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

Human Hippo Signaling Pathway

Cat. no. 249955 UPHS-172ZR

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	ACTG1	AMOT	AMOTL1	AMOTL2	CASP3	CCNE1	CCNE2	CRB1	CRB2	CRB3	CSNK1D	CSNK1E
B	DCHS1	DCHS2	DIAPH2	DLG1	DVL2	FAT1	FAT2	FAT3	FAT4	FJX1	GPC5	HIPK2
C	HMCN1	AJUBA	LATS1	LATS2	LIMD1	LIX1L	LLGL1	LLGL2	LPP	MAPK10	MEIS1	MOB1B
D	MOB1A	MPDZ	MPP5	MST1	MYC	NF2	NPHP4	PARD3	PARD6G	POTEF	PPP2CB	PPP2R1A
E	PPP2R2D	PRKCI	PRKCZ	PTPN14	RASSF2	RASSF4	RERE	SAV1	SCRIB	SMAD1	STK3	STK4
F	TAOK1	TAOK2	TAOK3	TAZ	TEAD1	TEAD2	TEAD3	TEAD4	TJP1	TJP2	TP63	TSHZ1
G	TSHZ2	TSHZ3	WNT1	WTIP	WWC1	WWTR1	YAP1	YWHAB	YWHAE	YWHAQ	YWHAZ	ZDHHC18
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	UPFH0616633	ENST00000575994.5	ACTG1	ENSG00000184009	actin gamma 1 Source HGNC Symbol Acc HGNC 144
A02	UPFH0558065	ENST00000371958.1	AMOT	ENSG00000126016	angiomotin Source HGNC Symbol Acc HGNC 17810
A03	UPFH0122054	ENST00000317829.12	AMOTL1	ENSG00000166025	angiomotin like 1 Source HGNC Symbol Acc HGNC 17811
A04	UPFH0524760	ENST00000249883.9	AMOTL2	ENSG00000114019	angiomotin like 2 Source HGNC Symbol Acc HGNC 17812
A05	UPFH1132892	ENST00000523916.5	CASP3	ENSG00000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
A06	UPFH1132297	ENST00000444983.6	CCNE1	ENSG00000105173	cyclin E1 Source HGNC Symbol Acc HGNC 1589
A07	UPFH0612848	ENST00000520509.5	CCNE2	ENSG00000175305	cyclin E2 Source HGNC Symbol Acc HGNC 1590
A08	UPFH0596843	ENST00000367400.8	CRB1	ENSG00000134376	crumbs cell polarity complex component 1 Source HGNC Symbol Acc HGNC 2343
A09	UPFH0302252	ENST00000373631.8	CRB2	ENSG00000148204	crumbs cell polarity complex component 2 Source HGNC Symbol Acc HGNC 18688
A10	UPFH0191683	ENST00000598494.5	CRB3	ENSG00000130545	crumbs cell polarity complex component 3 Source HGNC Symbol Acc HGNC 20237
A11	UPFH1125358	ENST00000580446.1	CSNK1D	ENSG00000141551	casein kinase 1 delta Source HGNC Symbol Acc HGNC 2452
A12	UPFH0538939	ENST00000396832.6	CSNK1E	ENSG00000213923	casein kinase 1 epsilon Source HGNC Symbol Acc HGNC 2453
B01	UPFH0476139	ENST00000299441.5	DCHS1	ENSG00000166341	dachsous cadherin-related 1 Source HGNC Symbol Acc HGNC 13681
B02	UPFH0443491	ENST00000339452.2	DCHS2	ENSG00000197410	dachsous cadherin-related 2 Source HGNC Symbol Acc HGNC 23111
B03	UPFH0435833	ENST00000324765.13	DIAPH2	ENSG00000147202	diaphanous related formin 2 Source HGNC Symbol Acc HGNC 2877
B04	UPFH0568237	ENST00000450955.5	DLG1	ENSG00000075711	discs large MAGUK scaffold protein 1 Source HGNC Symbol Acc HGNC 2900
B05	UPFH1132373	ENST00000575458.5	DVL2	ENSG00000004975	dishevelled segment polarity protein 2 Source HGNC Symbol Acc HGNC 3086
B06	UPFH0089931	ENST00000441802.7	FAT1	ENSG00000083857	FAT atypical cadherin 1 Source HGNC Symbol Acc HGNC 3595
