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

Rat Prostate Cancer

Cat. no. 249955 UPRN-135ZR

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	Acaca	Akt1	Apc	Ar	Arntl	Bcl2	Camkk1	Casp3	Cav1	Cav2	Ccna1
B	Ccnd1	Ccnd2	Cdh1	Cdkn1a	Cdkn2a	Cln3	Creb1	Dab2ip	Daxx	Dkk3	Dlc1	Ect2
C	Ednrb	Egfr	Egr3	Erg	Etv1	Fasn	Gadd45a	Gca	Gnrh1	Gpx3	Gstp1	Hal
D	Hmgcr	Igf1	Igfbp5	Il6	Ints6	Lgals4	Loxl1	Mapk1	Max	Mgmt	Mki67	Msx1
E	Mto1	Ndrg3	Nexn	Nfkb1	Nkx3-1	Nrip1	Pdpk1	Pes1	Ppp2r1b	Prkab1	Pten	Ptgs1
F	Ptgs2	Rarb	Rassf1	Rb1	LOC100910882	Rbp1	Scaf11	Sfn	Sfrp1	Shbg	Slc5a8	Socs3
G	AABR07027575.1	Srebf1	Stk11	Supt7l	Tfpi2	Tgfb1i1	Timp2	Timp3	Tmprss2	Tp53	Usp5	Vegfa
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	ENSRNOG00000008012	ATP binding cassette subfamily B member 4 Source RGD Symbol Acc 620248
A02	UPFR1068311	ENSRNOT00000088138.1	Acaca	ENSRNOG00000034013	acetyl-CoA carboxylase alpha Source RGD Symbol Acc 621248
A03	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG00000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A04	UPFR1090312	ENSRNOT00000090264.1	Apc	ENSRNOG00000020423	APC, WNT signaling pathway regulator Source RGD Symbol Acc 2123
A05	UPFR1020040	ENSRNOT00000009129.7	Ar	ENSRNOG00000005639	androgen receptor Source RGD Symbol Acc 2147
A06	UPFR1100041	ENSRNOT00000046313.4	Arntl	ENSRNOG00000014448	aryl hydrocarbon receptor nuclear translocator-like Source RGD Symbol Acc 62003
A07	UPFR1082998	ENSRNOT00000003768.2	Bcl2	ENSRNOG00000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A08	UPFR1031402	ENSRNOT00000025009.6	Camkk1	ENSRNOG00000018242	calcium/calmodulin-dependent protein kinase kinase 1 Source RGD Symbol Acc 62023
A09	UPFR1091664	ENSRNOT00000014095.5	Casp3	ENSRNOG00000010475	caspase 3 Source RGD Symbol Acc 2275
A10	UPFR1012931	ENSRNOT00000078250.1	Cav1	ENSRNOG00000056836	caveolin 1 Source RGD Symbol Acc 2280
A11	UPFR1045353	ENSRNOT00000080271.1	Cav2	ENSRNOG00000057713	caveolin 2 Source RGD Symbol Acc 620348
A12	UPFR1094876	ENSRNOT00000040002.4	Ccna1	ENSRNOG00000014052	cyclin A1 Source RGD Symbol Acc 1310639
B01	UPFR1042457	ENSRNOT00000088588.1	Ccnd1	ENSRNOG00000020918	cyclin D1 Source RGD Symbol Acc 68384
B02	UPFR1088052	ENSRNOT00000086440.1	Ccnd2	ENSRNOG00000057710	cyclin D2 Source RGD Symbol Acc 621083
B03	UPFR1037315	ENSRNOT00000027346.2	Cdh1	ENSRNOG00000020151	cadherin 1 Source RGD Symbol Acc 69279
B04	UPFR1028644	ENSRNOT00000091731.1	Cdkn1a	ENSRNOG00000000521	cyclin-dependent kinase inhibitor 1A Source RGD Symbol Acc 69328
B05	UPFR1104432	ENSRNOT00000079251.1	Cdkn2a	ENSRNOG00000059837	cyclin-dependent kinase inhibitor 2A Source RGD Symbol Acc 2323
B06	UPFR1072893	ENSRNOT00000025898.4	Cln3	ENSRNOG00000019103	CLN3, battenin Source RGD Symbol Acc 1359537
