

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

## Human Interferons & Receptors

Cat. no. 249950 SBHS-064ZR

For study focus gene expression analysis

### Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

### Panel layout (Rotor-Gene): QuantiNova LNA 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 PCR System 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	ADAR	CNTFR	CRLF2	CSF2RA	CSF3R	CXCL10	EBI3	F3	IFI16	IFI27	IFI30	IFI35
B	IFI44	IFI44L	IFI6	IFIH1	IFIT1	IFIT2	IFIT3	IFITM1	IFITM2	IFNA1	IFNA14	IFNA16
C	IFNA2	IFNA21	IFNA4	IFNA5	IFNA6	IFNA7	IFNA8	IFNAR1	IFNAR2	IFNB1	IFNE	IFNG
D	IFNGR1	IFNGR2	IFNK	IFNW1	IFRD1	IFRD2	IL10RA	IL10RB	IL11RA	IL12B	IL13RA1	IL15
E	IL20RA	IL20RB	IL21R	IL22RA2	IFNL2	IFNLR1	IFNL1	IL2RB	IL2RG	IL31RA	IL3RA	IL4R
F	IL5RA	IL6	IL6R	IL7R	IL9R	IRF1	IRF2	IRF2BP1	IRF3	IRF4	IRF5	IRF6
G	IRF7	IRF8	IRGM	ISG15	LEPR	MPL	MX1	OAS1	PSME1	PYHIN1	SP110	TTN
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

## Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0422508	ENST00000647597.1	ADAR	ENSG00000160710	adenosine deaminase, RNA specific Source HGNC Symbol Acc HGNC 225
A02	SBH0562603	ENST00000610543.4	CNTFR	ENSG00000122756	ciliary neurotrophic factor receptor Source HGNC Symbol Acc HGNC 2170
A03	SBH0118945	ENST00000467626.6	CRLF2	ENSG00000205755	cytokine receptor like factor 2 Source HGNC Symbol Acc HGNC 14281
A04	SBH0262533	ENST00000432318.8	CSF2RA	ENSG00000198223	colony stimulating factor 2 receptor alpha subunit Source HGNC Symbol Acc HGNC 2435
A05	SBH0129751	ENST00000464365.2	CSF3R	ENSG00000119535	colony stimulating factor 3 receptor Source HGNC Symbol Acc HGNC 2439
A06	SBH1219927	ENST00000306602.3	CXCL10	ENSG00000169245	C-X-C motif chemokine ligand 10 Source HGNC Symbol Acc HGNC 10637
A07	SBH0437108	ENST00000221847.6	EBI3	ENSG00000105246	Epstein-Barr virus induced 3 Source HGNC Symbol Acc HGNC 3129
A08	SBH1219990	ENST00000334047.12	F3	ENSG00000117525	coagulation factor III, tissue factor Source HGNC Symbol Acc HGNC 3541
A09	SBH0435227	ENST00000368131.8	IFI16	ENSG00000163565	interferon gamma inducible protein 16 Source HGNC Symbol Acc HGNC 5395
A10	SBH0560386	ENST00000621160.4	IFI27	ENSG00000165949	interferon alpha inducible protein 27 Source HGNC Symbol Acc HGNC 5397
A11	SBH1220080	ENST00000407280.4	IFI30	ENSG00000216490	IFI30, lysosomal thiol reductase Source HGNC Symbol Acc HGNC 5398
A12	SBH0555322	ENST00000438323.2	IFI35	ENSG00000068079	interferon induced protein 35 Source HGNC Symbol Acc HGNC 5399
B01	SBH0130140	ENST00000495254.5	IFI44	ENSG00000137965	interferon induced protein 44 Source HGNC Symbol Acc HGNC 16938
B02	SBH0300944	ENST00000486882.5	IFI44L	ENSG00000137959	interferon induced protein 44 like Source HGNC Symbol Acc HGNC 17817
B03	SBH0664680	ENST00000362020.4	IFI6	ENSG00000126709	interferon alpha inducible protein 6 Source HGNC Symbol Acc HGNC 4054
B04	SBH1220081	ENST00000263642.2	IFIH1	ENSG00000115267	interferon induced with helicase C domain 1 Source HGNC Symbol Acc HGNC 18873
B05	SBH1220082	ENST00000371804.4	IFIT1	ENSG00000185745	interferon induced protein with tetratricopeptide repeats 1 Source HGNC Symbol Acc HGNC 5407
B06	SBH1220083	ENST00000611722.1	IFIT2	ENSG00000119922	interferon induced protein with tetratricopeptide repeats 2 Source HGNC Symbol Acc HGNC 5409
B07	SBH1220084	ENST00000371818.9	IFIT3	ENSG00000119917	interferon induced protein with tetratricopeptide repeats 3 Source HGNC Symbol Acc HGNC 5411
B08	SBH1220085	ENST00000408968.4	IFITM1	ENSG00000185885	interferon induced transmembrane protein 1 Source HGNC Symbol Acc HGNC 5412
B09	SBH0343168	ENST00000399817.8	IFITM2	ENSG00000185201	interferon induced transmembrane protein 2 Source HGNC Symbol Acc HGNC 5413
B10	SBH0388912	ENST00000276927.2	IFNA1	ENSG00000197919	interferon alpha 1 Source HGNC Symbol Acc HGNC 5417
B11	SBH0102040	ENST00000380222.3	IFNA14	ENSG00000228083	interferon alpha 14 Source HGNC Symbol Acc HGNC 5420
B12	SBH0394215	ENST00000380216.1	IFNA16	ENSG00000147885	interferon alpha 16 Source HGNC Symbol Acc HGNC 5421
C01	SBH0359836	ENST00000380206.3	IFNA2	ENSG00000188379	interferon alpha 2 Source HGNC Symbol Acc HGNC 5423
C02	SBH0036016	ENST00000380225.1	IFNA21	ENSG00000137080	interferon alpha 21 Source HGNC Symbol Acc HGNC 5424
C03	SBH0303037	ENST00000421715.2	IFNA4	ENSG00000236637	interferon alpha 4 Source HGNC Symbol Acc HGNC 5425
C04	SBH0303029	ENST00000610521.1	IFNA5	ENSG00000147873	interferon alpha 5 Source HGNC Symbol Acc HGNC 5426
C05	SBH0196731	ENST00000259555.5	IFNA6	ENSG00000120235	interferon alpha 6 Source HGNC Symbol Acc HGNC 5427
C06	SBH0322222	ENST00000239347.3	IFNA7	ENSG00000214042	interferon alpha 7 Source HGNC Symbol Acc HGNC 5428
C07	SBH0602373	ENST00000380205.1	IFNA8	ENSG00000120242	interferon alpha 8 Source HGNC Symbol Acc HGNC 5429
C08	SBH1220087	ENST00000442071.2	IFNAR1	ENSG00000142166	interferon alpha and beta receptor subunit 1 Source HGNC Symbol Acc HGNC 5432
C09	SBH1220088	ENST00000404220.7	IFNAR2	ENSG00000159110	interferon alpha and beta receptor subunit 2 Source HGNC Symbol Acc HGNC 5433
C10	SBH1220089	ENST00000380232.4	IFNB1	ENSG00000171855	interferon beta 1 Source HGNC Symbol Acc HGNC 5434
