

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

Human Prostate Cancer

Cat. no. 249955 UPHS-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	ACACA	AKT1	APC	AR	ARNTL	BCL2	CAMKK1	CAMSAP1	CASP3	CAV1	CAV2	CCNA1
B	CCND1	CCND2	CDH1	CDKN2A	CLN3	CREB1	DAXX	DDX11	DKK3	DLC1	ECT2	EDNRB
C	EGFR	EGR3	ERG	ETV1	FASN	FOXO1	GCA	GNRH1	GPX3	GSTP1	HAL	HMGCR
D	IGF1	IGFBP5	IL6	KLHL13	KLK3	LGALS4	LOXL1	MAPK1	MAX	MGMT	MKI67	MSX1
E	MTOR	NDRG3	NFKB1	NKX3-1	NRIP1	PDLIM4	PDPK1	PES1	PPP2R1B	PRKAB1	PTEN	PTGS1
F	PTGS2	RARB	RASSF1	RBM39	SCAF11	SEPT7	SFRP1	SHBG	SLC5A8	SOC3	SOX4	SREBF1
G	STK11	SUPT7L	TFPI2	TGFB111	TIMP2	TIMP3	TMPS2	TNFRSF10D	TP53	USP5	VEGFA	ZNF185
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0196586	ENST00000617649.4	ACACA	ENSG00000278540	acetyl-CoA carboxylase alpha Source HGNC Symbol Acc HGNC 84
A02	UPFH0453992	ENST00000555528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A03	UPFH1132236	ENST00000257430.9	APC	ENSG00000134982	APC, WNT signaling pathway regulator Source HGNC Symbol Acc HGNC 583
A04	UPFH0268128	ENST00000374690.8	AR	ENSG00000169083	androgen receptor Source HGNC Symbol Acc HGNC 644
A05	UPFH0107429	ENST00000472842.1	ARNTL	ENSG00000133794	aryl hydrocarbon receptor nuclear translocator like Source HGNC Symbol Acc HGNC 701
A06	UPFH1132900	ENST00000333681.5	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A07	UPFH0334740	ENST00000348335.6	CAMKK1	ENSG00000004660	calcium/calmodulin dependent protein kinase kinase 1 Source HGNC Symbol Acc HGNC 1469
A08	UPFH0291668	ENST00000487868.1	CAMSAP1	ENSG00000130559	calmodulin regulated spectrin associated protein 1 Source HGNC Symbol Acc HGNC 19946
A09	UPFH1132892	ENST00000523916.5	CASP3	ENSG00000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
A10	UPFH0192343	ENST00000393468.1	CAV1	ENSG00000105974	caveolin 1 Source HGNC Symbol Acc HGNC 1527
A11	UPFH1132285	ENST00000222693.5	CAV2	ENSG00000105971	caveolin 2 Source HGNC Symbol Acc HGNC 1528
A12	UPFH0417476	ENST00000255465.7	CCNA1	ENSG00000133101	cyclin A1 Source HGNC Symbol Acc HGNC 1577
B01	UPFH0430337	ENST00000227507.2	CCND1	ENSG00000110092	cyclin D1 Source HGNC Symbol Acc HGNC 1582
B02	UPFH1132296	ENST00000261254.8	CCND2	ENSG00000118971	cyclin D2 Source HGNC Symbol Acc HGNC 1583
B03	UPFH1132791	ENST00000261769.10	CDH1	ENSG00000039068	cadherin 1 Source HGNC Symbol Acc HGNC 1748
B04	UPFH0246593	ENST00000494262.5	CDKN2A	ENSG00000147889	cyclin dependent kinase inhibitor 2A Source HGNC Symbol Acc HGNC 1787
B05	UPFH0330668	ENST00000359984.12	CLN3	ENSG00000188603	CLN3, battenin Source HGNC Symbol Acc HGNC 2074
B06	UPFH0199960	ENST00000480189.5	CREB1	ENSG00000118260	cAMP responsive element binding protein 1 Source HGNC Symbol Acc HGNC 2345
B07	UPFH0580487	ENST00000477370.1	DAXX	ENSG00000204209	death domain associated protein Source HGNC Symbol Acc HGNC 2681
B08	UPFH0446324	ENST00000415475.6	DDX11	ENSG00000013573	DEAD/H-box helicase 11 Source HGNC Symbol Acc HGNC 2736
B09	UPFH1132869	ENST00000525493.5	DKK3	ENSG00000050165	dickkopf WNT signaling pathway inhibitor 3 Source HGNC Symbol Acc HGNC 2893
B10	UPFH0418198	ENST00000521730.1	DLC1	ENSG00000164741	DLC1 Rho GTPase activating protein Source HGNC Symbol Acc HGNC 2897
B11	UPFH0147402	ENST00000428567.5	ECT2	ENSG00000114346	epithelial cell transforming 2 Source HGNC Symbol Acc HGNC 3155
B12	UPFH0050752	ENST00000377211.8	EDNRB	ENSG00000136160	endothelin receptor type B Source HGNC Symbol Acc HGNC 3180
C01	UPFH1132381	ENST00000420316.6	EGFR	ENSG00000146648	epidermal growth factor receptor Source HGNC Symbol Acc HGNC 3236
C02	UPFH0445244	ENST00000522910.1	EGR3	ENSG00000179388	early growth response 3 Source HGNC Symbol Acc HGNC 3240
