

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

## Human Phagocytosis

Cat. no. 249955 UPHS-173ZR

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

	1	2	3	4	5	6	7	8	9	10	11	12
A	ADIPOQ	AGER	ANXA1	AXL	C3	CALR	CD14	CD36	CD44	CD47	CEACAM3	CLEC7A
B	CLIC4	CNN2	COLEC12	CR1	CRK	CRP	CSF1	CSF2	CSK	CYP25I1	DOCK1	DOCK2
C	ELMO1	FAS	FCER1G	FCGR1A	FCGR2A	FCGR2B	FYN	GULP1	IFNG	IL1RL1	ITGAM	ITGAV
D	ITGB2	LYN	MARK14	MARCO	MBL2	MCOLN3	MERTK	MFGEB	MIF	MSN	MYD88	NOD1
E	PECAM1	PIPSK1A	PLA2G4A	PLA2G5	PLD1	PLD2	PRKCE	PROS1	PTEN	RAB5A	RAB7A	RAC1
F	RAC2	RALA	RALB	RAPGEF3	RHOA	SCARB1	SERPINE1	SFTPD	SIGLEC1	SIGLEC11	SIRPB1	STAB2
G	STX18	SYK	TGM2	TICAM1	TLR3	TLR9	TNF	TNFSF11	VAMP7	VAV1	WAS	WNT5A
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	UPFH1132772	ENST00000320741.7	ADIPOQ	ENSG00000181092	adiponectin, C1Q and collagen domain containing Source HGNC Symbol Acc HGNC 13633
A02	UPFH0518278	ENST00000473619.5	AGER	ENSG00000204305	advanced glycosylation end-product specific receptor Source HGNC Symbol Acc HGNC 320
A03	UPFH0020944	ENST00000495713.5	ANXA1	ENSG00000135046	annexin A1 Source HGNC Symbol Acc HGNC 533
A04	UPFH0225581	ENST00000594880.1	AXL	ENSG00000167601	AXL receptor tyrosine kinase Source HGNC Symbol Acc HGNC 905
A05	UPFH1132902	ENST00000596548.1	C3	ENSG00000125730	complement C3 Source HGNC Symbol Acc HGNC 1318
A06	UPFH0025967	ENST00000316448.9	CALR	ENSG00000179218	calreticulin Source HGNC Symbol Acc HGNC 1455
A07	UPFH0199310	ENST00000302014.11	CD14	ENSG00000170458	CD14 molecule Source HGNC Symbol Acc HGNC 1628
A08	UPFH1125151	ENST00000433696.6	CD36	ENSG00000135218	CD36 molecule Source HGNC Symbol Acc HGNC 1663
A09	UPFH0253499	ENST00000428726.7	CD44	ENSG00000026508	CD44 molecule (Indian blood group) Source HGNC Symbol Acc HGNC 1681
A10	UPFH0572719	ENST00000517766.5	CD47	ENSG00000196776	CD47 molecule Source HGNC Symbol Acc HGNC 1682
A11	UPFH0336754	ENST00000630848.2	CEACAM3	ENSG00000170956	carcinoembryonic antigen related cell adhesion molecule 3 Source HGNC Symbol Acc HGNC 1815
A12	UPFH0521742	ENST00000528799.1	CLEC7A	ENSG00000172243	C-type lectin domain containing 7A Source HGNC Symbol Acc HGNC 14558
B01	UPFH0083850	ENST00000488683.1	CLIC4	ENSG00000169504	chloride intracellular channel 4 Source HGNC Symbol Acc HGNC 13518
B02	UPFH0067548	ENST00000569352.6	CNN2	ENSG00000064666	calponin 2 Source HGNC Symbol Acc HGNC 2156
B03	UPFH0006004	ENST00000582147.1	COLEC12	ENSG00000158270	collectin subfamily member 12 Source HGNC Symbol Acc HGNC 16016
B04	UPFH0540196	ENST00000436595.1	CR1	ENSG00000203710	complement C3b/C4b receptor 1 (Knops blood group) Source HGNC Symbol Acc HGNC 2334
B05	UPFH0150681	ENST00000572145.1	CRK	ENSG00000167193	CRK proto-oncogene, adaptor protein Source HGNC Symbol Acc HGNC 2362
B06	UPFH0143745	ENST00000255030.9	CRP	ENSG00000132693	C-reactive protein Source HGNC Symbol Acc HGNC 2367
B07	UPFH1132338	ENST00000329608.11	CSF1	ENSG00000184371	colony stimulating factor 1 Source HGNC Symbol Acc HGNC 2432
B08	UPFH1132793	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
B09	UPFH0409120	ENST00000567571.5	CSK	ENSG00000103653	C-terminal Src kinase Source HGNC Symbol Acc HGNC 2444
B10	UPFH0367461	ENST00000595590.1	CYP2S1	ENSG00000167600	cytochrome P450 family 2 subfamily 5 member 1 Source HGNC Symbol Acc HGNC 15654
B11	UPFH0094239	ENST00000623213.1	DOCK1	ENSG00000150760	dedicator of cytokinesis 1 Source HGNC Symbol Acc HGNC 2987
B12	UPFH0006076	ENST00000256935.12	DOCK2	ENSG00000134516	dedicator of cytokinesis 2 Source HGNC Symbol Acc HGNC 2988
C01	UPFH0092897	ENST00000420636.5	ELMO1	ENSG00000155849	engulfment and cell motility 1 Source HGNC Symbol Acc HGNC 16286
C02	UPFH1132395	ENST00000357339.6	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
C03	UPFH0027992	ENST00000367992.7	FCER1G	ENSG00000158869	Fc fragment of IgE receptor Ig Source HGNC Symbol Acc HGNC 3611
C04	UPFH0313882	ENST00000444948.5	FCGR1A	ENSG00000150337	Fc fragment of IgG receptor Ia Source HGNC Symbol Acc HGNC 3613
C05	UPFH0461243	ENST00000536731.5	FCGR2A	ENSG00000143226	Fc fragment of IgG receptor IIa Source HGNC Symbol Acc HGNC 3616
C06	UPFH0263676	ENST00000236937.13	FCGR2B	ENSG00000072694	Fc fragment of IgG receptor IIb Source HGNC Symbol Acc HGNC 3618
C07	UPFH0007252	ENST00000496864.6	FYN	ENSG00000010180	FYN proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 4037
