cdkn1c	ENSRNOG00000059500	cyclin-dependent kinase inhibitor 1C Source RGD Symbol Acc 727892
B10	UPFR1104432	ENSRNOT00000079251.1	Cdkn2a	ENSRNOG00000059837	cyclin-dependent kinase inhibitor 2A Source RGD Symbol Acc 2323
B11	UPFR1022984	ENSRNOT00000081835.1	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
B12	UPFR1020001	ENSRNOT00000027727.2	Cst6	ENSRNOG0000020455	cystatin E/M Source RGD Symbol Acc 628799
C01	UPFR1057605	ENSRNOT00000079085.1	Ctnnb1	ENSRNOG00000054172	catenin beta 1 Source RGD Symbol Acc 70487
C02	UPFR1024358	ENSRNOT00000027407.4	Ctsd	ENSRNOG0000020206	cathepsin D Source RGD Symbol Acc 621511
C03	UPFR1045222	ENSRNOT00000087007.1	Egf	ENSRNOG00000053979	epidermal growth factor Source RGD Symbol Acc 2542
C04	UPFR1091984	ENSRNOT00000006087.2	Egfr	ENSRNOG0000004332	epidermal growth factor receptor Source RGD Symbol Acc 2543
C05	UPFR1024636	ENSRNOT00000009114.7	ErbB2	ENSRNOG0000006450	erb-b2 receptor tyrosine kinase 2 Source RGD Symbol Acc 2561
C06	UPFR1099141	ENSRNOT00000026350.7	Esr1	ENSRNOG0000019358	estrogen receptor 1 Source RGD Symbol Acc 2581
C07	UPFR1073940	ENSRNOT00000007109.5	Esr2	ENSRNOG0000005343	estrogen receptor 2 Source RGD Symbol Acc 2582
C08	UPFR1081399	ENSRNOT00000009940.6	Foxa1	ENSRNOG0000009284	forkhead box A1 Source RGD Symbol Acc 2807
C09	UPFR1027517	ENSRNOT00000026187.5	Gata3	ENSRNOG0000019336	GATA binding protein 3 Source RGD Symbol Acc 621250
C10	UPFR1075414	ENSRNOT00000009803.7	Gli1	ENSRNOG0000025120	GLI family zinc finger 1 Source RGD Symbol Acc 621673
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1020693	009299.6	Grb7	000006990	growth factor receptor bound protein 7 Source RGD Symbol Acc 619759
C12	UPFR1075260	ENSRNOT00000024601.4	Gstp1	ENSRNOG0000018237	glutathione S-transferase pi 1 Source RGD Symbol Acc 2758
D01	UPFR1032575	ENSRNOT00000004143.4	Hic1	ENSRNOG0000046405	HIC ZBTB transcriptional repressor 1 Source RGD Symbol Acc 1307527
D02	UPFR1039525	ENSRNOT00000029660.5	Id1	ENSRNOG0000021750	inhibitor of DNA binding 1, HLH protein Source RGD Symbol Acc 2858
D03	UPFR1050099	ENSRNOT00000038780.6	Igf1	ENSRNOG0000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
D04	UPFR1018620	ENSRNOT00000019267.6	Igf1r	ENSRNOG0000014187	insulin-like growth factor 1 receptor Source RGD Symbol Acc 2869
D05	UPFR1013429	ENSRNOT00000088355.1	Igfbp3	ENSRNOG0000061910	insulin-like growth factor binding protein 3 Source RGD Symbol Acc 2874
D06	UPFR1098910	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
D07	UPFR1037970	ENSRNOT00000011731.3	Jun	ENSRNOG0000026293	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2943
D08	UPFR1087499	ENSRNOT00000073951.2	Krt18	ENSRNOG0000047393	keratin 18 Source RGD Symbol Acc 619935
D09	UPFR1087159	ENSRNOT00000019133.4	Krt19	ENSRNOG0000014233	keratin 19 Source RGD Symbol Acc 619936
D10	UPFR1107549	ENSRNOT00000011644.5	Krt5	ENSRNOG0000050420	keratin 5 Source RGD Symbol Acc 727894
D11	UPFR1027596	ENSRNOT00000038480.4	Krt8	ENSRNOG0000009779	keratin 8 Source RGD Symbol Acc 2984
D12	UPFR1055882	ENSRNOT00000002533.7	Mapk1	ENSRNOG000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
E01	UPFR1049954	ENSRNOT00000087625.1	Mapk3	ENSRNOG0000053583	mitogen activated protein kinase 3 Source RGD Symbol Acc 3046
E02	UPFR1048766	ENSRNOT00000065216.3	Mapk8	ENSRNOG0000020155	mitogen-activated protein kinase 8 Source RGD Symbol Acc 621506
E03	UPFR1110488	ENSRNOT00000021537.4	Mgmt	ENSRNOG0000016038	O-6-methylguanine-DNA methyltransferase Source RGD Symbol Acc 3087
E04	UPFR1066912	ENSRNOT00000038176.5	Mki67	ENSRNOG0000028137	marker of proliferation Ki-67 Source RGD Symbol Acc 1305476
E05	UPFR1102175	ENSRNOT00000064581.1	Mlh1	ENSRNOG0000033809	mutL homolog 1 Source RGD Symbol Acc 620937
E06	UPFR1080151	ENSRNOT00000022679.6	Mmp2	ENSRNOG0000016695	matrix metalloproteinase 2 Source RGD Symbol Acc 621316
