

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

Human Cell Lineage Identification

Cat. no. 249955 UPHS-508ZR

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	ALB	APOH	AQP1	BMP4	CCR5	CD34	CD3E	CD79A	CHAT	COL10A1	COMP	CPA1
B	CTSK	DCN	DCX	DNMT3B	DPP4	ENO1	FABP7	FGF5	FOXA1	FOXO3	FOXG1	G6PC
C	GAD1	GAD2	GALC	GATA1	GATA2	GATA6	GBX2	GDF3	GFAP	HAND1	HAND2	HES5
D	HNF4A	IBSP	IGF2	INS	ITGB4	KRT10	KRT14	KRT19	LEFTY1	MAP3K12	MIOX	MIXL1
E	MSLN	MYH1	MYH11	MYH7	MYL3	NANOG	NEUROD1	NEUROG2	NIKX2-2	NPPA	OLIG2	OTX2
F	PDGFRA	PODXL	POU4F2	POU5F1	PROM1	PTCRA	RCVRN	RUNX1	RYR2	SFTPB	SFTPD	SLC17A6
G	SLC17A7	SLC2A2	SLC32A1	SMTN	SOX17	SOX2	SOX7	TBXT	TAT	TYR	ZFP42	ZIC1
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	UPFH1132224	ENST00000415165.6	ALB	ENSG00000163631	albumin Source HGNC Symbol Acc HGNC 399
A02	UPFH0148011	ENST00000205948.11	APOH	ENSG00000091583	apolipoprotein H Source HGNC Symbol Acc HGNC 616
A03	UPFH1132239	ENST00000311813.10	AQP1	ENSG00000240583	aquaporin 1 (Colton blood group) Source HGNC Symbol Acc HGNC 633
A04	UPFH0443169	ENST00000558984.1	BMP4	ENSG00000125378	bone morphogenetic protein 4 Source HGNC Symbol Acc HGNC 1071
A05	UPFH1132860	ENST00000292303.4	CCR5	ENSG00000160791	C-C motif chemokine receptor 5 (gene/pseudogene) Source HGNC Symbol Acc HGNC 1606
A06	UPFH0464651	ENST00000367036.7	CD34	ENSG00000174059	CD34 molecule Source HGNC Symbol Acc HGNC 1662
A07	UPFH0193590	ENST00000361763.8	CD3E	ENSG00000198851	CD3e molecule Source HGNC Symbol Acc HGNC 1674
A08	UPFH0398187	ENST00000597454.1	CD79A	ENSG00000105369	CD79a molecule Source HGNC Symbol Acc HGNC 1698
A09	UPFH0033940	ENST00000466590.6	CHAT	ENSG00000070748	choline O-acetyltransferase Source HGNC Symbol Acc HGNC 1912
A10	UPFH0319580	ENST00000327673.4	COL10A1	ENSG00000123500	collagen type X alpha 1 chain Source HGNC Symbol Acc HGNC 2185
A11	UPFH0168413	ENST00000542601.6	COMP	ENSG00000105664	cartilage oligomeric matrix protein Source HGNC Symbol Acc HGNC 2227
A12	UPFH0113315	ENST00000011292.8	CPA1	ENSG00000091704	carboxypeptidase A1 Source HGNC Symbol Acc HGNC 2296
B01	UPFH0573582	ENST00000443913.1	CTSK	ENSG00000143387	cathepsin K Source HGNC Symbol Acc HGNC 2536
B02	UPFH1132355	ENST00000052754.10	DCN	ENSG00000011465	decorin Source HGNC Symbol Acc HGNC 2705
B03	UPFH0182845	ENST00000488120.2	DCX	ENSG00000077279	doublecortin Source HGNC Symbol Acc HGNC 2714
B04	UPFH0334974	ENST00000328111.6	DNMT3B	ENSG00000088305	DNA methyltransferase 3 beta Source HGNC Symbol Acc HGNC 2979
B05	UPFH0614636	ENST00000434918.6	DPP4	ENSG00000197635	dipeptidyl peptidase 4 Source HGNC Symbol Acc HGNC 3009
B06	UPFH0404044	ENST00000234590.10	ENO1	ENSG00000074800	enolase 1 Source HGNC Symbol Acc HGNC 3350
B07	UPFH0217723	ENST00000368444.8	FABP7	ENSG00000164434	fatty acid binding protein 7 Source HGNC Symbol Acc HGNC 3562
B08	UPFH0217980	ENST00000507780.1	FGF5	ENSG00000138675	fibroblast growth factor 5 Source HGNC Symbol Acc HGNC 3683
B09	UPFH0457116	ENST00000250448.3	FOXA1	ENSG00000129514	forkhead box A1 Source HGNC Symbol Acc HGNC 5021
B10	UPFH0380377	ENST00000371116.3	FOXO3	ENSG00000187140	forkhead box D3 Source HGNC Symbol Acc HGNC 3804
B11	UPFH0039193	ENST00000637220.1	FOXG1	ENSG00000176165	forkhead box G1 Source HGNC Symbol Acc HGNC 3811
B12	UPFH0468561	ENST00000253801.6	G6PC	ENSG00000131482	glucose-6-phosphatase catalytic subunit Source HGNC Symbol Acc HGNC 4056
C01	UPFH0490344	ENST00000493875.5	GAD1	ENSG00000128683	glutamate decarboxylase 1 Source HGNC Symbol Acc HGNC 4092
C02	UPFH0545872	ENST00000376261.8	GAD2	ENSG00000136750	glutamate decarboxylase 2 Source HGNC Symbol Acc HGNC 4093
C03	UPFH0140964	ENST00000261304.7	GALC	ENSG00000054983	galactosylceramidase Source HGNC Symbol Acc HGNC 4115
C04	UPFH0379883	ENST00000651144.1	GATA1	ENSG00000102145	GATA binding protein 1 Source HGNC Symbol Acc HGNC 4170
C05	UPFH0034415	ENST00000430265.6	GATA2	ENSG00000179348	GATA binding protein 2 Source HGNC Symbol Acc HGNC 4171
C06	UPFH0399887	ENST00000269216.8	GATA6	ENSG00000141448	GATA binding protein 6 Source HGNC Symbol Acc HGNC 4174
C07	UPFH0250934	ENST00000465889.1	GBX2	ENSG00000168505	gastrulation brain homeobox 2 Source HGNC Symbol Acc HGNC 4186
C08	UPFH1132908	ENST00000329913.4	GDF3	ENSG00000184344	growth differentiation factor 3 Source HGNC Symbol Acc HGNC 4218
C09	UPFH0473904	ENST00000592320.6	GFAP	ENSG00000131095	glial fibrillary acidic protein Source HGNC Symbol Acc HGNC 4235
C10	UPFH0372159	ENST00000231121.3	HAND1	ENSG00000113196	heart and neural crest derivatives expressed 1 Source HGNC Symbol Acc HGNC 4807
		ENST00000621		ENSG000000	heart and neural crest derivatives expressed 2 Source HGNC Symbol Acc HGNC

