

QuantiNova® LNA® Probe PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Human Transcription Factors

Cat. no. 249955 UPHS-075ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	AR	ARNT	ATF1	ATF2	ATF3	ATF4	CEBPA	CEBPB	CEBPG	CREB1	CREBBP	CTNNB1
B	DR1	E2F1	E2F6	EGR1	ELK1	ESR1	ETS1	ETS2	FOS	FOXA2	FOXP1	FOXP1
C	GATA1	GATA2	GATA3	GTF2B	GTF2F1	HAND1	HAND2	HDAC1	HIF1A	HNF1A	HNF4A	HOXA5
D	HSF1	ID1	IRF1	JUN	JUNB	JUND	MAX	MEF2A	MEF2C	MYB	MYC	MYF5
E	MYOD1	NFAT5	NFATC1	NFATC2	NFATC3	NFATC4	NFKB1	NFYB	NR3C1	PAX6	POU2AF1	PPARA
F	PPARG	RB1	REL	RELA	RELB	SMAD1	SMAD4	SMAD5	SMAD9	SP1	SP3	STAT1
G	STAT2	STAT3	STAT4	STAT5A	STAT5B	STAT6	TBP	TCF7L2	TFAP2A	TGIF1	TP53	YY1
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	UPFH0268128	ENST00000374690.8	AR	ENSG00000169083	androgen receptor Source HGNC Symbol Acc HGNC 644
A02	UPFH1132241	ENST00000354396.6	ARNT	ENSG00000143437	aryl hydrocarbon receptor nuclear translocator Source HGNC Symbol Acc HGNC 700
A03	UPFH0059653	ENST00000551831.5	ATF1	ENSG00000123268	activating transcription factor 1 Source HGNC Symbol Acc HGNC 783
A04	UPFH1132243	ENST00000426833.7	ATF2	ENSG00000115966	activating transcription factor 2 Source HGNC Symbol Acc HGNC 784
A05	UPFH0133410	ENST00000366985.5	ATF3	ENSG00000162772	activating transcription factor 3 Source HGNC Symbol Acc HGNC 785
A06	UPFH1132244	ENST00000404241.6	ATF4	ENSG00000128272	activating transcription factor 4 Source HGNC Symbol Acc HGNC 786
A07	UPFH0223943	ENST00000498907.3	CEBPA	ENSG00000245848	CCAAT enhancer binding protein alpha Source HGNC Symbol Acc HGNC 1833
A08	UPFH0202295	ENST00000303004.4	CEBPB	ENSG00000172216	CCAAT enhancer binding protein beta Source HGNC Symbol Acc HGNC 1834
A09	UPFH0247239	ENST00000652630.1	CEBPG	ENSG00000153879	CCAAT enhancer binding protein gamma Source HGNC Symbol Acc HGNC 1837
A10	UPFH0199960	ENST00000480189.5	CREB1	ENSG00000118260	cAMP responsive element binding protein 1 Source HGNC Symbol Acc HGNC 2345
A11	UPFH0338543	ENST00000573517.6	CREBBP	ENSG00000005339	CREB binding protein Source HGNC Symbol Acc HGNC 2348
A12	UPFH0097734	ENST00000396183.7	CTNNB1	ENSG00000168036	catenin beta 1 Source HGNC Symbol Acc HGNC 2514
B01	UPFH0130736	ENST00000370267.1	DR1	ENSG00000117505	down-regulator of transcription 1 Source HGNC Symbol Acc HGNC 3017
B02	UPFH1132375	ENST00000343380.6	E2F1	ENSG00000101412	E2F transcription factor 1 Source HGNC Symbol Acc HGNC 3113
B03	UPFH0283924	ENST00000421117.1	E2F6	ENSG00000169016	E2F transcription factor 6 Source HGNC Symbol Acc HGNC 3120
B04	UPFH0558832	ENST00000239938.5	EGR1	ENSG00000120738	early growth response 1 Source HGNC Symbol Acc HGNC 3238
B05	UPFH0614738	ENST00000376983.8	ELK1	ENSG00000126767	ELK1, ETS transcription factor Source HGNC Symbol Acc HGNC 3321
B06	UPFH0599047	ENST00000206249.7	ESR1	ENSG00000091831	estrogen receptor 1 Source HGNC Symbol Acc HGNC 3467
B07	UPFH0570530	ENST00000392668.8	ETS1	ENSG00000134954	ETS proto-oncogene 1, transcription factor Source HGNC Symbol Acc HGNC 3488
B08	UPFH1132389	ENST00000360214.7	ETS2	ENSG00000157557	ETS proto-oncogene 2, transcription factor Source HGNC Symbol Acc HGNC 3489
B09	UPFH1132401	ENST00000555242.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
B10	UPFH0135307	ENST00000419308.6	FOXA2	ENSG00000125798	forkhead box A2 Source HGNC Symbol Acc HGNC 5022
B11	UPFH0039193	ENST00000637220.1	FOXG1	ENSG00000176165	forkhead box G1 Source HGNC Symbol Acc HGNC 3811
B12	UPFH0401417	ENST00000379561.6	FOXO1	ENSG00000150907	forkhead box O1 Source HGNC Symbol Acc HGNC 3819
C01	UPFH0379883	ENST00000651144.1	GATA1	ENSG00000102145	GATA binding protein 1 Source HGNC Symbol Acc HGNC 4170