		ENST00000448		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0587771	696.4	IFNE	184995	interferon epsilon Source HGNC Symbol Acc HGNC 18163
C12	SBH1220090	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D01	SBH0279641	ENST00000367739.8	IFNGR1	ENSG00000027697	interferon gamma receptor 1 Source HGNC Symbol Acc HGNC 5439
D02	SBH0074692	ENST00000290219.10	IFNGR2	ENSG00000159128	interferon gamma receptor 2 Source HGNC Symbol Acc HGNC 5440
D03	SBH0531681	ENST00000276943.2	IFNK	ENSG00000147896	interferon kappa Source HGNC Symbol Acc HGNC 21714
D04	SBH0296679	ENST00000380229.3	IFNW1	ENSG00000177047	interferon omega 1 Source HGNC Symbol Acc HGNC 5448
D05	SBH0304341	ENST00000535603.5	IFRD1	ENSG00000006652	interferon related developmental regulator 1 Source HGNC Symbol Acc HGNC 5456
D06	SBH0386150	ENST00000492387.1	IFRD2	ENSG00000214706	interferon related developmental regulator 2 Source HGNC Symbol Acc HGNC 5457
D07	SBH0388417	ENST00000227752.7	IL10RA	ENSG00000110324	interleukin 10 receptor subunit alpha Source HGNC Symbol Acc HGNC 5964
D08	SBH1220096	ENST00000290200.7	IL10RB	ENSG00000243646	interleukin 10 receptor subunit beta Source HGNC Symbol Acc HGNC 5965
D09	SBH0577906	ENST00000602473.5	IL11RA	ENSG00000137070	interleukin 11 receptor subunit alpha Source HGNC Symbol Acc HGNC 5967
D10	SBH1220099	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
D11	SBH0405599	ENST00000371666.8	IL13RA1	ENSG00000131724	interleukin 13 receptor subunit alpha 1 Source HGNC Symbol Acc HGNC 5974
D12	SBH1220101	ENST00000296545.11	IL15	ENSG00000164136	interleukin 15 Source HGNC Symbol Acc HGNC 5977
E01	SBH0144524	ENST00000635289.1	IL20RA	ENSG00000016402	interleukin 20 receptor subunit alpha Source HGNC Symbol Acc HGNC 6003
E02	SBH0148614	ENST00000469964.5	IL20RB	ENSG00000174564	interleukin 20 receptor subunit beta Source HGNC Symbol Acc HGNC 6004
E03	SBH0140850	ENST00000337929.8	IL21R	ENSG00000103522	interleukin 21 receptor Source HGNC Symbol Acc HGNC 6006
E04	SBH0476398	ENST00000296980.6	IL22RA2	ENSG00000164485	interleukin 22 receptor subunit alpha 2 Source HGNC Symbol Acc HGNC 14901
E05	SBH0301208	ENST00000331982.5	IFNL2	ENSG00000183709	interferon lambda 2 Source HGNC Symbol Acc HGNC 18364
E06	SBH0357251	ENST00000374419.1	IFNLR1	ENSG00000185436	interferon lambda receptor 1 Source HGNC Symbol Acc HGNC 18584
E07	SBH0004792	ENST00000333625.3	IFNL1	ENSG00000182393	interferon lambda 1 Source HGNC Symbol Acc HGNC 18363
E08	SBH0653267	ENST00000453962.5	IL2RB	ENSG00000100385	interleukin 2 receptor subunit beta Source HGNC Symbol Acc HGNC 6009
E09	SBH0005272	ENST00000487883.1	IL2RG	ENSG00000147168	interleukin 2 receptor subunit gamma Source HGNC Symbol Acc HGNC 6010
E10	SBH0176257	ENST00000652347.1	IL31RA	ENSG00000164509	interleukin 31 receptor A Source HGNC Symbol Acc HGNC 18969
E11	SBH0081742	ENST00000331035.9	IL3RA	ENSG00000185291	interleukin 3 receptor subunit alpha Source HGNC Symbol Acc HGNC 6012
E12	SBH0492526	ENST00000565915.5	IL4R	ENSG00000077238	interleukin 4 receptor Source HGNC Symbol Acc HGNC 6015
F01	SBH0433117	ENST00000256452.7	IL5RA	ENSG00000091181	interleukin 5 receptor subunit alpha Source HGNC Symbol Acc HGNC 6017
F02	SBH1220111	ENST00000401630.7	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
F03	SBH1220112	ENST00000368485.8	IL6R	ENSG00000160712	interleukin 6 receptor Source HGNC Symbol Acc HGNC 6019
F04	SBH0481782	ENST00000514217.5	IL7R	ENSG00000168685	interleukin 7 receptor Source HGNC Symbol Acc HGNC 6024
F05	SBH0427711	ENST00000244174.10	IL9R	ENSG00000124334	interleukin 9 receptor Source HGNC Symbol Acc HGNC 6030
F06	SBH1220122	ENST00000245414.9	IRF1	ENSG00000125347	interferon regulatory factor 1 Source HGNC Symbol Acc HGNC 6116
F07	SBH1220123	ENST00000393593.8	IRF2	ENSG00000168310	interferon regulatory factor 2 Source HGNC Symbol Acc HGNC 6117
F08	SBH0304926	ENST00000302165.5	IRF2BP1	ENSG00000170604	interferon regulatory factor 2 binding protein 1 Source HGNC Symbol Acc HGNC 21728
F09	SBH1220124	ENST00000601809.5	IRF3	ENSG00000126456	interferon regulatory factor 3 Source HGNC Symbol Acc HGNC 6118
F10	SBH0409342	ENST00000380956.9	IRF4	ENSG00000137265	interferon regulatory factor 4 Source HGNC Symbol Acc HGNC 6119