B07	UPFH0352330	ENST00000261800.5	FAT2	ENSG00000086570	FAT atypical cadherin 2 Source HGNC Symbol Acc HGNC 3596
B08	UPFH0005589	ENST00000489716.1	FAT3	ENSG00000165323	FAT atypical cadherin 3 Source HGNC Symbol Acc HGNC 23112
B09	UPFH0156082	ENST00000335110.5	FAT4	ENSG00000196159	FAT atypical cadherin 4 Source HGNC Symbol Acc HGNC 23109
B10	UPFH0242364	ENST00000317811.5	FJX1	ENSG00000179431	four-jointed box kinase 1 Source HGNC Symbol Acc HGNC 17166
B11	UPFH0128095	ENST00000618596.1	GPC5	ENSG00000179399	glypican 5 Source HGNC Symbol Acc HGNC 4453
B12	UPFH1132448	ENST00000406875.8	HIPK2	ENSG00000064393	homeodomain interacting protein kinase 2 Source HGNC Symbol Acc HGNC 14402
C01	UPFH0063519	ENST00000493413.1	HMCN1	ENSG00000143341	hemicentin 1 Source HGNC Symbol Acc HGNC 19194
C02	UPFH0053822	ENST00000556731.5	AJUBA	ENSG00000129474	ajuba LIM protein Source HGNC Symbol Acc HGNC 20250
C03	UPFH0410954	ENST00000542747.5	LATS1	ENSG00000131023	large tumor suppressor kinase 1 Source HGNC Symbol Acc HGNC 6514
C04	UPFH0308328	ENST00000382592.5	LATS2	ENSG00000150457	large tumor suppressor kinase 2 Source HGNC Symbol Acc HGNC 6515
C05	UPFH0390372	ENST00000465039.5	LIMD1	ENSG00000144791	LIM domains containing 1 Source HGNC Symbol Acc HGNC 6612
C06	UPFH0018696	ENST00000604000.4	LIX1L	ENSG00000271601	limb and CNS expressed 1 like Source HGNC Symbol Acc HGNC 28715
C07	UPFH0228579	ENST00000621229.1	LLGL1	ENSG00000131899	LLGL scribble cell polarity complex component 1 Source HGNC Symbol Acc HGNC 6628
C08	UPFH0592294	ENST00000578536.5	LLGL2	ENSG00000073350	LLGL scribble cell polarity complex component 2 Source HGNC Symbol Acc HGNC 6629
C09	UPFH0498803	ENST00000414139.5	LPP	ENSG00000145012	LIM domain containing preferred translocation partner in lipoma Source HGNC Symbol Acc HGNC 6679
C10	UPFH0530550	ENST00000641563.1	MAPK10	ENSG00000109339	mitogen-activated protein kinase 10 Source HGNC Symbol Acc HGNC 6872
		ENST00000488		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0550156	550.5	MEIS1	143995	Meis homeobox 1 Source HGNC Symbol Acc HGNC 7000
C12	UPFH0572966	ENST00000309395.6	MOB1B	ENSG00000173542	MOB kinase activator 1B Source HGNC Symbol Acc HGNC 29801
D01	UPFH0052766	ENST00000463975.1	MOB1A	ENSG00000114978	MOB kinase activator 1A Source HGNC Symbol Acc HGNC 16015
D02	UPFH0017243	ENST00000546205.5	MPDZ	ENSG00000107186	multiple PDZ domain crumbs cell polarity complex component Source HGNC Symbol Acc HGNC 7208
D03	UPFH0189029	ENST00000261681.8	MPP5	ENSG00000072415	membrane palmitoylated protein 5 Source HGNC Symbol Acc HGNC 18669
D04	UPFH0032350	ENST00000480268.5	MST1	ENSG00000173531	macrophage stimulating 1 Source HGNC Symbol Acc HGNC 7380