C02	UPFH0034415	ENST00000430265.6	GATA2	ENSG00000179348	GATA binding protein 2 Source HGNC Symbol Acc HGNC 4171
C03	UPFH1132416	ENST00000645492.1	GATA3	ENSG00000107485	GATA binding protein 3 Source HGNC Symbol Acc HGNC 4172
C04	UPFH0574147	ENST00000370500.10	GTF2B	ENSG00000137947	general transcription factor IIB Source HGNC Symbol Acc HGNC 4648
C05	UPFH0550793	ENST00000394456.10	GTF2F1	ENSG00000125651	general transcription factor IIF subunit 1 Source HGNC Symbol Acc HGNC 4652
C06	UPFH0372159	ENST00000231121.3	HAND1	ENSG00000113196	heart and neural crest derivatives expressed 1 Source HGNC Symbol Acc HGNC 4807
C07	UPFH0347346	ENST00000621866.1	HAND2	ENSG00000164107	heart and neural crest derivatives expressed 2 Source HGNC Symbol Acc HGNC 4808
C08	UPFH1132434	ENST00000373548.8	HDAC1	ENSG00000116478	histone deacetylase 1 Source HGNC Symbol Acc HGNC 4852
C09	UPFH1132447	ENST00000394997.5	HIF1A	ENSG00000100644	hypoxia inducible factor 1 subunit alpha Source HGNC Symbol Acc HGNC 4910
C10	UPFH0335369	ENST00000400024.6	HNF1A	ENSG00000135100	HNF1 homeobox A Source HGNC Symbol Acc HGNC 11621
		ENST00000372		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0223088	920.1	HNF4A	101076	hepatocyte nuclear factor 4 alpha Source HGNC Symbol Acc HGNC 5024
C12	UPFH0079959	ENST00000222726.4	HOXA5	ENSG00000106004	homeobox A5 Source HGNC Symbol Acc HGNC 5106
D01	UPFH0041314	ENST00000528838.6	HSF1	ENSG00000185122	heat shock transcription factor 1 Source HGNC Symbol Acc HGNC 5224
D02	UPFH1132463	ENST00000376112.4	ID1	ENSG00000125968	inhibitor of DNA binding 1, HLH protein Source HGNC Symbol Acc HGNC 5360
D03	UPFH1132490	ENST00000476613.1	IRF1	ENSG00000125347	interferon regulatory factor 1 Source HGNC Symbol Acc HGNC 6116
D04	UPFH0569765	ENST00000371222.3	JUN	ENSG00000177606	Jun proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6204
D05	UPFH1132504	ENST00000302754.6	JUNB	ENSG00000171223	JunB proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6205
D06	UPFH0044624	ENST00000252818.4	JUND	ENSG00000130522	JunD proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6206
D07	UPFH0191124	ENST00000556443.5	MAX	ENSG00000125952	MYC associated factor X Source HGNC Symbol Acc HGNC 6913
D08	UPFH0601263	ENST00000354410.9	MEF2A	ENSG00000068305	myocyte enhancer factor 2A Source HGNC Symbol Acc HGNC 6993
D09	UPFH0170268	ENST00000424173.6	MEF2C	ENSG00000081189	myocyte enhancer factor 2C Source HGNC Symbol Acc HGNC 6996
D10	UPFH0414191	ENST00000528015.5	MYB	ENSG00000118513	MYB proto-oncogene, transcription factor Source HGNC Symbol Acc HGNC 7545
D11	UPFH1132563	ENST00000517291.1	MYC	ENSG00000136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
D12	UPFH0154332	ENST00000228644.4	MYF5	ENSG00000111049	myogenic factor 5 Source HGNC Symbol Acc HGNC 7565
E01	UPFH0179986	ENST00000250003.4	MYOD1	ENSG00000129152	myogenic differentiation 1 Source HGNC Symbol Acc HGNC 7611
E02	UPFH0317172	ENST00000354436.6	NFAT5	ENSG00000102908	nuclear factor of activated T cells 5 Source HGNC Symbol Acc HGNC 7774
E03	UPFH0595445	ENST00000591814.5	NFATC1	ENSG00000131196	nuclear factor of activated T cells 1 Source HGNC Symbol Acc HGNC 7775
E04	UPFH0101128	ENST00000610033.5	NFATC2	ENSG00000101096	nuclear factor of activated T cells 2 Source HGNC Symbol Acc HGNC 7776
E05	UPFH0123113	ENST00000562926.5	NFATC3	ENSG00000072736	nuclear factor of activated T cells 3 Source HGNC Symbol Acc HGNC 7777
E06	UPFH0189206	ENST00000553879.5	NFATC4	ENSG00000100968	nuclear factor of activated T cells 4 Source HGNC Symbol Acc HGNC 7778