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220125	ENST00000357234.10	IRF5	ENSG00000128604	interferon regulatory factor 5 Source HGNC Symbol Acc HGNC 6120
F12	SBH0058169	ENST00000367021.8	IRF6	ENSG00000117595	interferon regulatory factor 6 Source HGNC Symbol Acc HGNC 6121
G01	SBH0251148	ENST00000397574.7	IRF7	ENSG00000185507	interferon regulatory factor 7 Source HGNC Symbol Acc HGNC 6122
G02	SBH0216986	ENST00000268638.10	IRF8	ENSG00000140968	interferon regulatory factor 8 Source HGNC Symbol Acc HGNC 5358
G03	SBH1220127	ENST00000522154.1	IRGM	ENSG00000237693	immunity related GTPase M Source HGNC Symbol Acc HGNC 29597
G04	SBH0407556	ENST00000649529.1	ISG15	ENSG00000187608	ISG15 ubiquitin-like modifier Source HGNC Symbol Acc HGNC 4053
G05	SBH0111165	ENST00000349533.10	LEPR	ENSG00000116678	leptin receptor Source HGNC Symbol Acc HGNC 6554
G06	SBH0641426	ENST00000413998.7	MPL	ENSG00000117400	MPL proto-oncogene, thrombopoietin receptor Source HGNC Symbol Acc HGNC 7217
G07	SBH1220232	ENST00000288383.10	MX1	ENSG00000157601	MX dynamin like GTPase 1 Source HGNC Symbol Acc HGNC 7532
G08	SBH1220283	ENST00000452357.6	OAS1	ENSG00000089127	2'-5'-oligoadenylate synthetase 1 Source HGNC Symbol Acc HGNC 8086
G09	SBH0218051	ENST00000559123.5	PSME1	ENSG00000092010	proteasome activator subunit 1 Source HGNC Symbol Acc HGNC 9568
G10	SBH0142263	ENST00000368135.4	PYHIN1	ENSG00000163564	pyrin and HIN domain family member 1 Source HGNC Symbol Acc HGNC 28894
G11	SBH0207022	ENST00000392048.7	SP110	ENSG00000135899	SP110 nuclear body protein Source HGNC Symbol Acc HGNC 5401
G12	SBH1220495	ENST00000615779.5	TTN	ENSG00000155657	titin Source HGNC Symbol Acc HGNC 12403
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control



## Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 $\mu$ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ l QN ROX Reference Dye, 1.9 ml Water	208052

\*Larger kit sizes available.

The QuantiNova LNA 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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