C03	UPFH0468409	ENST00000492833.5	ERG	ENSG00000157554	ETS transcription factor ERG Source HGNC Symbol Acc HGNC 3446
C04	UPFH0072873	ENST00000476355.5	ETV1	ENSG00000006468	ETS variant 1 Source HGNC Symbol Acc HGNC 3490
C05	UPFH0422393	ENST00000635197.1	FASN	ENSG00000169710	fatty acid synthase Source HGNC Symbol Acc HGNC 3594
C06	UPFH0401417	ENST00000379561.6	FOXO1	ENSG00000150907	forkhead box O1 Source HGNC Symbol Acc HGNC 3819
C07	UPFH0109988	ENST00000453113.6	GCA	ENSG00000115271	grancalcin Source HGNC Symbol Acc HGNC 15990
C08	UPFH0288274	ENST00000421054.7	GNRH1	ENSG00000147437	gonadotropin releasing hormone 1 Source HGNC Symbol Acc HGNC 4419
C09	UPFH1132803	ENST00000622181.4	GPX3	ENSG00000211445	glutathione peroxidase 3 Source HGNC Symbol Acc HGNC 4555
C10	UPFH0262059	ENST00000398606.8	GSTP1	ENSG00000084207	glutathione S-transferase pi 1 Source HGNC Symbol Acc HGNC 4638
		ENST00000552		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0531985	509.5	HAL	084110	histidine ammonia-lyase Source HGNC Symbol Acc HGNC 4806
C12	UPFH0368825	ENST00000343975.9	HMGCR	ENSG00000113161	3-hydroxy-3-methylglutaryl-CoA reductase Source HGNC Symbol Acc HGNC 5006
D01	UPFH0229443	ENST00000337514.10	IGF1	ENSG00000017427	insulin like growth factor 1 Source HGNC Symbol Acc HGNC 5464
D02	UPFH1132475	ENST00000449583.1	IGFBP5	ENSG000000115461	insulin like growth factor binding protein 5 Source HGNC Symbol Acc HGNC 5474
D03	UPFH1172910	ENST00000258743.10	IL6	ENSG000000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D04	UPFH0579805	ENST00000262820.7	KLHL13	ENSG000000003096	kelch like family member 13 Source HGNC Symbol Acc HGNC 22931
D05	UPFH1132511	ENST00000617027.4	KLK3	ENSG000000142515	kallikrein related peptidase 3 Source HGNC Symbol Acc HGNC 6364
D06	UPFH0030723	ENST00000600070.1	LGALS4	ENSG000000171747	galectin 4 Source HGNC Symbol Acc HGNC 6565
D07	UPFH0610480	ENST00000566530.1	LOXL1	ENSG000000129038	lysyl oxidase like 1 Source HGNC Symbol Acc HGNC 6665
D08	UPFH0366815	ENST00000215832.10	MAPK1	ENSG000000100030	mitogen-activated protein kinase 1 Source HGNC Symbol Acc HGNC 6871
D09	UPFH0191124	ENST00000556443.5	MAX	ENSG000000125952	MYC associated factor X Source HGNC Symbol Acc HGNC 6913
D10	UPFH0403444	ENST00000306010.8	MGMT	ENSG000000170430	O-6-methylguanine-DNA methyltransferase Source HGNC Symbol Acc HGNC 7059
D11	UPFH1132549	ENST00000368653.7	MKI67	ENSG000000148773	marker of proliferation Ki-67 Source HGNC Symbol Acc HGNC 7107
D12	UPFH0298422	ENST00000652146.1	MSX1	ENSG000000163132	msh homeobox 1 Source HGNC Symbol Acc HGNC 7391
E01	UPFH0165455	ENST00000552156.5	MTO1	ENSG000000135297	mitochondrial tRNA translation optimization 1 Source HGNC Symbol Acc HGNC 19261
E02	UPFH0507410	ENST00000422536.2	NDRG3	ENSG000000101079	NDRG family member 3 Source HGNC Symbol Acc HGNC 14462
E03	UPFH1132828	ENST00000226574.9	NFKB1	ENSG000000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E04	UPFH0080326	ENST00000523261.1	NKX3-1	ENSG000000167034	NK3 homeobox 1 Source HGNC Symbol Acc HGNC 7838
E05	UPFH0106446	ENST00000637963.1	NRIP1	ENSG000000180530	nuclear receptor interacting protein 1 Source HGNC Symbol Acc HGNC 8001
E06	UPFH0549703	ENST00000253754.8	PDLIM4	ENSG000000131435	PDZ and LIM domain 4 Source HGNC Symbol Acc HGNC 16501
E07	UPFH0104991	ENST00000389224.7	PDPK1	ENSG000000140992	3-phosphoinositide dependent protein kinase 1 Source HGNC Symbol Acc HGNC 8816
E08	UPFH0583385	ENST00000433575.5	PES1	ENSG000000100029	pescadillo ribosomal biogenesis factor 1 Source HGNC Symbol Acc HGNC 8848
