

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

## Human Glucocorticoid Signaling

Cat. no. 249955 UPHS-154ZA

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	ADARB1	AFF1	AK2	AMPD3	ANGPTL4	ANXA4	AQP1	ARID5B	ASPH	ATF4	BCL6	BMPER
B	CALCR	CEBPA	CEBPB	COL4A2	CREB1	CREB3	CREB3L4	CCN2	CYB561	DDIT4	DIRAS2	DUSP1
C	EDN1	EHD3	ERRFI1	FKBP5	FOSL2	GDPD1	GHRHR	GLUL	GOT1	H6PD	HAS2	HNRNPLL
D	IL10	IL1RN	IL6	IL6R	KLF13	KLF9	LOX	MERTK	MT1E	MT2A	NFKBIA	NR3C1
E	PDCD7	PDGFRB	PDP1	PER1	PER2	PIK3R1	PLD1	PLEKHF1	POU2F1	POU2F2	RASA3	RGS2
F	RHOB	RHOJ	SESN1	SGK1	SLC10A6	SLC19A2	SLC22A5	SNTA1	SPHK1	SPSB1	STAT5A	STAT5B
G	TBL1XR1	TNF	TNFAIP3	TSC22D3	USP2	USP54	VDR	VLDLR	XDH	ZFP36	ZHX3	ZNF281
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	UPFH0207480	ENST00000629643.2	ADARB1	ENSG00000197381	adenosine deaminase, RNA specific B1 Source HGNC Symbol Acc HGNC 226
A02	UPFH0227330	ENST00000307808.10	AFF1	ENSG00000172493	AF4/FMR2 family member 1 Source HGNC Symbol Acc HGNC 7135
A03	UPFH0437574	ENST00000466029.1	AK2	ENSG00000004455	adenylate kinase 2 Source HGNC Symbol Acc HGNC 362
A04	UPFH0126232	ENST00000530864.1	AMPD3	ENSG00000133805	adenosine monophosphate deaminase 3 Source HGNC Symbol Acc HGNC 470
A05	UPFH1132232	ENST00000301455.7	ANGPTL4	ENSG00000167772	angiopoietin like 4 Source HGNC Symbol Acc HGNC 16039
A06	UPFH0572148	ENST00000484219.1	ANXA4	ENSG00000196975	annexin A4 Source HGNC Symbol Acc HGNC 542
A07	UPFH1132239	ENST00000311813.10	AQP1	ENSG00000240583	aquaporin 1 (Colton blood group) Source HGNC Symbol Acc HGNC 633
A08	UPFH0035991	ENST00000644638.1	ARID5B	ENSG00000150347	AT-rich interaction domain 5B Source HGNC Symbol Acc HGNC 17362
A09	UPFH0239334	ENST00000519678.5	ASPH	ENSG00000198363	aspartate beta-hydroxylase Source HGNC Symbol Acc HGNC 757
A10	UPFH1132244	ENST00000404241.6	ATF4	ENSG00000128272	activating transcription factor 4 Source HGNC Symbol Acc HGNC 786
A11	UPFH1132778	ENST00000450123.6	BCL6	ENSG00000113916	BCL6, transcription repressor Source HGNC Symbol Acc HGNC 1001
A12	UPFH1132276	ENST00000648392.1	BMPER	ENSG00000164619	BMP binding endothelial regulator Source HGNC Symbol Acc HGNC 24154
B01	UPFH0236099	ENST00000415529.2	CALCR	ENSG00000004948	calcitonin receptor Source HGNC Symbol Acc HGNC 1440
B02	UPFH0223943	ENST00000498907.3	CEBPA	ENSG00000245848	CCAAT enhancer binding protein alpha Source HGNC Symbol Acc HGNC 1833
B03	UPFH0202295	ENST00000303004.4	CEBPB	ENSG00000172216	CCAAT enhancer binding protein beta Source HGNC Symbol Acc HGNC 1834
B04	UPFH0055505	ENST00000360467.6	COL4A2	ENSG00000134871	collagen type IV alpha 2 chain Source HGNC Symbol Acc HGNC 2203
B05	UPFH0199960	ENST00000480189.5	CREB1	ENSG00000118260	cAMP responsive element binding protein 1 Source HGNC Symbol Acc HGNC 2345
B06	UPFH0611876	ENST00000486056.1	CREB3	ENSG00000107175	cAMP responsive element binding protein 3 Source HGNC Symbol Acc HGNC 2347
B07	UPFH0583954	ENST00000271889.8	CREB3L4	ENSG00000143578	cAMP responsive element binding protein 3 like 4 Source HGNC Symbol Acc HGNC 18854
B08	UPFH1132340	ENST00000367976.4	CCN2	ENSG00000118523	cellular communication network factor 2 Source HGNC Symbol Acc HGNC 2500
B09	UPFH0080336	ENST00000578016.1	CYB561	ENSG00000008283	cytochrome b561 Source HGNC Symbol Acc HGNC 2571
B10	UPFH0269420	ENST00000307365.4	DDIT4	ENSG00000168209	DNA damage inducible transcript 4 Source HGNC Symbol Acc HGNC 24944
B11	UPFH0178444	ENST00000375765.5	DIRAS2	ENSG00000165023	DIRAS family GTPase 2 Source HGNC Symbol Acc HGNC 19323
B12	UPFH1132372	ENST00000239223.4	DUSP1	ENSG00000120129	dual specificity phosphatase 1 Source HGNC Symbol Acc HGNC 3064
C01	UPFH1132801	ENST00000379375.6	EDN1	ENSG00000078401	endothelin 1 Source HGNC Symbol Acc HGNC 3176
C02	UPFH0154140	ENST00000322054.10	EHD3	ENSG000000103016	EH domain containing 3 Source HGNC Symbol Acc HGNC 3244
C03	UPFH0156020	ENST00000469499.5	ERRF1	ENSG00000116285	ERBB receptor feedback inhibitor 1 Source HGNC Symbol Acc HGNC 18185
C04	UPFH0019121	ENST00000539068.5	FKBP5	ENSG00000096060	FKBP prolyl isomerase 5 Source HGNC Symbol Acc HGNC 3721
C05	UPFH0146375	ENST00000436647.1	FOSL2	ENSG00000075426	FOS like 2, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3798
C06	UPFH0472406	ENST00000579020.5	GDPD1	ENSG00000153982	glycerophosphodiester phosphodiesterase domain containing 1 Source HGNC Symbol Acc HGNC 20883
C07	UPFH0123663	ENST00000409316.5	GHRHR	ENSG00000106128	growth hormone releasing hormone receptor Source HGNC Symbol Acc HGNC 4266
C08	UPFH0149415	ENST00000462444.1	GLUL	ENSG00000135821	glutamate-ammonia ligase Source HGNC Symbol Acc HGNC 4341
