

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

Human Estrogen Receptor Signaling

Cat. no. 249955 UPHS-005ZR

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	AHR	AKAP1	APBB1	BCAR1	BCL2L1	BDNF	BMP4	BMP7	BRCA1	C3	CAV1	CCL2
B	CCND1	CITED2	CKB	CCN2	CTSD	CYP19A1	CYP1A1	EBAG9	EFNA5	EGR3	ERBB2	ERBB3
C	ESR1	ESR2	FOS	FOXA1	FST	G6PD	GPER1	HSP90AA1	IGF1	IGFBP4	IGFBP5	IRS1
D	JUNB	KLK3	L1CAM	LGALS1	LPL	LTBP1	MAFF	MED1	MMP9	MTA1	MYC	NAB2
E	NCOA1	NCOA2	NCOA3	NCOR1	NCOR2	CCN3	NR0B1	NR0B2	NR2F6	NR3C1	NR5A2	NRIP1
F	NRP1	PDZK1	PELP1	PGR	PHB2	PTCH1	PTGS2	RALA	RARA	S100A6	SAFB	SNAI1
G	SOCS3	SPP1	TFF1	TGFA	TGFB3	THBS1	VDR	VEGFA	CCN5	WNT4	WNT5A	XPB1
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	UPFH0406527	ENST00000463496.1	AHR	ENSG00000106546	aryl hydrocarbon receptor Source HGNC Symbol Acc HGNC 348
A02	UPFH0566033	ENST00000572557.5	AKAP1	ENSG00000121057	A-kinase anchoring protein 1 Source HGNC Symbol Acc HGNC 367
A03	UPFH0423011	ENST00000608394.5	APBB1	ENSG00000166313	amyloid beta precursor protein binding family B member 1 Source HGNC Symbol Acc HGNC 581
A04	UPFH0300381	ENST00000418647.7	BCAR1	ENSG00000050820	BCAR1, Cas family scaffold protein Source HGNC Symbol Acc HGNC 971
A05	UPFH1132271	ENST00000376062.6	BCL2L1	ENSG00000171552	BCL2 like 1 Source HGNC Symbol Acc HGNC 992
A06	UPFH0520944	ENST00000525528.1	BDNF	ENSG00000176697	brain derived neurotrophic factor Source HGNC Symbol Acc HGNC 1033
A07	UPFH0443169	ENST00000558984.1	BMP4	ENSG00000125378	bone morphogenetic protein 4 Source HGNC Symbol Acc HGNC 1071
A08	UPFH1132781	ENST00000433911.1	BMP7	ENSG00000101144	bone morphogenetic protein 7 Source HGNC Symbol Acc HGNC 1074
A09	UPFH1132279	ENST00000461574.1	BRCA1	ENSG000000102048	BRCA1, DNA repair associated Source HGNC Symbol Acc HGNC 1100
A10	UPFH1132902	ENST00000596548.1	C3	ENSG00000125730	complement C3 Source HGNC Symbol Acc HGNC 1318
A11	UPFH0192343	ENST00000393468.1	CAV1	ENSG00000105974	caveolin 1 Source HGNC Symbol Acc HGNC 1527
A12	UPFH1132783	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
B01	UPFH0430337	ENST00000227507.2	CCND1	ENSG00000110092	cyclin D1 Source HGNC Symbol Acc HGNC 1582
B02	UPFH0308632	ENST00000536159.2	CITED2	ENSG00000164442	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 Source HGNC Symbol Acc HGNC 1987
B03	UPFH0014186	ENST00000553610.5	CKB	ENSG00000166165	creatine kinase B Source HGNC Symbol Acc HGNC 1991
B04	UPFH1132340	ENST00000367976.4	CCN2	ENSG00000118523	cellular communication network factor 2 Source HGNC Symbol Acc HGNC 2500
B05	UPFH1132343	ENST00000637815.1	CTSD	ENSG00000117984	cathepsin D Source HGNC Symbol Acc HGNC 2529
B06	UPFH0371849	ENST00000439712.6	CYP19A1	ENSG00000137869	cytochrome P450 family 19 subfamily A member 1 Source HGNC Symbol Acc HGNC 2594
B07	UPFH0157953	ENST00000379727.8	CYP1A1	ENSG00000140465	cytochrome P450 family 1 subfamily A member 1 Source HGNC Symbol Acc HGNC 2595
B08	UPFH0191443	ENST00000531677.5	EBAG9	ENSG00000147654	estrogen receptor binding site associated, antigen, 9 Source HGNC Symbol Acc HGNC 3123
B09	UPFH0556482	ENST00000333274.11	EFNA5	ENSG00000184349	ephrin A5 Source HGNC Symbol Acc HGNC 3225
B10	UPFH0445244	ENST00000522910.1	EGR3	ENSG00000179388	early growth response 3 Source HGNC Symbol Acc HGNC 3240
B11	UPFH1132388	ENST00000541774.5	ERBB2	ENSG00000141736	erb-b2 receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 3430
B12	UPFH0049356	ENST00000267101.7	ERBB3	ENSG00000065361	erb-b2 receptor tyrosine kinase 3 Source HGNC Symbol Acc HGNC 3431
C01	UPFH0599047	ENST00000206249.7	ESR1	ENSG00000091831	estrogen receptor 1 Source HGNC Symbol Acc HGNC 3467
C02	UPFH0094598	ENST00000358599.9	ESR2	ENSG00000140009	estrogen receptor 2 Source HGNC Symbol Acc HGNC 3468
C03	UPFH1132401	ENST00000555242.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
C04	UPFH0457116	ENST00000250448.3	FOXA1	ENSG00000129514	forkhead box A1 Source HGNC Symbol Acc HGNC 5021
C05	UPFH0474678	ENST00000396947.7	FST	ENSG00000134363	follistatin Source HGNC Symbol Acc HGNC 3971
C06	UPFH0397211	ENST00000621232.5	G6PD	ENSG00000160211	glucose-6-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4057
C07	UPFH0381789	ENST00000619052.1	GPER1	ENSG00000164850	G protein-coupled estrogen receptor 1 Source HGNC Symbol Acc HGNC 4485
C08	UPFH0292880	ENST00000334701.11	HSP90AA1	ENSG00000080824	heat shock protein 90 alpha family class A member 1 Source HGNC Symbol Acc HGNC 5253
C09	UPFH0229443	ENST00000337514.10	IGF1	ENSG00000017427	insulin like growth factor 1 Source HGNC Symbol Acc HGNC 5464
C10	UPFH1132474	ENST00000269593.5	IGFBP4	ENSG00000141753	insulin like growth factor binding protein 4 Source HGNC Symbol Acc HGNC 5473
		ENST00000449		ENSG000000	insulin like growth factor binding protein 5 Source HGNC Symbol Acc HGNC

