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

Human Cell Motility

Cat. no. 249955 UPHS-128ZA

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	ACTN1	ACTN3	ACTN4	ACTR2	ACTR3	AKT1	ARF6	ARHGDIA	ARHGEF7	BAIAP2	BCAR1	CAPN1
B	CAPN2	CAV1	CDC42	CFL1	CRK	CSF1	CTTN	DIAPH1	DPP4	EGF	EGFR	ENAH
C	EZR	FAP	FGF2	HGF	IGF1	IGF1R	ILK	ITGA4	ITGB1	ITGB2	ITGB3	LIMK1
D	MAPK1	MET	MMP14	MMP2	MMP9	MSN	MYH10	MYH9	MYL9	MYLK	PAK1	PAK4
E	PFN1	PIK3CA	PLAUR	PLCG1	PLD1	PRKCA	PTEN	PTK2	PTK2B	PTPN1	PXN	RAC1
F	RAC2	RASA1	RDX	RHO	RHOA	RHOB	RHOC	RND3	ROCK1	SH3PXD2A	SRC	STAT3
G	SVIL	TGFB1	TIMP2	TLN1	VASP	VCL	VEGFA	VIM	WASF1	WASF2	WASL	WIPF1
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	UPFH0586030	ENST00000438964.6	ACTN1	ENSG00000072110	actinin alpha 1 Source HGNC Symbol Acc HGNC 163
A02	UPFH0531688	ENST00000513398.2	ACTN3	ENSG00000248746	actinin alpha 3 (gene/pseudogene) Source HGNC Symbol Acc HGNC 165
A03	UPFH0354547	ENST00000390009.7	ACTN4	ENSG00000130402	actinin alpha 4 Source HGNC Symbol Acc HGNC 166
A04	UPFH0558245	ENST00000377982.8	ACTR2	ENSG00000138071	ARP2 actin related protein 2 homolog Source HGNC Symbol Acc HGNC 169
A05	UPFH0512486	ENST00000415792.5	ACTR3	ENSG00000115091	ARP3 actin related protein 3 homolog Source HGNC Symbol Acc HGNC 170
A06	UPFH0453992	ENST00000555528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A07	UPFH0302648	ENST00000298316.7	ARF6	ENSG00000165527	ADP ribosylation factor 6 Source HGNC Symbol Acc HGNC 659
A08	UPFH0191999	ENST00000583791.1	ARHGDIA	ENSG00000141522	Rho GDP dissociation inhibitor alpha Source HGNC Symbol Acc HGNC 678
A09	UPFH0613464	ENST00000375741.6	ARHGEF7	ENSG00000102606	Rho guanine nucleotide exchange factor 7 Source HGNC Symbol Acc HGNC 15607
A10	UPFH0407251	ENST00000573677.5	BAIAP2	ENSG00000175866	BAI1 associated protein 2 Source HGNC Symbol Acc HGNC 947
A11	UPFH0300381	ENST00000418647.7	BCAR1	ENSG00000050820	BCAR1, Cas family scaffold protein Source HGNC Symbol Acc HGNC 971
A12	UPFH0597247	ENST00000527323.5	CAPN1	ENSG00000014216	calpain 1 Source HGNC Symbol Acc HGNC 1476
B01	UPFH0544717	ENST00000433674.6	CAPN2	ENSG00000162909	calpain 2 Source HGNC Symbol Acc HGNC 1479
B02	UPFH0192343	ENST00000393468.1	CAV1	ENSG00000105974	caveolin 1 Source HGNC Symbol Acc HGNC 1527
B03	UPFH0571108	ENST00000400259.5	CDC42	ENSG00000070831	cell division cycle 42 Source HGNC Symbol Acc HGNC 1736
B04	UPFH0122648	ENST00000525710.1	CFL1	ENSG00000172757	cofilin 1 Source HGNC Symbol Acc HGNC 1874
B05	UPFH0150681	ENST00000572145.1	CRK	ENSG00000167193	CRK proto-oncogene, adaptor protein Source HGNC Symbol Acc HGNC 2362
B06	UPFH1132338	ENST00000329608.11	CSF1	ENSG00000184371	colony stimulating factor 1 Source HGNC Symbol Acc HGNC 2432
B07	UPFH0238959	ENST00000498223.3	CTTN	ENSG00000085733	cortactin Source HGNC Symbol Acc HGNC 3338
B08	UPFH0244789	ENST00000398557.8	DIAPH1	ENSG00000131504	diaphanous related formin 1 Source HGNC Symbol Acc HGNC 2876
B09	UPFH0614636	ENST00000434918.6	DPP4	ENSG00000197635	dipeptidyl peptidase 4 Source HGNC Symbol Acc HGNC 3009
B10	UPFH1132380	ENST00000503392.1	EGF	ENSG00000138798	epidermal growth factor Source HGNC Symbol Acc HGNC 3229
B11	UPFH1132381	ENST00000420316.6	EGFR	ENSG00000146648	epidermal growth factor receptor Source HGNC Symbol Acc HGNC 3236
B12	UPFH0424578	ENST00000391874.2	ENAH	ENSG00000154380	ENAH, actin regulator Source HGNC Symbol Acc HGNC 18271
