

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

Human Notch Signaling Pathway

Cat. no. 249955 UPHS-059ZR

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	ADAM10	ADAM17	AES	AXIN1	CBL	CCND1	CCNE1	CD44	CDKN1A	CFLAR	CHUK	CTNNB1
B	DLL1	DLL3	DLL4	DTX1	EP300	ERBB2	VEGFD	FOS	FOSL1	FZD2	FZD3	FZD4
C	FZD7	GLI1	GSK3B	HDAC1	HES1	HES5	HEY1	HEY2	HEYL	HOXB4	HR	ID1
D	IFNG	IL17B	IL2RA	JAG1	JAG2	KRT1	LFNG	LMO2	LOR	LRP5	MAML1	MAML2
E	MFNG	MMP7	NCOR2	NCSTN	NEURL1	NFKB1	NFKB2	NOTCH1	NOTCH2	NOTCH2NLA	NOTCH3	NOTCH4
F	NR4A2	NUMB	PAX5	POFUT1	PPARG	PSEN1	PSEN2	PSENEN	PTCRA	RBPJL	RFNG	RUNX1
G	SEL1L	SH2D1A	SHH	SMO	SNW1	STAT6	STIL	SUFU	TLE1	CCN4	WNT11	ZIC2
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	UPFH0535211	ENST00000481164.1	ADAM10	ENSG00000137845	ADAM metallopeptidase domain 10 Source HGNC Symbol Acc HGNC 188
A02	UPFH1132216	ENST00000497134.6	ADAM17	ENSG00000151694	ADAM metallopeptidase domain 17 Source HGNC Symbol Acc HGNC 195
A03	UPFH0305322	ENST00000327141.8	AES	ENSG00000104964	amino-terminal enhancer of split Source HGNC Symbol Acc HGNC 307
A04	UPFH1132262	ENST00000262320.8	AXIN1	ENSG00000103126	axin 1 Source HGNC Symbol Acc HGNC 903
A05	UPFH0561363	ENST00000634840.1	CBL	ENSG00000110395	Cbl proto-oncogene Source HGNC Symbol Acc HGNC 1541
A06	UPFH0430337	ENST00000227507.2	CCND1	ENSG00000110092	cyclin D1 Source HGNC Symbol Acc HGNC 1582
A07	UPFH1132297	ENST00000444983.6	CCNE1	ENSG00000105173	cyclin E1 Source HGNC Symbol Acc HGNC 1589
A08	UPFH0253499	ENST00000428726.7	CD44	ENSG00000026508	CD44 molecule (Indian blood group) Source HGNC Symbol Acc HGNC 1681
A09	UPFH0312181	ENST00000244741.9	CDKN1A	ENSG00000124762	cyclin dependent kinase inhibitor 1A Source HGNC Symbol Acc HGNC 1784
A10	UPFH1132312	ENST00000479953.6	CFLAR	ENSG00000003402	CASP8 and FADD like apoptosis regulator Source HGNC Symbol Acc HGNC 1876
A11	UPFH1132316	ENST00000370397.8	CHUK	ENSG000000213341	conserved helix-loop-helix ubiquitous kinase Source HGNC Symbol Acc HGNC 1974
A12	UPFH0097734	ENST00000396183.7	CTNNB1	ENSG00000168036	catenin beta 1 Source HGNC Symbol Acc HGNC 2514
B01	UPFH0541475	ENST00000630500.1	DLL1	ENSG00000198719	delta like canonical Notch ligand 1 Source HGNC Symbol Acc HGNC 2908
B02	UPFH0547690	ENST00000205143.4	DLL3	ENSG00000090932	delta like canonical Notch ligand 3 Source NCBI gene Acc 10683
B03	UPFH0526209	ENST00000249749.7	DLL4	ENSG00000128917	delta like canonical Notch ligand 4 Source HGNC Symbol Acc HGNC 2910
B04	UPFH0305831	ENST00000547974.5	DTX1	ENSG00000135144	deltex E3 ubiquitin ligase 1 Source HGNC Symbol Acc HGNC 3060
B05	UPFH0118049	ENST00000635691.1	EP300	ENSG00000100393	E1A binding protein p300 Source HGNC Symbol Acc HGNC 3373
B06	UPFH1132388	ENST00000541774.5	ERBB2	ENSG00000141736	erb-b2 receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 3430
B07	UPFH1132399	ENST00000297904.4	VEGFD	ENSG00000165197	vascular endothelial growth factor D Source HGNC Symbol Acc HGNC 3708
B08	UPFH1132401	ENST00000555242.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
B09	UPFH0457684	ENST00000312562.6	FOSL1	ENSG00000175592	FOS like 1, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 13718
B10	UPFH0607599	ENST00000315323.4	FZD2	ENSG00000180340	frizzled class receptor 2 Source HGNC Symbol Acc HGNC 4040
B11	UPFH1132405	ENST00000537916.2	FZD3	ENSG00000104290	frizzled class receptor 3 Source HGNC Symbol Acc HGNC 4041
B12	UPFH1132406	ENST00000531380.2	FZD4	ENSG00000174804	frizzled class receptor 4 Source HGNC Symbol Acc HGNC 4042
C01	UPFH0485950	ENST00000286201.2	FZD7	ENSG00000155760	frizzled class receptor 7 Source HGNC Symbol Acc HGNC 4045
C02	UPFH0266526	ENST00000546141.5	GLI1	ENSG00000111087	GLI family zinc finger 1 Source HGNC Symbol Acc HGNC 4317
C03	UPFH0470775	ENST00000316626.5	GSK3B	ENSG00000082701	glycogen synthase kinase 3 beta Source HGNC Symbol Acc HGNC 4617
C04	UPFH1132434	ENST00000373548.8	HDAC1	ENSG00000116478	histone deacetylase 1 Source HGNC Symbol Acc HGNC 4852
C05	UPFH1132442	ENST00000232424.4	HES1	ENSG00000114315	hes family bHLH transcription factor 1 Source HGNC Symbol Acc HGNC 5192
C06	UPFH1132443	ENST00000378453.4	HES5	ENSG00000197921	hes family bHLH transcription factor 5 Source HGNC Symbol Acc HGNC 19764
C07	UPFH1132444	ENST00000354724.8	HEY1	ENSG00000164683	hes related family bHLH transcription factor with YRPW motif 1 Source HGNC Symbol Acc HGNC 4880
C08	UPFH0601318	ENST00000368364.4	HEY2	ENSG00000135547	hes related family bHLH transcription factor with YRPW motif 2 Source HGNC Symbol Acc HGNC 4881
C09	UPFH1132445	ENST00000372852.4	HEYL	ENSG00000163909	hes related family bHLH transcription factor with YRPW motif-like Source HGNC Symbol Acc HGNC 4882
C10	UPFH0524754	ENST00000332503.6	HOXB4	ENSG00000182742	homeobox B4 Source HGNC Symbol Acc HGNC 5115
		ENST00000517		ENSG000000	HR, lysine demethylase and nuclear receptor corepressor Source HGNC Symbol