E09	UPFH0521589	ENST00000531890.1	PPP2R1B	ENSG000000137713	protein phosphatase 2 scaffold subunit Abeta Source HGNC Symbol Acc HGNC 9303
E10	UPFH0062531	ENST00000545223.1	PRKAB1	ENSG000000111725	protein kinase AMP-activated non-catalytic subunit beta 1 Source HGNC Symbol Acc HGNC 9378
E11	UPFH1132982	ENST00000371953.8	PTEN	ENSG000000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
E12	UPFH0450481	ENST00000619306.5	PTGS1	ENSG000000095303	prostaglandin-endoperoxide synthase 1 Source HGNC Symbol Acc HGNC 9604
F01	UPFH1132642	ENST00000367468.10	PTGS2	ENSG000000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F02	UPFH0083509	ENST00000458646.1	RARB	ENSG000000077092	retinoic acid receptor beta Source HGNC Symbol Acc HGNC 9865
F03	UPFH0117232	ENST00000616212.4	RASSF1	ENSG000000068028	Ras association domain family member 1 Source HGNC Symbol Acc HGNC 9882
F04	UPFH0221090	ENST00000492779.5	RBM39	ENSG000000131051	RNA binding motif protein 39 Source HGNC Symbol Acc HGNC 15923
F05	UPFH0369426	ENST00000266589.10	SCAF11	ENSG000000139218	SR-related CTD associated factor 11 Source HGNC Symbol Acc HGNC 10784
F06	UPFH0135769	ENST00000635669.1	SEPT7	ENSG000000122545	septin 7 Source HGNC Symbol Acc HGNC 1717
F07	UPFH1132676	ENST00000220772.8	SFRP1	ENSG000000104332	secreted frizzled related protein 1 Source HGNC Symbol Acc HGNC 10776
F08	UPFH0555095	ENST00000575618.5	SHBG	ENSG000000129214	sex hormone binding globulin Source HGNC Symbol Acc HGNC 10839
F09	UPFH0505642	ENST00000536262.2	SLC5A8	ENSG000000256870	solute carrier family 5 member 8 Source HGNC Symbol Acc HGNC 19119
F10	UPFH1132974	ENST00000330871.3	SOCS3	ENSG000000184557	suppressor of cytokine signaling 3 Source HGNC Symbol Acc HGNC 19391

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0188647	ENST00000244745.3	SOX4	ENSG00000124766	SRY-box 4 Source HGNC Symbol Acc HGNC 11200
F12	UPFH0380685	ENST00000490796.1	SREBF1	ENSG00000072310	sterol regulatory element binding transcription factor 1 Source HGNC Symbol Acc HGNC 11289
G01	UPFH0426138	ENST00000586358.5	STK11	ENSG00000118046	serine/threonine kinase 11 Source HGNC Symbol Acc HGNC 11389
G02	UPFH0139725	ENST00000406540.5	SUPT7L	ENSG00000119760	SPT7 like, STAGA complex gamma subunit Source HGNC Symbol Acc HGNC 30632
G03	UPFH0014469	ENST00000451238.1	TFPI2	ENSG00000105825	tissue factor pathway inhibitor 2 Source HGNC Symbol Acc HGNC 11761
G04	UPFH0013326	ENST00000394858.6	TGFB11	ENSG00000140682	transforming growth factor beta 1 induced transcript 1 Source HGNC Symbol Acc HGNC 11767
G05	UPFH0276014	ENST00000262768.11	TIMP2	ENSG00000035862	TIMP metalloproteinase inhibitor 2 Source HGNC Symbol Acc HGNC 11821
G06	UPFH0118826	ENST00000266085.6	TIMP3	ENSG00000100234	TIMP metalloproteinase inhibitor 3 Source HGNC Symbol Acc HGNC 11822
G07	UPFH0464505	ENST00000424093.5	TMPRSS2	ENSG00000184012	transmembrane serine protease 2 Source HGNC Symbol Acc HGNC 11876
G08	UPFH0363243	ENST00000312584.4	TNFRSF10D	ENSG00000173530	TNF receptor superfamily member 10d Source HGNC Symbol Acc HGNC 11907
G09	UPFH0565795	ENST00000269305.8	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G10	UPFH0224251	ENST00000535080.1	USP5	ENSG00000111667	ubiquitin specific peptidase 5 Source HGNC Symbol Acc HGNC 12628
G11	UPFH0281656	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
G12	UPFH0021624	ENST00000539731.5	ZNF185	ENSG00000147394	zinc finger protein 185 with LIM domain Source HGNC Symbol Acc HGNC 12976
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	UPFH1126608	UPL_HGDC	HGDC	UPL_HGDC	Human 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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