C08	UPFH0570921	ENST00000479019.5	GULP1	ENSG00000144366	GULP PTB domain containing engulfment adaptor 1 Source HGNC Symbol Acc HGNC 18649
C09	UPFH1132473	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
C10	UPFH0302915	ENST00000404917.6	IL1RL1	ENSG00000115602	interleukin 1 receptor like 1 Source HGNC Symbol Acc HGNC 5998
		ENST00000287		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0542903	497.13	ITGAM	169896	integrin subunit alpha M Source HGNC Symbol Acc HGNC 6149
C12	UPFH1132816	ENST00000261023.8	ITGAV	ENSG00000138448	integrin subunit alpha V Source HGNC Symbol Acc HGNC 6150
D01	UPFH1132499	ENST00000397850.6	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
D02	UPFH0169490	ENST00000420292.1	LYN	ENSG00000254087	LYN proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 6735
D03	UPFH0068247	ENST00000229795.7	MAPK14	ENSG00000112062	mitogen-activated protein kinase 14 Source HGNC Symbol Acc HGNC 6876
D04	UPFH0494275	ENST00000412481.1	MARCO	ENSG00000019169	macrophage receptor with collagenous structure Source HGNC Symbol Acc HGNC 6895
D05	UPFH0432165	ENST00000373968.3	MBL2	ENSG00000165471	mannose binding lectin 2 Source HGNC Symbol Acc HGNC 6922
D06	UPFH0387265	ENST00000490600.6	MCOLN3	ENSG00000055732	mucolipin 3 Source HGNC Symbol Acc HGNC 13358
D07	UPFH0056872	ENST00000295408.8	MERTK	ENSG00000153208	MER proto-oncogene, tyrosine kinase Source HGNC Symbol Acc HGNC 7027
D08	UPFH0199078	ENST00000268151.11	MFGE8	ENSG00000140545	milk fat globule-EGF factor 8 protein Source HGNC Symbol Acc HGNC 7036
D09	UPFH1132548	ENST00000215754.8	MIF	ENSG00000240972	macrophage migration inhibitory factor Source HGNC Symbol Acc HGNC 7097
D10	UPFH1132558	ENST00000360270.7	MSN	ENSG00000147065	moesin Source HGNC Symbol Acc HGNC 7373
D11	UPFH1125930	ENST00000648963.1	MYD88	ENSG00000172936	MYD88, innate immune signal transduction adaptor Source HGNC Symbol Acc HGNC 7562
D12	UPFH1132916	ENST00000222823.9	NOD1	ENSG00000106100	nucleotide binding oligomerization domain containing 1 Source HGNC Symbol Acc HGNC 16390
E01	UPFH1132613	ENST00000563924.6	PECAM1	ENSG00000261371	platelet and endothelial cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 8823
E02	UPFH0592888	ENST00000486866.1	PIP5K1A	ENSG00000143398	phosphatidylinositol-4-phosphate 5-kinase type 1 alpha Source HGNC Symbol Acc HGNC 8994
E03	UPFH0464083	ENST00000466600.1	PLA2G4A	ENSG00000116711	phospholipase A2 group IVA Source HGNC Symbol Acc HGNC 9035
E04	UPFH0430356	ENST00000375108.4	PLA2G5	ENSG00000127472	phospholipase A2 group V Source HGNC Symbol Acc HGNC 9038
E05	UPFH0135916	ENST00000446289.1	PLD1	ENSG00000075651	phospholipase D1 Source HGNC Symbol Acc HGNC 9067
E06	UPFH0141904	ENST00000575246.6	PLD2	ENSG00000129219	phospholipase D2 Source HGNC Symbol Acc HGNC 9068
E07	UPFH0050276	ENST00000306156.8	PRKCE	ENSG00000171132	protein kinase C epsilon Source HGNC Symbol Acc HGNC 9401
E08	UPFH0560146	ENST00000394236.8	PROS1	ENSG00000184500	protein S Source HGNC Symbol Acc HGNC 9456
E09	UPFH1132982	ENST00000371953.8	PTEN	ENSG00000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
E10	UPFH0283901	ENST00000273047.9	RAB5A	ENSG00000144566	RAB5A, member RAS oncogene family Source HGNC Symbol Acc HGNC 9783
E11	UPFH0173909	ENST00000482525.5	RAB7A	ENSG00000075785	RAB7A, member RAS oncogene family Source HGNC Symbol Acc HGNC 9788
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	UPFH0227635	ENST00000436179.1	RALA	ENSG00000006451	RAS like proto-oncogene A Source HGNC Symbol Acc HGNC 9839
F03	UPFH0022715	ENST00000431732.5	RALB	ENSG00000144118	RAS like proto-oncogene B Source HGNC Symbol Acc HGNC 9840
F04	UPFH0000496	ENST00000495953.2	RAPGEF3	ENSG00000079337	Rap guanine nucleotide exchange factor 3 Source HGNC Symbol Acc HGNC 16629
F05	UPFH1132657	ENST00000445425.4	RHOA	ENSG00000067560	ras homolog family member A Source HGNC Symbol Acc HGNC 667
F06	UPFH0418755	ENST00000538291.5	SCARB1	ENSG00000073060	scavenger receptor class B member 1 Source HGNC Symbol Acc HGNC 1664
F07	UPFH0384736	ENST00000223095.4	SERPINE1	ENSG00000106366	serpin family E member 1 Source HGNC Symbol Acc HGNC 8583
F08	UPFH1132678	ENST00000372292.8	SFTPD	ENSG00000133661	surfactant protein D Source HGNC Symbol Acc HGNC 10803
F09	UPFH0048699	ENST00000344754.5	SIGLEC1	ENSG00000088827	sialic acid binding Ig like lectin 1 Source HGNC Symbol Acc HGNC 11127
F10	UPFH0070848	ENST00000426296.1	SIGLEC11	ENSG00000161640	sialic acid binding Ig like lectin 11 Source HGNC Symbol Acc HGNC 15622