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0558727	699.2	HR	168453	Acc HGNC 5172
C12	UPFH1132463	ENST00000376112.4	ID1	ENSG00000125968	inhibitor of DNA binding 1, HLH protein Source HGNC Symbol Acc HGNC 5360
D01	UPFH1132473	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D02	UPFH0290181	ENST00000261796.4	IL17B	ENSG00000127743	interleukin 17B Source HGNC Symbol Acc HGNC 5982
D03	UPFH0323649	ENST00000447847.1	IL2RA	ENSG00000134460	interleukin 2 receptor subunit alpha Source HGNC Symbol Acc HGNC 6008
D04	UPFH0500277	ENST00000254958.10	JAG1	ENSG00000101384	jagged 1 Source HGNC Symbol Acc HGNC 6188
D05	UPFH0057830	ENST00000553051.1	JAG2	ENSG00000184916	jagged 2 Source HGNC Symbol Acc HGNC 6189
D06	UPFH0560139	ENST00000252244.3	KRT1	ENSG00000167768	keratin 1 Source HGNC Symbol Acc HGNC 6412
D07	UPFH1132520	ENST00000222725.10	LFNG	ENSG00000106003	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase Source HGNC Symbol Acc HGNC 6560
D08	UPFH0607748	ENST00000257818.3	LMO2	ENSG00000135363	LIM domain only 2 Source HGNC Symbol Acc HGNC 6642
D09	UPFH0076499	ENST00000368742.4	LOR	ENSG00000203782	loricrin Source HGNC Symbol Acc HGNC 6663
D10	UPFH1132877	ENST00000294304.12	LRP5	ENSG00000162337	LDL receptor related protein 5 Source HGNC Symbol Acc HGNC 6697
D11	UPFH0071259	ENST00000507385.1	MAML1	ENSG00000161021	mastermind like transcriptional coactivator 1 Source HGNC Symbol Acc HGNC 13632
D12	UPFH0084275	ENST00000618849.1	MAML2	ENSG00000184384	mastermind like transcriptional coactivator 2 Source HGNC Symbol Acc HGNC 16259
E01	UPFH0327244	ENST00000438891.5	MFNG	ENSG00000100060	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase Source HGNC Symbol Acc HGNC 7038
E02	UPFH0230006	ENST00000260227.5	MMP7	ENSG00000137673	matrix metalloproteinase 7 Source HGNC Symbol Acc HGNC 7174
E03	UPFH0442832	ENST00000443451.6	NCOR2	ENSG00000196498	nuclear receptor corepressor 2 Source HGNC Symbol Acc HGNC 7673
E04	UPFH0059250	ENST00000421914.5	NCSTN	ENSG00000162736	nicastrin Source HGNC Symbol Acc HGNC 17091
E05	UPFH0044808	ENST00000455386.1	NEURL1	ENSG00000107954	neuralized E3 ubiquitin protein ligase 1 Source HGNC Symbol Acc HGNC 7761
E06	UPFH1132828	ENST00000226574.9	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E07	UPFH1132591	ENST00000652277.1	NFKB2	ENSG00000077150	nuclear factor kappa B subunit 2 Source HGNC Symbol Acc HGNC 7795
E08	UPFH0543837	ENST00000277541.7	NOTCH1	ENSG00000148400	notch 1 Source HGNC Symbol Acc HGNC 7881
E09	UPFH0591047	ENST00000640021.1	NOTCH2	ENSG00000134250	notch 2 Source HGNC Symbol Acc HGNC 7882
E10	UPFH0535752	ENST00000362074.7	NOTCH2NLA	ENSG00000264343	notch 2 N-terminal like A Source HGNC Symbol Acc HGNC 31862
E11	UPFH0053070	ENST00000597756.1	NOTCH3	ENSG00000074181	notch 3 Source HGNC Symbol Acc HGNC 7883
E12	UPFH1132594	ENST00000375023.3	NOTCH4	ENSG00000204301	notch 4 Source HGNC Symbol Acc HGNC 7884
F01	UPFH0459066	ENST00000406048.2	NR4A2	ENSG00000153234	nuclear receptor subfamily 4 group A member 2 Source HGNC Symbol Acc HGNC 7981
F02	UPFH0067916	ENST00000555238.5	NUMB	ENSG00000133961	NUMB, endocytic adaptor protein Source HGNC Symbol Acc HGNC 8060
F03	UPFH0136572	ENST00000522003.5	PAX5	ENSG00000196092	paired box 5 Source HGNC Symbol Acc HGNC 8619
F04	UPFH0531763	ENST00000375730.3	POFUT1	ENSG00000101346	protein O-fucosyltransferase 1 Source HGNC Symbol Acc HGNC 14988
F05	UPFH0284890	ENST00000477039.5	PPARG	ENSG00000132170	peroxisome proliferator activated receptor gamma Source HGNC Symbol Acc HGNC 9236
F06	UPFH0382093	ENST00000555254.5	PSEN1	ENSG00000080815	presenilin 1 Source HGNC Symbol Acc HGNC 9508
F07	UPFH0159620	ENST00000460775.5	PSEN2	ENSG00000143801	presenilin 2 Source HGNC Symbol Acc HGNC 9509
F08	UPFH0240222	ENST0000022266.2	PSENEN	ENSG00000205155	presenilin enhancer, gamma-secretase subunit Source HGNC Symbol Acc HGNC 30100
F09	UPFH0460381	ENST00000441198.4	PTCRA	ENSG00000171611	pre T cell antigen receptor alpha Source HGNC Symbol Acc HGNC 21290
F10	UPFH0445760	ENST00000464504.2	RBPJL	ENSG00000124232	recombination signal binding protein for immunoglobulin kappa J region like Source HGNC Symbol Acc HGNC 13761