C01	UPFH0388843	ENST00000392177.8	EZR	ENSG00000092820	ezrin Source HGNC Symbol Acc HGNC 12691
C02	UPFH0243797	ENST00000443424.5	FAP	ENSG00000078098	fibroblast activation protein alpha Source HGNC Symbol Acc HGNC 3590
C03	UPFH0613093	ENST00000264498.7	FGF2	ENSG00000138685	fibroblast growth factor 2 Source HGNC Symbol Acc HGNC 3676
C04	UPFH1132871	ENST00000643024.1	HGF	ENSG00000019991	hepatocyte growth factor Source HGNC Symbol Acc HGNC 4893
C05	UPFH0229443	ENST00000337514.10	IGF1	ENSG00000017427	insulin like growth factor 1 Source HGNC Symbol Acc HGNC 5464
C06	UPFH0237955	ENST00000650285.1	IGF1R	ENSG00000140443	insulin like growth factor 1 receptor Source HGNC Symbol Acc HGNC 5465
C07	UPFH0412404	ENST00000299421.8	ILK	ENSG00000166333	integrin linked kinase Source HGNC Symbol Acc HGNC 6040
C08	UPFH1132815	ENST00000397033.7	ITGA4	ENSG00000115232	integrin subunit alpha 4 Source HGNC Symbol Acc HGNC 6140
C09	UPFH1132498	ENST00000423113.5	ITGB1	ENSG00000150093	integrin subunit beta 1 Source HGNC Symbol Acc HGNC 6153
C10	UPFH1132499	ENST00000397850.6	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
		ENST00000559		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1132500	488.5	ITGB3	259207	integrin subunit beta 3 Source HGNC Symbol Acc HGNC 6156
C12	UPFH0578089	ENST00000336180.7	LIMK1	ENSG00000106683	LIM domain kinase 1 Source HGNC Symbol Acc HGNC 6613
D01	UPFH0366815	ENST00000215832.10	MAPK1	ENSG00000100030	mitogen-activated protein kinase 1 Source HGNC Symbol Acc HGNC 6871
D02	UPFH1132915	ENST00000436117.2	MET	ENSG00000105976	MET proto-oncogene, receptor tyrosine kinase Source HGNC Symbol Acc HGNC 7029
D03	UPFH1132973	ENST00000311852.11	MMP14	ENSG00000157227	matrix metallopeptidase 14 Source HGNC Symbol Acc HGNC 7160
D04	UPFH1132551	ENST00000437642.6	MMP2	ENSG00000087245	matrix metallopeptidase 2 Source HGNC Symbol Acc HGNC 7166
D05	UPFH0367626	ENST00000372330.3	MMP9	ENSG00000100985	matrix metallopeptidase 9 Source HGNC Symbol Acc HGNC 7176
D06	UPFH1132558	ENST00000360270.7	MSN	ENSG00000147065	moesin Source HGNC Symbol Acc HGNC 7373
D07	UPFH0379194	ENST00000360416.7	MYH10	ENSG00000133026	myosin heavy chain 10 Source HGNC Symbol Acc HGNC 7568
D08	UPFH0604008	ENST00000463027.1	MYH9	ENSG00000100345	myosin heavy chain 9 Source HGNC Symbol Acc HGNC 7579
D09	UPFH0241652	ENST00000346786.2	MYL9	ENSG00000101335	myosin light chain 9 Source HGNC Symbol Acc HGNC 15754
D10	UPFH0114137	ENST00000360772.7	MYLK	ENSG00000065534	myosin light chain kinase Source HGNC Symbol Acc HGNC 7590
D11	UPFH0310946	ENST00000356341.7	PAK1	ENSG00000149269	p21 (RAC1) activated kinase 1 Source HGNC Symbol Acc HGNC 8590
D12	UPFH0491525	ENST00000321944.8	PAK4	ENSG00000130669	p21 (RAC1) activated kinase 4 Source HGNC Symbol Acc HGNC 16059
E01	UPFH0361625	ENST00000574872.1	PFN1	ENSG00000108518	profilin 1 Source HGNC Symbol Acc HGNC 8881
E02	UPFH0109251	ENST00000462255.1	PIK3CA	ENSG00000121879	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source HGNC Symbol Acc HGNC 8975
E03	UPFH0152071	ENST00000601723.5	PLAUR	ENSG00000011422	plasminogen activator, urokinase receptor Source HGNC Symbol Acc HGNC 9053
E04	UPFH0088354	ENST00000617873.4	PLCG1	ENSG00000124181	phospholipase C gamma 1 Source HGNC Symbol Acc HGNC 9065
E05	UPFH0135916	ENST00000446289.1	PLD1	ENSG00000075651	phospholipase D1 Source HGNC Symbol Acc HGNC 9067
E06	UPFH0607768	ENST00000578063.5	PRKCA	ENSG00000154229	protein kinase C alpha Source HGNC Symbol Acc HGNC 9393