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0550897	ENST00000562014.5	SIRPB1	ENSG00000101307	signal regulatory protein beta 1 Source HGNC Symbol Acc HGNC 15928
F12	UPFH0182774	ENST00000388887.7	STAB2	ENSG00000136011	stabilin 2 Source HGNC Symbol Acc HGNC 18629
G01	UPFH0352346	ENST00000512195.5	STX18	ENSG00000168818	syntaxin 18 Source HGNC Symbol Acc HGNC 15942
G02	UPFH0221786	ENST00000375751.8	SYK	ENSG00000165025	spleen associated tyrosine kinase Source HGNC Symbol Acc HGNC 11491
G03	UPFH1132723	ENST00000361475.7	TGM2	ENSG00000198959	transglutaminase 2 Source HGNC Symbol Acc HGNC 11778
G04	UPFH1132848	ENST00000248244.5	TICAM1	ENSG00000127666	toll like receptor adaptor molecule 1 Source NCBI gene Acc 148022
G05	UPFH0561110	ENST00000296795.7	TLR3	ENSG00000164342	toll like receptor 3 Source HGNC Symbol Acc HGNC 11849
G06	UPFH1172915	ENST00000360658.2	TLR9	ENSG00000239732	toll like receptor 9 Source HGNC Symbol Acc HGNC 15633
G07	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G08	UPFH1132852	ENST00000544862.5	TNFSF11	ENSG00000120659	TNF superfamily member 11 Source HGNC Symbol Acc HGNC 11926
G09	UPFH0443351	ENST00000460621.6	VAMP7	ENSG00000124333	vesicle associated membrane protein 7 Source HGNC Symbol Acc HGNC 11486
G10	UPFH0537533	ENST00000596764.5	VAV1	ENSG00000141968	vav guanine nucleotide exchange factor 1 Source HGNC Symbol Acc HGNC 12657
G11	UPFH0159424	ENST00000376701.4	WAS	ENSG00000015285	Wiskott-Aldrich syndrome Source HGNC Symbol Acc HGNC 12731
G12	UPFH0355989	ENST00000264634.8	WNT5A	ENSG00000114251	Wnt family member 5A Source HGNC Symbol Acc HGNC 12784
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.

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](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

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