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0279399	ENST00000584838.5	RFNG	ENSG00000169733	RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase Source HGNC Symbol Acc HGNC 9974
F12	UPFH0023287	ENST00000437180.5	RUNX1	ENSG00000159216	runt related transcription factor 1 Source HGNC Symbol Acc HGNC 10471
G01	UPFH0592774	ENST00000555824.5	SEL1L	ENSG00000071537	SEL1L, ERAD E3 ligase adaptor subunit Source HGNC Symbol Acc HGNC 10717
G02	UPFH0386648	ENST00000360027.4	SH2D1A	ENSG00000183918	SH2 domain containing 1A Source HGNC Symbol Acc HGNC 10820
G03	UPFH0252724	ENST00000430104.5	SHH	ENSG00000164690	sonic hedgehog signaling molecule Source HGNC Symbol Acc HGNC 10848
G04	UPFH0104215	ENST00000462420.2	SMO	ENSG00000128602	smoothened, frizzled class receptor Source HGNC Symbol Acc HGNC 11119
G05	UPFH0392443	ENST00000553565.1	SNW1	ENSG00000100603	SNW domain containing 1 Source HGNC Symbol Acc HGNC 16696
G06	UPFH1132845	ENST00000553533.2	STAT6	ENSG00000166888	signal transducer and activator of transcription 6 Source HGNC Symbol Acc HGNC 11368
G07	UPFH0531949	ENST00000447475.6	STIL	ENSG00000123473	STIL, centriolar assembly protein Source HGNC Symbol Acc HGNC 10879
G08	UPFH0106393	ENST00000471000.1	SUFU	ENSG00000107882	SUFU negative regulator of hedgehog signaling Source HGNC Symbol Acc HGNC 16466
G09	UPFH1132727	ENST00000376499.8	TLE1	ENSG00000196781	TLE family member 1, transcriptional corepressor Source HGNC Symbol Acc HGNC 11837
G10	UPFH0155085	ENST00000220856.6	CCN4	ENSG00000104415	cellular communication network factor 4 Source HGNC Symbol Acc HGNC 12769
G11	UPFH1132929	ENST00000322563.8	WNT11	ENSG00000085741	Wnt family member 11 Source HGNC Symbol Acc HGNC 12776
G12	UPFH0512161	ENST00000376335.8	ZIC2	ENSG00000043355	Zic family member 2 Source HGNC Symbol Acc HGNC 12873
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 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.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.