C09	UPFH0515786	ENST00000471741.1	GOT1	ENSG00000120053	glutamic-oxaloacetic transaminase 1 Source HGNC Symbol Acc HGNC 4432
C10	UPFH1132909	ENST00000377403.6	H6PD	ENSG00000049239	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase Source HGNC Symbol Acc HGNC 4795
		ENST00000303		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0353296	924.5	HAS2	170961	hyaluronan synthase 2 Source HGNC Symbol Acc HGNC 4819
C12	UPFH0322551	ENST00000425682.1	HNRNPLL	ENSG00000143889	heterogeneous nuclear ribonucleoprotein L like Source HGNC Symbol Acc HGNC 25127
D01	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D02	UPFH0081459	ENST00000354115.6	IL1RN	ENSG00000136689	interleukin 1 receptor antagonist Source HGNC Symbol Acc HGNC 6000
D03	UPFH1172910	ENST00000258743.10	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D04	UPFH1132484	ENST00000622330.4	IL6R	ENSG00000160712	interleukin 6 receptor Source HGNC Symbol Acc HGNC 6019
D05	UPFH0345507	ENST00000560473.1	KLF13	ENSG00000169926	Kruppel like factor 13 Source HGNC Symbol Acc HGNC 13672
D06	UPFH0131977	ENST00000377126.3	KLF9	ENSG00000119138	Kruppel like factor 9 Source HGNC Symbol Acc HGNC 1123
D07	UPFH1132522	ENST00000231004.5	LOX	ENSG00000113083	lysyl oxidase Source HGNC Symbol Acc HGNC 6664
D08	UPFH0056872	ENST00000295408.8	MERTK	ENSG00000153208	MER proto-oncogene, tyrosine kinase Source HGNC Symbol Acc HGNC 7027
D09	UPFH0032891	ENST00000330439.6	MT1E	ENSG00000169715	metallothionein 1E Source HGNC Symbol Acc HGNC 7397
D10	UPFH0049572	ENST00000245185.6	MT2A	ENSG00000125148	metallothionein 2A Source HGNC Symbol Acc HGNC 7406
D11	UPFH0444462	ENST00000216797.9	NFKBIA	ENSG00000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
D12	UPFH1132917	ENST00000394464.7	NR3C1	ENSG00000113580	nuclear receptor subfamily 3 group C member 1 Source HGNC Symbol Acc HGNC 7978
E01	UPFH0328158	ENST00000204549.9	PCD7	ENSG00000090470	programmed cell death 7 Source HGNC Symbol Acc HGNC 8767
E02	UPFH1132610	ENST00000261799.9	PDGFRB	ENSG00000113721	platelet derived growth factor receptor beta Source HGNC Symbol Acc HGNC 8804
E03	UPFH0407084	ENST00000396200.3	PDP1	ENSG00000164951	pyruvate dehydrogenase phosphatase catalytic subunit 1 Source HGNC Symbol Acc HGNC 9279
E04	UPFH0100494	ENST00000581395.5	PER1	ENSG00000179094	period circadian regulator 1 Source NCBI gene Acc 5187
E05	UPFH0006664	ENST00000355768.6	PER2	ENSG00000132326	period circadian regulator 2 Source HGNC Symbol Acc HGNC 8846
E06	UPFH0549122	ENST00000521381.6	PIK3R1	ENSG00000145675	phosphoinositide-3-kinase regulatory subunit 1 Source HGNC Symbol Acc HGNC 8979
E07	UPFH0135916	ENST00000446289.1	PLD1	ENSG00000075651	phospholipase D1 Source HGNC Symbol Acc HGNC 9067
E08	UPFH0264686	ENST00000436066.4	PLEKHF1	ENSG00000166289	pleckstrin homology and FYVE domain containing 1 Source HGNC Symbol Acc HGNC 20764
E09	UPFH0286995	ENST00000557909.5	POU2F1	ENSG00000143190	POU class 2 homeobox 1 Source HGNC Symbol Acc HGNC 9212
E10	UPFH0005408	ENST00000625670.2	POU2F2	ENSG00000028277	POU class 2 homeobox 2 Source HGNC Symbol Acc HGNC 9213
E11	UPFH0190567	ENST00000334062.8	RASA3	ENSG00000185989	RAS p21 protein activator 3 Source HGNC Symbol Acc HGNC 20331
E12	UPFH1132656	ENST00000235382.7	RGS2	ENSG00000116741	regulator of G protein signaling 2 Source HGNC Symbol Acc HGNC 9998
F01	UPFH0026449	ENST00000272233.5	RHOB	ENSG00000143878	ras homolog family member B Source HGNC Symbol Acc HGNC 668
F02	UPFH0452136	ENST00000555125.1	RHOJ	ENSG00000126785	ras homolog family member J Source HGNC Symbol Acc HGNC 688
F03	UPFH0256554	ENST00000356644.7	SESN1	ENSG00000080546	sestrin 1 Source HGNC Symbol Acc HGNC 21595
F04	UPFH0010225	ENST00000367855.7	SGK1	ENSG00000118515	serum/glucocorticoid regulated kinase 1 Source HGNC Symbol Acc HGNC 10810
F05	UPFH0602889	ENST00000505535.1	SLC10A6	ENSG00000145283	solute carrier family 10 member 6 Source HGNC Symbol Acc HGNC 30603
F06	UPFH0180198	ENST00000643377.1	SLC19A2	ENSG00000117479	solute carrier family 19 member 2 Source HGNC Symbol Acc HGNC 10938
F07	UPFH0190204	ENST00000447841.5	SLC22A5	ENSG00000197375	solute carrier family 22 member 5 Source HGNC Symbol Acc HGNC 10969
F08	UPFH0506144	ENST00000217381.2	SNTA1	ENSG00000101400	syntrophin alpha 1 Source HGNC Symbol Acc HGNC 11167
F09	UPFH0560569	ENST00000590959.5	SPHK1	ENSG00000176170	sphingosine kinase 1 Source NCBI gene Acc 8877
F10	UPFH0245574	ENST00000328089.11	SPSB1	ENSG00000171621	splA/ryanodine receptor domain and SOCS box containing 1 Source HGNC Symbol Acc HGNC 30628