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0347346	866.1	HAND2	164107	4808
C12	UPFH1132443	ENST00000378453.4	HES5	ENSG00000197921	hes family bHLH transcription factor 5 Source HGNC Symbol Acc HGNC 19764
D01	UPFH0223088	ENST00000372920.1	HNF4A	ENSG00000101076	hepatocyte nuclear factor 4 alpha Source HGNC Symbol Acc HGNC 5024
D02	UPFH0095761	ENST00000226284.7	IBSP	ENSG00000029559	integrin binding sialoprotein Source HGNC Symbol Acc HGNC 5341
D03	UPFH0479939	ENST00000418738.2	IGF2	ENSG00000167244	insulin like growth factor 2 Source HGNC Symbol Acc HGNC 5466
D04	UPFH1132488	ENST00000381330.4	INS	ENSG00000254647	insulin Source HGNC Symbol Acc HGNC 6081
D05	UPFH1132501	ENST00000200181.8	ITGB4	ENSG00000132470	integrin subunit beta 4 Source HGNC Symbol Acc HGNC 6158
D06	UPFH0585139	ENST00000269576.6	KRT10	ENSG00000186395	keratin 10 Source HGNC Symbol Acc HGNC 6413
D07	UPFH1132514	ENST00000167586.7	KRT14	ENSG00000186847	keratin 14 Source HGNC Symbol Acc HGNC 6416
D08	UPFH0435640	ENST00000361566.7	KRT19	ENSG00000171345	keratin 19 Source HGNC Symbol Acc HGNC 6436
D09	UPFH1132876	ENST00000272134.5	LEFTY1	ENSG00000243709	left-right determination factor 1 Source HGNC Symbol Acc HGNC 6552
D10	UPFH0385096	ENST00000547488.6	MAP3K12	ENSG00000139625	mitogen-activated protein kinase kinase kinase 12 Source HGNC Symbol Acc HGNC 6851
D11	UPFH0157014	ENST00000395733.7	MIOX	ENSG00000100253	myo-inositol oxygenase Source HGNC Symbol Acc HGNC 14522
D12	UPFH0090456	ENST00000557734.1	MIXL1	ENSG00000185155	Mix paired-like homeobox Source HGNC Symbol Acc HGNC 13363
E01	UPFH0352744	ENST00000563941.5	MSLN	ENSG00000102854	mesothelin Source HGNC Symbol Acc HGNC 7371
E02	UPFH0414024	ENST00000226207.6	MYH1	ENSG00000109061	myosin heavy chain 1 Source HGNC Symbol Acc HGNC 7567
E03	UPFH0360313	ENST00000570785.1	MYH11	ENSG00000133392	myosin heavy chain 11 Source HGNC Symbol Acc HGNC 7569
E04	UPFH0615291	ENST00000355349.4	MYH7	ENSG00000092054	myosin heavy chain 7 Source HGNC Symbol Acc HGNC 7577
E05	UPFH0276989	ENST00000292327.4	MYL3	ENSG00000160808	myosin light chain 3 Source HGNC Symbol Acc HGNC 7584
E06	UPFH1172932	ENST00000541267.5	NANOG	ENSG00000111704	Nanog homeobox Source HGNC Symbol Acc HGNC 20857
E07	UPFH0416171	ENST00000496876.1	NEUROD1	ENSG00000162992	neuronal differentiation 1 Source HGNC Symbol Acc HGNC 7762
E08	UPFH0379726	ENST00000313341.4	NEUROG2	ENSG00000178403	neurogenin 2 Source HGNC Symbol Acc HGNC 13805
E09	UPFH0018157	ENST00000377142.4	NKX2-2	ENSG00000125820	NK2 homeobox 2 Source HGNC Symbol Acc HGNC 7835
E10	UPFH0312155	ENST00000376480.7	NPPA	ENSG00000175206	natriuretic peptide A Source HGNC Symbol Acc HGNC 7939
E11	UPFH0058283	ENST00000382357.4	OLIG2	ENSG00000205927	oligodendrocyte transcription factor 2 Source HGNC Symbol Acc HGNC 9398
E12	UPFH0514197	ENST00000554845.1	OTX2	ENSG00000165588	orthodenticle homeobox 2 Source HGNC Symbol Acc HGNC 8522
F01	UPFH1132609	ENST00000508170.5	PDGFRA	ENSG00000134853	platelet derived growth factor receptor alpha Source HGNC Symbol Acc HGNC 8803
F02	UPFH0435918	ENST00000322985.9	PODXL	ENSG00000128567	podocalyxin like Source HGNC Symbol Acc HGNC 9171
F03	UPFH0030921	ENST00000281321.3	POU4F2	ENSG00000151615	POU class 4 homeobox 2 Source HGNC Symbol Acc HGNC 9219
F04	UPFH1172934	ENST00000441888.7	POU5F1	ENSG00000204531	POU class 5 homeobox 1 Source HGNC Symbol Acc HGNC 9221
F05	UPFH0346181	ENST00000447510.6	PROM1	ENSG00000007062	prominin 1 Source HGNC Symbol Acc HGNC 9454
F06	UPFH0460381	ENST00000441198.4	PTCRA	ENSG00000171611	pre T cell antigen receptor alpha Source HGNC Symbol Acc HGNC 21290
F07	UPFH0031392	ENST00000226193.5	RCVRN	ENSG00000109047	recoverin Source HGNC Symbol Acc HGNC 9937
F08	UPFH0023287	ENST00000437180.5	RUNX1	ENSG00000159216	runt related transcription factor 1 Source HGNC Symbol Acc HGNC 10471
F09	UPFH0133845	ENST00000609119.1	RYR2	ENSG00000198626	ryanodine receptor 2 Source HGNC Symbol Acc HGNC 10484
F10	UPFH0085909	ENST00000409383.5	SFTPB	ENSG00000168878	surfactant protein B Source HGNC Symbol Acc HGNC 10801