D05	UPFH1132563	ENST00000517291.1	MYC	ENSG00000136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
D06	UPFH0114449	ENST00000361166.8	NF2	ENSG00000186575	neurofibromin 2 Source HGNC Symbol Acc HGNC 7773
D07	UPFH0272768	ENST00000378156.9	NPHP4	ENSG00000131697	nephrocystin 4 Source HGNC Symbol Acc HGNC 19104
D08	UPFH0076865	ENST00000340077.9	PARD3	ENSG00000148498	par-3 family cell polarity regulator Source HGNC Symbol Acc HGNC 16051
D09	UPFH0463531	ENST00000470488.2	PARD6G	ENSG00000178184	par-6 family cell polarity regulator gamma Source HGNC Symbol Acc HGNC 16076
D10	UPFH0249550	ENST00000361163.8	POTEF	ENSG00000196604	POTE ankyrin domain family member F Source HGNC Symbol Acc HGNC 33905
D11	UPFH0548663	ENST00000221138.9	PPP2CB	ENSG00000104695	protein phosphatase 2 catalytic subunit beta Source HGNC Symbol Acc HGNC 9300
D12	UPFH0559678	ENST00000473455.2	PPP2R1A	ENSG00000105568	protein phosphatase 2 scaffold subunit Aalpha Source HGNC Symbol Acc HGNC 9302
E01	UPFH0198079	ENST00000472664.1	PPP2R2D	ENSG00000175470	protein phosphatase 2 regulatory subunit Bdelta Source HGNC Symbol Acc HGNC 23732
E02	UPFH0115663	ENST00000485837.5	PRKCI	ENSG00000163558	protein kinase C iota Source HGNC Symbol Acc HGNC 9404
E03	UPFH1132634	ENST00000378567.8	PRKCZ	ENSG00000067606	protein kinase C zeta Source HGNC Symbol Acc HGNC 9412
E04	UPFH0065307	ENST00000366956.10	PTPN14	ENSG00000152104	protein tyrosine phosphatase, non-receptor type 14 Source HGNC Symbol Acc HGNC 9647
E05	UPFH0499489	ENST00000478553.1	RASSF2	ENSG00000101265	Ras association domain family member 2 Source HGNC Symbol Acc HGNC 9883
E06	UPFH0148543	ENST00000472561.5	RASSF4	ENSG00000107551	Ras association domain family member 4 Source HGNC Symbol Acc HGNC 20793
E07	UPFH0023463	ENST00000480342.5	RERE	ENSG00000142599	arginine-glutamic acid dipeptide repeats Source HGNC Symbol Acc HGNC 9965
E08	UPFH0519147	ENST00000557458.1	SAV1	ENSG00000151748	salvador family WW domain containing protein 1 Source HGNC Symbol Acc HGNC 17795
E09	UPFH0201104	ENST00000377533.7	SCRIB	ENSG00000180900	scribbled planar cell polarity protein Source HGNC Symbol Acc HGNC 30377
E10	UPFH1132685	ENST00000515385.1	SMAD1	ENSG00000170365	SMAD family member 1 Source HGNC Symbol Acc HGNC 6767
E11	UPFH0182082	ENST00000419617.7	STK3	ENSG00000104375	serine/threonine kinase 3 Source HGNC Symbol Acc HGNC 11406
E12	UPFH0148239	ENST00000474717.2	STK4	ENSG00000101109	serine/threonine kinase 4 Source HGNC Symbol Acc HGNC 11408
F01	UPFH0098457	ENST00000261716.7	TAOK1	ENSG00000160551	TAO kinase 1 Source HGNC Symbol Acc HGNC 29259
F02	UPFH0574042	ENST00000308893.9	TAOK2	ENSG00000149930	TAO kinase 2 Source HGNC Symbol Acc HGNC 16835
F03	UPFH0175760	ENST00000537822.1	TAOK3	ENSG00000135090	TAO kinase 3 Source HGNC Symbol Acc HGNC 18133