B07	UPFR1042088	ENSRNOT00000018326.5	Creb1	ENSRNOG00000013412	cAMP responsive element binding protein 1 Source RGD Symbol Acc 620218
B08	UPFR1055137	ENSRNOT00000080760.1	Dab2ip	ENSRNOG00000055226	DAB2 interacting protein Source RGD Symbol Acc 621686
B09	UPFR1068082	ENSRNOT00000092272.1	Daxx	ENSRNOG00000000477	death-domain associated protein Source RGD Symbol Acc 621227
B10	UPFR1110329	ENSRNOT00000022301.6	Dkk3	ENSRNOG00000016343	dickkopf WNT signaling pathway inhibitor 3 Source RGD Symbol Acc 621846
B11	UPFR1103627	ENSRNOT00000014924.3	Dlc1	ENSRNOG00000010780	DLC1 Rho GTPase activating protein Source RGD Symbol Acc 68416
B12	UPFR1080336	ENSRNOT00000093010.1	Ect2	ENSRNOG00000024365	epithelial cell transforming 2 Source RGD Symbol Acc 1308524
C01	UPFR1102346	ENSRNOT00000014747.5	Ednrb	ENSRNOG00000010997	endothelin receptor type B Source RGD Symbol Acc 2536
C02	UPFR1091984	ENSRNOT00000006087.2	Egfr	ENSRNOG00000004332	epidermal growth factor receptor Source RGD Symbol Acc 2543
C03	UPFR1017383	ENSRNOT00000024067.5	Egr3	ENSRNOG00000017828	early growth response 3 Source RGD Symbol Acc 2545
C04	UPFR1092306	ENSRNOT00000078425.1	Erg	ENSRNOG00000001652	ETS transcription factor ERG Source RGD Symbol Acc 621108
C05	UPFR1106319	ENSRNOT00000065396.3	Etv1	ENSRNOG00000006867	ets variant 1 Source RGD Symbol Acc 1312007
C06	UPFR1036900	ENSRNOT00000073321.2	Fasn	ENSRNOG00000045636	fatty acid synthase Source RGD Symbol Acc 620665
C07	UPFR1092990	ENSRNOT00000007698.6	Gadd45a	ENSRNOG00000005615	growth arrest and DNA-damage-inducible, alpha Source RGD Symbol Acc 2654
C08	UPFR1084983	ENSRNOT00000009697.7	Gca	ENSRNOG00000007359	grancalcin Source RGD Symbol Acc 1306589
C09	UPFR1066446	ENSRNOT00000018006.3	Gnrh1	ENSRNOG00000013441	gonadotropin releasing hormone 1 Source RGD Symbol Acc 2720
C10	UPFR1072810	ENSRNOT00000079830.1	Gpx3	ENSRNOG00000052564	glutathione peroxidase 3 Source RGD Symbol Acc 69224
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1075260	024601.4	Gstp1	000018237	glutathione S-transferase pi 1 Source RGD Symbol Acc 2758
C12	UPFR1118205	ENSRNOT00000 006971.6	Hal	ENSRNOG00 000004502	histidine ammonia lyase Source RGD Symbol Acc 68363
D01	UPFR1042968	ENSRNOT00000 022055.4	Hmgcr	ENSRNOG00 000016122	3-hydroxy-3-methylglutaryl-CoA reductase Source RGD Symbol Acc 2803
D02	UPFR1050099	ENSRNOT00000 038780.6	Igf1	ENSRNOG00 000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
D03	UPFR1090111	ENSRNOT00000 079493.1	Igfbp5	ENSRNOG00 000017206	insulin-like growth factor binding protein 5 Source RGD Symbol Acc 2876
D04	UPFR1098910	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D05	UPFR1045596	ENSRNOT00000 086271.1	Ints6	ENSRNOG00 000009873	integrator complex subunit 6 Source RGD Symbol Acc 1309480