E07	UPFH1132982	ENST00000371953.8	PTEN	ENSG00000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
E08	UPFH1132643	ENST00000522684.5	PTK2	ENSG00000169398	protein tyrosine kinase 2 Source HGNC Symbol Acc HGNC 9611
E09	UPFH0298721	ENST00000519512.5	PTK2B	ENSG00000120899	protein tyrosine kinase 2 beta Source HGNC Symbol Acc HGNC 9612
E10	UPFH0306220	ENST00000371621.5	PTPN1	ENSG00000196396	protein tyrosine phosphatase, non-receptor type 1 Source HGNC Symbol Acc HGNC 9642
E11	UPFH0358908	ENST00000547983.5	PXN	ENSG00000089159	paxillin Source HGNC Symbol Acc HGNC 9718
E12	UPFH1132648	ENST00000348035.9	RAC1	ENSG00000136238	Rac family small GTPase 1 Source HGNC Symbol Acc HGNC 9801
F01	UPFH0283088	ENST00000249071.11	RAC2	ENSG00000128340	Rac family small GTPase 2 Source HGNC Symbol Acc HGNC 9802
F02	UPFH0086954	ENST00000509953.1	RASA1	ENSG00000145715	RAS p21 protein activator 1 Source HGNC Symbol Acc HGNC 9871
F03	UPFH0413152	ENST00000646663.1	RDX	ENSG00000137710	radixin Source HGNC Symbol Acc HGNC 9944
F04	UPFH0277028	ENST00000296271.3	RHO	ENSG00000163914	rhodopsin Source HGNC Symbol Acc HGNC 10012
F05	UPFH1132657	ENST00000445425.4	RHOA	ENSG00000067560	ras homolog family member A Source HGNC Symbol Acc HGNC 667
F06	UPFH0026449	ENST00000272233.5	RHOB	ENSG00000143878	ras homolog family member B Source HGNC Symbol Acc HGNC 668
F07	UPFH0086618	ENST00000369637.5	RHOC	ENSG00000155366	ras homolog family member C Source HGNC Symbol Acc HGNC 669
F08	UPFH0212332	ENST00000473639.1	RND3	ENSG00000115963	Rho family GTPase 3 Source HGNC Symbol Acc HGNC 671
F09	UPFH0614334	ENST00000578051.1	ROCK1	ENSG00000067900	Rho associated coiled-coil containing protein kinase 1 Source HGNC Symbol Acc HGNC 10251
F10	UPFH0483697	ENST00000315994.6	SH3PXD2A	ENSG00000107957	SH3 and PX domains 2A Source HGNC Symbol Acc HGNC 23664

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0308412	ENST00000472968.1	SRC	ENSG00000197122	SRC proto-oncogene, non-receptor tyrosine kinase Source HGNC Symbol Acc HGNC 11283
F12	UPFH0531262	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G01	UPFH0489844	ENST00000464984.1	SVIL	ENSG00000197321	supervillin Source HGNC Symbol Acc HGNC 11480
G02	UPFH0193430	ENST00000221930.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G03	UPFH0276014	ENST00000262768.11	TIMP2	ENSG00000035862	TIMP metallopeptidase inhibitor 2 Source HGNC Symbol Acc HGNC 11821
G04	UPFH0064240	ENST00000378192.2	TLN1	ENSG00000137076	talin 1 Source HGNC Symbol Acc HGNC 11845
G05	UPFH0013526	ENST00000592139.1	VASP	ENSG00000125753	vasodilator stimulated phosphoprotein Source HGNC Symbol Acc HGNC 12652
G06	UPFH0466583	ENST00000478896.2	VCL	ENSG00000035403	vinculin Source HGNC Symbol Acc HGNC 12665
G07	UPFH0281656	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
G08	UPFH1132857	ENST00000544301.7	VIM	ENSG00000026025	vimentin Source HGNC Symbol Acc HGNC 12692
G09	UPFH0336515	ENST00000392589.6	WASF1	ENSG00000112290	WAS protein family member 1 Source HGNC Symbol Acc HGNC 12732
G10	UPFH0126701	ENST00000536657.1	WASF2	ENSG00000158195	WAS protein family member 2 Source HGNC Symbol Acc HGNC 12733
G11	UPFH0499368	ENST00000223023.5	WASL	ENSG00000106299	Wiskott-Aldrich syndrome like Source HGNC Symbol Acc HGNC 12735
G12	UPFH0083101	ENST00000409891.5	WIPF1	ENSG00000115935	WAS/WASL interacting protein family member 1 Source HGNC Symbol Acc HGNC 12736
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.