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH1132678	ENST00000372292.8	SFTPD	ENSG00000133661	surfactant protein D Source HGNC Symbol Acc HGNC 10803
F12	UPFH0464336	ENST00000263160.3	SLC17A6	ENSG00000091664	solute carrier family 17 member 6 Source HGNC Symbol Acc HGNC 16703
G01	UPFH0424303	ENST00000221485.8	SLC17A7	ENSG00000104888	solute carrier family 17 member 7 Source HGNC Symbol Acc HGNC 16704
G02	UPFH0582813	ENST00000471379.1	SLC2A2	ENSG00000163581	solute carrier family 2 member 2 Source HGNC Symbol Acc HGNC 11006
G03	UPFH0533586	ENST00000217420.2	SLC32A1	ENSG00000101438	solute carrier family 32 member 1 Source HGNC Symbol Acc HGNC 11018
G04	UPFH0259100	ENST00000404574.5	SMTN	ENSG00000183963	smoothelin Source HGNC Symbol Acc HGNC 11126
G05	UPFH1132969	ENST00000297316.5	SOX17	ENSG00000164736	SRY-box 17 Source HGNC Symbol Acc HGNC 18122
G06	UPFH0376428	ENST00000325404.3	SOX2	ENSG00000181449	SRY-box 2 Source HGNC Symbol Acc HGNC 11195
G07	UPFH1133616	ENST00000304501.2	SOX7	ENSG00000171056	SRY-box 7 Source HGNC Symbol Acc HGNC 18196
G08	UPFH0553481	ENST00000296946.6	TBXT	ENSG00000164458	T-box transcription factor T Source HGNC Symbol Acc HGNC 11515
G09	UPFH0600142	ENST00000355962.5	TAT	ENSG00000198650	tyrosine aminotransferase Source HGNC Symbol Acc HGNC 11573
G10	UPFH0315343	ENST00000263321.6	TYR	ENSG00000077498	tyrosinase Source HGNC Symbol Acc HGNC 12442
G11	UPFH0538154	ENST00000326866.5	ZFP42	ENSG00000179059	ZFP42 zinc finger protein Source HGNC Symbol Acc HGNC 30949
G12	UPFH0420811	ENST00000474034.1	ZIC1	ENSG00000152977	Zic family member 1 Source HGNC Symbol Acc HGNC 12872
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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