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0458805	ENST00000591556.1	STAT5A	ENSG00000126561	signal transducer and activator of transcription 5A Source HGNC Symbol Acc HGNC 11366
F12	UPFH0498337	ENST00000415845.1	STAT5B	ENSG00000173757	signal transducer and activator of transcription 5B Source HGNC Symbol Acc HGNC 11367
G01	UPFH0158791	ENST00000637659.1	TBL1XR1	ENSG00000177565	transducin beta like 1 X-linked receptor 1 Source HGNC Symbol Acc HGNC 29529
G02	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G03	UPFH0576817	ENST00000485192.1	TNFAIP3	ENSG00000118503	TNF alpha induced protein 3 Source HGNC Symbol Acc HGNC 11896
G04	UPFH0607629	ENST00000372390.8	TSC22D3	ENSG00000157514	TSC22 domain family member 3 Source HGNC Symbol Acc HGNC 3051
G05	UPFH0450715	ENST00000525735.1	USP2	ENSG00000036672	ubiquitin specific peptidase 2 Source HGNC Symbol Acc HGNC 12618
G06	UPFH0397596	ENST00000422491.6	USP54	ENSG00000166348	ubiquitin specific peptidase 54 Source HGNC Symbol Acc HGNC 23513
G07	UPFH0608623	ENST00000550325.5	VDR	ENSG00000111424	vitamin D receptor Source HGNC Symbol Acc HGNC 12679
G08	UPFH0244470	ENST00000478776.1	VLDLR	ENSG00000147852	very low density lipoprotein receptor Source HGNC Symbol Acc HGNC 12698
G09	UPFH0207114	ENST00000379416.4	XDH	ENSG00000158125	xanthine dehydrogenase Source HGNC Symbol Acc HGNC 12805
G10	UPFH0570907	ENST00000597629.2	ZFP36	ENSG00000128016	ZFP36 ring finger protein Source NCBI gene Acc 7538
G11	UPFH0290249	ENST00000432768.6	ZHX3	ENSG00000174306	zinc fingers and homeoboxes 3 Source HGNC Symbol Acc HGNC 15935
G12	UPFH0500978	ENST00000294740.3	ZNF281	ENSG00000162702	zinc finger protein 281 Source HGNC Symbol Acc HGNC 13075
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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 $\mu$ l QuantiNova Probe RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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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