E07	UPFH1132828	ENST00000226574.9	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E08	UPFH0383437	ENST00000240055.8	NFYB	ENSG00000120837	nuclear transcription factor Y subunit beta Source HGNC Symbol Acc HGNC 7805
E09	UPFH1132917	ENST00000394464.7	NR3C1	ENSG00000113580	nuclear receptor subfamily 3 group C member 1 Source HGNC Symbol Acc HGNC 7978
E10	UPFH0078275	ENST00000638685.1	PAX6	ENSG00000007372	paired box 6 Source HGNC Symbol Acc HGNC 8620
E11	UPFH0111631	ENST00000529065.1	POU2AF1	ENSG00000110777	POU class 2 associating factor 1 Source HGNC Symbol Acc HGNC 9211
E12	UPFH0327373	ENST00000262735.9	PPARA	ENSG00000186951	peroxisome proliferator activated receptor alpha Source HGNC Symbol Acc HGNC 9232
F01	UPFH0284890	ENST00000477039.5	PPARG	ENSG00000132170	peroxisome proliferator activated receptor gamma Source HGNC Symbol Acc HGNC 9236
F02	UPFH0001483	ENST00000267163.5	RB1	ENSG00000139687	RB transcriptional corepressor 1 Source HGNC Symbol Acc HGNC 9884
F03	UPFH0559135	ENST00000295025.12	REL	ENSG00000162924	REL proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9954
F04	UPFH1132884	ENST00000615805.4	RELA	ENSG00000173039	RELA proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9955
F05	UPFH0241038	ENST00000625761.2	RELB	ENSG00000104856	RELB proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9956
F06	UPFH1132685	ENST00000515385.1	SMAD1	ENSG00000170365	SMAD family member 1 Source HGNC Symbol Acc HGNC 6767
F07	UPFH0151428	ENST00000342988.7	SMAD4	ENSG00000141646	SMAD family member 4 Source HGNC Symbol Acc HGNC 6770
F08	UPFH1132687	ENST00000509297.6	SMAD5	ENSG00000113658	SMAD family member 5 Source HGNC Symbol Acc HGNC 6771
F09	UPFH0026875	ENST00000379826.4	SMAD9	ENSG00000120693	SMAD family member 9 Source HGNC Symbol Acc HGNC 6774
F10	UPFH1132843	ENST00000327443.9	SP1	ENSG00000185591	Sp1 transcription factor Source HGNC Symbol Acc HGNC 11205

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0045054	ENST00000418194.6	SP3	ENSG00000172845	Sp3 transcription factor Source HGNC Symbol Acc HGNC 11208
F12	UPFH1132696	ENST00000392323.6	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G01	UPFH0338707	ENST00000652741.1	STAT2	ENSG00000170581	signal transducer and activator of transcription 2 Source HGNC Symbol Acc HGNC 11363
G02	UPFH0531262	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G03	UPFH1132697	ENST00000392320.7	STAT4	ENSG00000138378	signal transducer and activator of transcription 4 Source HGNC Symbol Acc HGNC 11365
G04	UPFH0458805	ENST00000591556.1	STAT5A	ENSG00000126561	signal transducer and activator of transcription 5A Source HGNC Symbol Acc HGNC 11366
G05	UPFH0498337	ENST00000415845.1	STAT5B	ENSG00000173757	signal transducer and activator of transcription 5B Source HGNC Symbol Acc HGNC 11367
G06	UPFH1132845	ENST00000553533.2	STAT6	ENSG00000166888	signal transducer and activator of transcription 6 Source HGNC Symbol Acc HGNC 11368
G07	UPFH0594391	ENST00000421512.5	TBP	ENSG00000112592	TATA-box binding protein Source HGNC Symbol Acc HGNC 11588
G08	UPFH0509582	ENST00000636585.1	TCF7L2	ENSG00000148737	transcription factor 7 like 2 Source HGNC Symbol Acc HGNC 11641
G09	UPFH0483123	ENST00000498450.2	TFAP2A	ENSG00000137203	transcription factor AP-2 alpha Source HGNC Symbol Acc HGNC 11742
G10	UPFH1132722	ENST00000407501.6	TGIF1	ENSG00000177426	TGFB induced factor homeobox 1 Source HGNC Symbol Acc HGNC 11776
G11	UPFH0565795	ENST00000269305.8	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G12	UPFH0134182	ENST00000553625.5	YY1	ENSG00000100811	YY1 transcription factor Source HGNC Symbol Acc HGNC 12856
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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