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1132475	583.1	IGFBP5	115461	5474
C12	UPFH0592509	ENST00000305123.5	IRS1	ENSG00000169047	insulin receptor substrate 1 Source HGNC Symbol Acc HGNC 6125
D01	UPFH1132504	ENST00000302754.6	JUNB	ENSG00000171223	JunB proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6205
D02	UPFH1132511	ENST00000617027.4	KLK3	ENSG00000142515	kallikrein related peptidase 3 Source HGNC Symbol Acc HGNC 6364
D03	UPFH0611111	ENST00000458029.1	L1CAM	ENSG00000198910	L1 cell adhesion molecule Source HGNC Symbol Acc HGNC 6470
D04	UPFH0442769	ENST00000215909.10	LGALS1	ENSG00000100097	galectin 1 Source HGNC Symbol Acc HGNC 6561
D05	UPFH1132523	ENST00000311322.10	LPL	ENSG00000175445	lipoprotein lipase Source HGNC Symbol Acc HGNC 6677
D06	UPFH0150319	ENST00000407925.5	LTBP1	ENSG00000049323	latent transforming growth factor beta binding protein 1 Source HGNC Symbol Acc HGNC 6714
D07	UPFH0047258	ENST00000538999.1	MAFF	ENSG00000185022	MAF bZIP transcription factor F Source HGNC Symbol Acc HGNC 6780
D08	UPFH0158491	ENST00000394287.7	MED1	ENSG00000125686	mediator complex subunit 1 Source HGNC Symbol Acc HGNC 9234
D09	UPFH0367626	ENST00000372330.3	MMP9	ENSG00000100985	matrix metalloproteinase 9 Source HGNC Symbol Acc HGNC 7176
D10	UPFH0234938	ENST00000331320.12	MTA1	ENSG00000182979	metastasis associated 1 Source HGNC Symbol Acc HGNC 7410
D11	UPFH1132563	ENST00000517291.1	MYC	ENSG00000136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
D12	UPFH0396952	ENST00000342556.6	NAB2	ENSG00000166886	NGFI-A binding protein 2 Source HGNC Symbol Acc HGNC 7627
E01	UPFH0385216	ENST00000406961.5	NCOA1	ENSG00000084676	nuclear receptor coactivator 1 Source HGNC Symbol Acc HGNC 7668
E02	UPFH0401168	ENST00000518363.2	NCOA2	ENSG00000140396	nuclear receptor coactivator 2 Source HGNC Symbol Acc HGNC 7669
E03	UPFH1132566	ENST00000372004.7	NCOA3	ENSG00000124151	nuclear receptor coactivator 3 Source HGNC Symbol Acc HGNC 7670
E04	UPFH0243851	ENST00000411510.5	NCOR1	ENSG00000141027	nuclear receptor corepressor 1 Source HGNC Symbol Acc HGNC 7672
E05	UPFH0442832	ENST00000443451.6	NCOR2	ENSG00000196498	nuclear receptor corepressor 2 Source HGNC Symbol Acc HGNC 7673
E06	UPFH0269869	ENST00000259526.4	CCN3	ENSG00000136999	cellular communication network factor 3 Source HGNC Symbol Acc HGNC 7885
E07	UPFH0362291	ENST00000378970.4	NR0B1	ENSG00000169297	nuclear receptor subfamily 0 group B member 1 Source HGNC Symbol Acc HGNC 7960
E08	UPFH1125145	ENST00000254227.4	NR0B2	ENSG00000131910	nuclear receptor subfamily 0 group B member 2 Source HGNC Symbol Acc HGNC 7961
E09	UPFH0198907	ENST00000291442.3	NR2F6	ENSG00000160113	nuclear receptor subfamily 2 group F member 6 Source HGNC Symbol Acc HGNC 7977
E10	UPFH1132917	ENST00000394464.7	NR3C1	ENSG00000113580	nuclear receptor subfamily 3 group C member 1 Source HGNC Symbol Acc HGNC 7978
E11	UPFH0067008	ENST00000367357.3	NR5A2	ENSG00000116833	nuclear receptor subfamily 5 group A member 2 Source HGNC Symbol Acc HGNC 7984
E12	UPFH0106446	ENST00000637963.1	NRIP1	ENSG00000180530	nuclear receptor interacting protein 1 Source HGNC Symbol Acc HGNC 8001
F01	UPFH1132598	ENST00000395995.5	NRP1	ENSG00000099250	neuropilin 1 Source HGNC Symbol Acc HGNC 8004
F02	UPFH0186370	ENST00000451928.6	PDZK1	ENSG00000174827	PDZ domain containing 1 Source HGNC Symbol Acc HGNC 8821
F03	UPFH0270007	ENST00000570387.5	PELP1	ENSG00000141456	proline, glutamate and leucine rich protein 1 Source HGNC Symbol Acc HGNC 30134
F04	UPFH0586168	ENST00000617858.4	PGR	ENSG00000082175	progesterone receptor Source HGNC Symbol Acc HGNC 8910
F05	UPFH0341286	ENST00000543465.5	PHB2	ENSG00000215021	prohibitin 2 Source HGNC Symbol Acc HGNC 30306
F06	UPFH0155270	ENST00000331920.10	PTCH1	ENSG00000185920	patched 1 Source HGNC Symbol Acc HGNC 9585
F07	UPFH1132642	ENST00000367468.10	PTGS2	ENSG00000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F08	UPFH0227635	ENST00000436179.1	RALA	ENSG00000006451	RAS like proto-oncogene A Source HGNC Symbol Acc HGNC 9839
F09	UPFH0431278	ENST00000394081.7	RARA	ENSG00000131759	retinoic acid receptor alpha Source HGNC Symbol Acc HGNC 9864
F10	UPFH0516872	ENST00000462951.2	S100A6	ENSG00000197956	S100 calcium binding protein A6 Source HGNC Symbol Acc HGNC 10496