F04	UPFH0013162	ENST00000617701.5	TAZ	ENSG00000102125	tafazzin Source HGNC Symbol Acc HGNC 11577
F05	UPFH0564405	ENST00000638666.1	TEAD1	ENSG00000187079	TEA domain transcription factor 1 Source HGNC Symbol Acc HGNC 11714
F06	UPFH0018890	ENST00000593945.5	TEAD2	ENSG00000074219	TEA domain transcription factor 2 Source HGNC Symbol Acc HGNC 11715
F07	UPFH0385789	ENST00000402886.8	TEAD3	ENSG00000007866	TEA domain transcription factor 3 Source HGNC Symbol Acc HGNC 11716
F08	UPFH0229189	ENST00000359864.7	TEAD4	ENSG00000197905	TEA domain transcription factor 4 Source HGNC Symbol Acc HGNC 11717
F09	UPFH0310877	ENST00000558447.1	TJP1	ENSG00000104067	tight junction protein 1 Source HGNC Symbol Acc HGNC 11827
F10	UPFH0564119	ENST00000649783.1	TJP2	ENSG00000119139	tight junction protein 2 Source HGNC Symbol Acc HGNC 11828

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0248912	ENST00000418709.6	TP63	ENSG00000073282	tumor protein p63 Source HGNC Symbol Acc HGNC 15979
F12	UPFH0599716	ENST00000560918.2	TSHZ1	ENSG00000179981	teashirt zinc finger homeobox 1 Source HGNC Symbol Acc HGNC 10669
G01	UPFH0445060	ENST00000329613.7	TSHZ2	ENSG00000182463	teashirt zinc finger homeobox 2 Source HGNC Symbol Acc HGNC 13010
G02	UPFH0250516	ENST00000560707.1	TSHZ3	ENSG00000121297	teashirt zinc finger homeobox 3 Source HGNC Symbol Acc HGNC 30700
G03	UPFH0344484	ENST00000293549.3	WNT1	ENSG00000125084	Wnt family member 1 Source HGNC Symbol Acc HGNC 12774
G04	UPFH0500081	ENST00000585928.1	WTIP	ENSG00000142279	WT1 interacting protein Source HGNC Symbol Acc HGNC 20964
G05	UPFH0162934	ENST00000524228.5	WWC1	ENSG00000113645	WW and C2 domain containing 1 Source HGNC Symbol Acc HGNC 29435
G06	UPFH0220678	ENST00000465804.5	WWTR1	ENSG00000018408	WW domain containing transcription regulator 1 Source HGNC Symbol Acc HGNC 24042
G07	UPFH0175061	ENST00000282441.10	YAP1	ENSG00000137693	Yes associated protein 1 Source HGNC Symbol Acc HGNC 16262
G08	UPFH0374368	ENST00000445830.1	YWHAB	ENSG00000166913	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta Source HGNC Symbol Acc HGNC 12849
G09	UPFH0004519	ENST00000573196.5	YWHAE	ENSG00000108953	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon Source HGNC Symbol Acc HGNC 12851
G10	UPFH0056437	ENST00000474715.1	YWHAQ	ENSG00000134308	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta Source HGNC Symbol Acc HGNC 12854
G11	UPFH0518715	ENST00000522819.5	YWHAZ	ENSG00000164924	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta Source HGNC Symbol Acc HGNC 12855
G12	UPFH0379729	ENST00000478902.1	ZDHHC18	ENSG00000204160	zinc finger DHHC-type containing 18 Source HGNC Symbol Acc HGNC 20712
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.

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