D06	UPFR1073081	ENSRNOT00000 041205.2	Lgals4	ENSRNOG00 000020338	galectin 4 Source RGD Symbol Acc 3003
D07	UPFR1107886	ENSRNOT00000 034300.6	Loxl1	ENSRNOG00 000008680	lysyl oxidase-like 1 Source RGD Symbol Acc 1308752
D08	UPFR1055882	ENSRNOT00000 002533.7	Mapk1	ENSRNOG00 000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
D09	UPFR1112291	ENSRNOT00000 010954.5	Max	ENSRNOG00 000008049	MYC associated factor X Source RGD Symbol Acc 621101
D10	UPFR1110488	ENSRNOT00000 021537.4	Mgmt	ENSRNOG00 000016038	O-6-methylguanine-DNA methyltransferase Source RGD Symbol Acc 3087
D11	UPFR1066912	ENSRNOT00000 038176.5	Mki67	ENSRNOG00 000028137	marker of proliferation Ki-67 Source RGD Symbol Acc 1305476
D12	UPFR1053919	ENSRNOT00000 009101.5	Msx1	ENSRNOG00 000006876	msh homeobox 1 Source RGD Symbol Acc 620929
E01	UPFR1087573	ENSRNOT00000 057138.4	Mto1	ENSRNOG00 000037659	mitochondrial tRNA translation optimization 1 Source RGD Symbol Acc 1308830
E02	UPFR1119407	ENSRNOT00000 055232.3	Ndrg3	ENSRNOG00 000036813	similar to N-myc downstream regulated 3 Source NCBI gene Acc 679863
E03	UPFR1029903	ENSRNOT00000 016967.7	Nexn	ENSRNOG00 000012512	nexilin (F actin binding protein) Source RGD Symbol Acc 708354
E04	UPFR1116688	ENSRNOT00000 036838.4	Nfkb1	ENSRNOG00 000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
E05	UPFR1024160	ENSRNOT00000 020753.7	Nkx3-1	ENSRNOG00 000015477	NK3 homeobox 1 Source RGD Symbol Acc 1305369
E06	UPFR1042971	ENSRNOT00000 002152.3	Nrip1	ENSRNOG00 000001585	nuclear receptor interacting protein 1 Source RGD Symbol Acc 1311850
E07	UPFR1093188	ENSRNOT00000 067660.1	Pdpk1	ENSRNOG00 000006136	3-phosphoinositide dependent protein kinase-1 Source RGD Symbol Acc 620307
E08	UPFR1102927	ENSRNOT00000 005996.4	Pes1	ENSRNOG00 000004515	pescadillo ribosomal biogenesis factor 1 Source RGD Symbol Acc 1559814
E09	UPFR1072545	ENSRNOT00000 064290.2	Ppp2r1b	ENSRNOG00 000010922	protein phosphatase 2 scaffold subunit A beta Source RGD Symbol Acc 1304764
E10	UPFR1066685	ENSRNOT00000 001508.3	Prkab1	ENSRNOG00 000001142	protein kinase AMP-activated non-catalytic subunit beta 1 Source RGD Symbol Acc 71057
E11	UPFR1043890	ENSRNOT00000 028143.3	Pten	ENSRNOG00 000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
E12	UPFR1053064	ENSRNOT00000 010218.5	Ptgs1	ENSRNOG00 000007415	prostaglandin-endoperoxide synthase 1 Source RGD Symbol Acc 3439
F01	UPFR1035449	ENSRNOT00000 003567.4	Ptgs2	ENSRNOG00 000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F02	UPFR1051934	ENSRNOT00000 033048.6	Rarb	ENSRNOG00 000024061	retinoic acid receptor, beta Source RGD Symbol Acc 3535