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0319240	ENST00000591666.5	SAFB	ENSG00000160633	scaffold attachment factor B Source HGNC Symbol Acc HGNC 10520
F12	UPFH1132841	ENST00000244050.3	SNAI1	ENSG00000124216	snail family transcriptional repressor 1 Source HGNC Symbol Acc HGNC 11128
G01	UPFH1132974	ENST00000330871.3	SOCS3	ENSG00000184557	suppressor of cytokine signaling 3 Source HGNC Symbol Acc HGNC 19391
G02	UPFH0044238	ENST00000237623.11	SPP1	ENSG00000118785	secreted phosphoprotein 1 Source HGNC Symbol Acc HGNC 11255
G03	UPFH0090465	ENST00000291527.3	TFF1	ENSG00000160182	trefoil factor 1 Source HGNC Symbol Acc HGNC 11755
G04	UPFH1132717	ENST00000295400.11	TGFA	ENSG00000163235	transforming growth factor alpha Source HGNC Symbol Acc HGNC 11765
G05	UPFH0000256	ENST00000238682.7	TGFB3	ENSG00000119699	transforming growth factor beta 3 Source HGNC Symbol Acc HGNC 11769
G06	UPFH1132847	ENST00000260356.5	THBS1	ENSG00000137801	thrombospondin 1 Source HGNC Symbol Acc HGNC 11785
G07	UPFH0608623	ENST00000550325.5	VDR	ENSG00000111424	vitamin D receptor Source HGNC Symbol Acc HGNC 12679
G08	UPFH0281656	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
G09	UPFH0007824	ENST00000497421.1	CCN5	ENSG00000064205	cellular communication network factor 5 Source HGNC Symbol Acc HGNC 12770
G10	UPFH1132763	ENST00000290167.11	WNT4	ENSG00000162552	Wnt family member 4 Source HGNC Symbol Acc HGNC 12783
G11	UPFH0355989	ENST00000264634.8	WNT5A	ENSG00000114251	Wnt family member 5A Source HGNC Symbol Acc HGNC 12784
G12	UPFH0306026	ENST00000611155.4	XBP1	ENSG00000100219	X-box binding protein 1 Source HGNC Symbol Acc HGNC 12801
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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