E07	UPFR1032957	ENSRNOT00000023965.3	Mmp9	ENSRNOG0000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
E08	UPFR1039208	ENSRNOT00000027850.7	Muc1	ENSRNOG0000020539	mucin 1, cell surface associated Source RGD Symbol Acc 3122
E09	UPFR1101439	ENSRNOT00000006188.5	Myc	ENSRNOG0000004500	MYC proto-oncogene, bHLH transcription factor Source RGD Symbol Acc 3130
E10	UPFR1113057	ENSRNOT00000003658.2	Nme1	ENSRNOG000002693	NME/NM23 nucleoside diphosphate kinase 1 Source RGD Symbol Acc 70497
E11	UPFR1044597	ENSRNOT00000026212.7	Notch1	ENSRNOG0000019322	notch 1 Source RGD Symbol Acc 3187
E12	UPFR1073381	ENSRNOT00000044287.4	AABR07031756.1	ENSRNOG0000014096	nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413
F01	UPFR1109781	ENSRNOT00000038313.4	Pgr	ENSRNOG0000006831	progesterone receptor Source RGD Symbol Acc 3317
F02	UPFR1088915	ENSRNOT00000014273.5	Plau	ENSRNOG0000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
F03	UPFR1015291	ENSRNOT00000041175.4	Prdm2	ENSRNOG0000033522	PR/SET domain 2 Source RGD Symbol Acc 1594531
F04	UPFR1043890	ENSRNOT00000028143.3	Pten	ENSRNOG0000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
F05	UPFR1035449	ENSRNOT00000003567.4	Ptgs2	ENSRNOG0000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F06	UPFR1097767	ENSRNOT00000026699.4	Pycard	ENSRNOG0000019675	PYD and CARD domain containing Source RGD Symbol Acc 628637
F07	UPFR1051934	ENSRNOT00000033048.6	Rarb	ENSRNOG0000024061	retinoic acid receptor, beta Source RGD Symbol Acc 3535
F08	UPFR1115677	ENSRNOT00000037375.6	Rassf1	ENSRNOG0000021548	Ras association domain family member 1 Source RGD Symbol Acc 1359383
F09	UPFR1039430	ENSRNOT00000021752.5	Rb1	ENSRNOG0000016029	RB transcriptional corepressor 1 Source RGD Symbol Acc 3540
F10	UPFR1051798	ENSRNOT00000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1042676	ENSRNOT00000043959.4	Sfn	ENSRNOG00000033153	stratifin Source RGD Symbol Acc 1304729
F12	UPFR1075309	ENSRNOT00000024128.6	Sfrp1	ENSRNOG00000017783	secreted frizzled-related protein 1 Source RGD Symbol Acc 621074
G01	UPFR1089374	ENSRNOT00000079381.1	Slc39a6	ENSRNOG00000028703	solute carrier family 39 member 6 Source RGD Symbol Acc 1304664
G02	UPFR1102774	ENSRNOT00000005477.7	Slit2	ENSRNOG00000003840	slit guidance ligand 2 Source RGD Symbol Acc 69310
G03	UPFR1014151	ENSRNOT00000073049.2	Snai2	ENSRNOG00000047699	snail family transcriptional repressor 2 Source RGD Symbol Acc 3722
G04	UPFR1050158	ENSRNOT00000012739.4	Src	ENSRNOG00000009495	SRC proto-oncogene, non-receptor tyrosine kinase Source RGD Symbol Acc 620795
G05	UPFR1081792	ENSRNOT00000066266.3	Tff3	ENSRNOG00000001159	trefoil factor 3 Source RGD Symbol Acc 3847
G06	UPFR1103881	ENSRNOT00000028051.4	Tgfb1	ENSRNOG00000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G07	UPFR1104745	ENSRNOT00000083351.1	Thbs1	ENSRNOG00000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G08	UPFR1095007	ENSRNOT00000085115.1	Tp53	ENSRNOG00000010756	tumor protein p53 Source RGD Symbol Acc 3889
G09	UPFR1104356	ENSRNOT00000055398.2	Tp73	ENSRNOG00000024707	tumor protein p73 Source RGD Symbol Acc 1307083
G10	UPFR1038411	ENSRNOT00000014763.6	Twist1	ENSRNOG00000011101	twist family bHLH transcription factor 1 Source RGD Symbol Acc 621455
G11	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG00000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G12	UPFR1118728	ENSRNOT00000014044.6	Xbp1	ENSRNOG00000010298	X-box binding protein 1 Source RGD Symbol Acc 1303073
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG00000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG00000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG00000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG00000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	UPFR1126610	UPL_RGDC	RGDC	UPL_RGDC	Rat 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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