F03	UPFR1115677	ENSRNOT00000 037375.6	Rassf1	ENSRNOG00 000021548	Ras association domain family member 1 Source RGD Symbol Acc 1359383
F04	UPFR1039430	ENSRNOT00000 021752.5	Rb1	ENSRNOG00 000016029	RB transcriptional corepressor 1 Source RGD Symbol Acc 3540
F05	UPFR1062194	ENSRNOT00000 026964.7	LOC10091 0882	ENSRNOG00 000019848	RNA binding motif protein 39 Source RGD Symbol Acc 1310071
F06	UPFR1086503	ENSRNOT00000 018622.4	Rbp1	ENSRNOG00 000013794	retinol binding protein 1 Source RGD Symbol Acc 3543
F07	UPFR1032002	ENSRNOT00000 007003.7	Scaf11	ENSRNOG00 000005263	SR-related CTD-associated factor 11 Source RGD Symbol Acc 1598325
F08	UPFR1042676	ENSRNOT00000 043959.4	Sfn	ENSRNOG00 000033153	stratifin Source RGD Symbol Acc 1304729
F09	UPFR1075309	ENSRNOT00000 024128.6	Sfrp1	ENSRNOG00 000017783	secreted frizzled-related protein 1 Source RGD Symbol Acc 621074
F10	UPFR1099398	ENSRNOT00000 015248.4	Shbg	ENSRNOG00 000011357	sex hormone binding globulin Source RGD Symbol Acc 3671

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1078694	ENSRNOT00000008613.7	Slc5a8	ENSRNOG00000006367	solute carrier family 5 member 8 Source RGD Symbol Acc 1564146
F12	UPFR1069728	ENSRNOT00000003940.3	Socs3	ENSRNOG00000002946	suppressor of cytokine signaling 3 Source RGD Symbol Acc 621087
G01	UPFR1126582	ENSRNOT00000080424.1	AABR07027575.1	ENSRNOG00000058289	
G02	UPFR1104408	ENSRNOT00000004753.5	Srebf1	ENSRNOG00000003463	sterol regulatory element binding transcription factor 1 Source RGD Symbol Acc 69423
G03	UPFR1113401	ENSRNOT00000060683.3	Stk11	ENSRNOG00000014287	serine/threonine kinase 11 Source RGD Symbol Acc 1308653
G04	UPFR1027078	ENSRNOT00000006543.4	Supt7l	ENSRNOG00000004927	SPT7-like STAGA complex gamma subunit Source RGD Symbol Acc 1562206
G05	UPFR1028812	ENSRNOT00000013989.3	Tfpi2	ENSRNOG00000010513	tissue factor pathway inhibitor 2 Source RGD Symbol Acc 628629
G06	UPFR1045420	ENSRNOT00000054980.3	Tgfb1i1	ENSRNOG00000019965	transforming growth factor beta 1 induced transcript 1 Source RGD Symbol Acc 620173
G07	UPFR1066754	ENSRNOT00000004290.4	Timp2	ENSRNOG00000003148	TIMP metallopeptidase inhibitor 2 Source RGD Symbol Acc 61312
G08	UPFR1107259	ENSRNOT00000005746.5	Timp3	ENSRNOG00000004303	TIMP metallopeptidase inhibitor 3 Source RGD Symbol Acc 3865
G09	UPFR1027735	ENSRNOT00000066413.3	Tmprss2	ENSRNOG00000001976	transmembrane serine protease 2 Source RGD Symbol Acc 620766
G10	UPFR1095007	ENSRNOT00000085115.1	Tp53	ENSRNOG00000010756	tumor protein p53 Source RGD Symbol Acc 3889
G11	UPFR1021395	ENSRNOT00000020785.5	Usp5	ENSRNOG00000015409	ubiquitin specific peptidase 5 Source RGD Symbol Acc 1308438
G12	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG00000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.