

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

Rat Inflammatory Response & Autoimmunity

Cat. no. 249950 SBRN-077ZR

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 for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Bcl6	C3	C3ar1	C4a	Cd1	Cd11	Ccl12	Cd17	Cd19	Cd2	Cd20	Cd21
B	Ccl22	Ccl24	Ccl25	Ccl3	Ccl4	Ccl5	Ccl6	Ccl7	Ccr1	Ccr5	Ccr3	Ccr4
C	Ccr7	Cd14	Cd40	Cd40lg	Cebpb	Crp	Csf1	Cxcl1	Cxcl10	Cxcl11	Cxcl2	Cxcl3
D	Cxcl6	Cxcl9	Cxcr2	Cxcr4	Foslg	Fos	Ifng	Il10	Il10rb	Il17a	Il18	Il1a
E	Il1b	Il1r1	Il1rap	Il1rn	Il22	Il23a	Il23r	Il5	Il6	Il6r	Il7	Cxcr1
F	Il9	Ilgb2	Il15	Lta	LOC1036943 81	Selp	Myd88	Nfkb1	Nos2	AABR0703175 6.1	Pigs2	Ripk2
G	Sele	Tirap	Tlr1	Tlr2	Tlr3	Tlr4	Tlr5	Tlr6	Tlr7	LOC1036943 80	Tnfrsf14	Tollip
H	Actb	B2m	Hprt1	LdhA	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBR1158306	ENSRNOT0000002522.4	Bcl6	ENSRNOG0000001843	BCL6, transcription repressor Source RGD Symbol Acc 1309345
A02	SBR1177146	ENSRNOT00000073042.3	C3	ENSRNOG00000046834	complement C3 Source RGD Symbol Acc 2232
A03	SBR1098290	ENSRNOT00000012216.3	C3ar1	ENSRNOG00000092111	complement C3a receptor 1 Source RGD Symbol Acc 620537
A04	SBR1182212	ENSRNOT00000072377.2	C4a	ENSRNOG00000047657	complement C4A Source RGD Symbol Acc 620005
A05	SBR1150104	ENSRNOT00000031360.3	Ccl1	ENSRNOG00000021851	C-C motif chemokine ligand 1 Source RGD Symbol Acc 1586495
A06	SBR1164698	ENSRNOT00000009756.5	Ccl11	ENSRNOG0000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
A07	SBR1129555	ENSRNOT00000031626.5	Ccl12	ENSRNOG00000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A08	SBR1197042	ENSRNOT00000021842.2	Ccl17	ENSRNOG00000016278	C-C motif chemokine ligand 17 Source RGD Symbol Acc 619924
A09	SBR1200945	ENSRNOT00000020982.5	Ccl19	ENSRNOG00000015668	C-C motif chemokine ligand 19 Source RGD Symbol Acc 1310336
A10	SBR1165601	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
A11	SBR1163271	ENSRNOT00000021730.3	Ccl20	ENSRNOG00000015992	C-C motif chemokine ligand 20 Source RGD Symbol Acc 3646
A12	SBR1161847	ENSRNOT00000023951.6	Ccl21	ENSRNOG00000034290	C-C motif chemokine ligand 21 Source RGD Symbol Acc 1311996
B01	SBR1108415	ENSRNOT00000022167.3	Ccl22	ENSRNOG00000016535	C-C motif chemokine ligand 22 Source RGD Symbol Acc 619933
B02	SBR1128762	ENSRNOT00000045157.3	Ccl24	ENSRNOG00000031162	C-C motif chemokine ligand 24 Source RGD Symbol Acc 1310245
B03	SBR1105580	ENSRNOT00000037059.4	Ccl25	ENSRNOG00000028531	C-C motif chemokine ligand 25 Source RGD Symbol Acc 1305530
B04	SBR1146662	ENSRNOT00000015139.3	Ccl3	ENSRNOG0000001205	C-C motif chemokine ligand 3 Source RGD Symbol Acc 3647
B05	SBR1202700	ENSRNOT00000015199.3	Ccl4	ENSRNOG00000011406	C-C motif chemokine ligand 4 Source RGD Symbol Acc 620441
B06	SBR1094349	ENSRNOT00000014865.6	Ccl5	ENSRNOG00000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B07	SBR1162782	ENSRNOT00000045867.3	Ccl6	ENSRNOG00000030021	chemokine (C-C motif) ligand 6 Source RGD Symbol Acc 1303200
B08	SBR1105598	ENSRNOT00000000256.4	Ccl7	ENSRNOG00000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
B09	SBR1135029	ENSRNOT00000008772.4	Ccr1	ENSRNOG00000006715	C-C motif chemokine receptor 1 Source RGD Symbol Acc 708446
B10	SBR1129600	ENSRNOT00000082774.1	Ccr5	ENSRNOG00000049115	C-C motif chemokine receptor 5 Source RGD Symbol Acc 620596
B11	SBR1110610	ENSRNOT00000008809.4	Ccr3	ENSRNOG00000006736	C-C motif chemokine receptor 3 Source RGD Symbol Acc 620593
B12	SBR1113127	ENSRNOT00000013705.3	Ccr4	ENSRNOG00000010315	C-C motif chemokine receptor 4 Source RGD Symbol Acc 620594
C01	SBR1211640	ENSRNOT00000014163.7	Ccr7	ENSRNOG00000010665	C-C motif chemokine receptor 7 Source RGD Symbol Acc 735151
C02	SBR1200939	ENSRNOT00000023977.6	Cd14	ENSRNOG00000017819	CD14 molecule Source RGD Symbol Acc 620588
C03	SBR1146998	ENSRNOT00000055148.4	Cd40	ENSRNOG00000018488	CD40 molecule Source RGD Symbol Acc 619830
C04	SBR1110042	ENSRNOT00000001162.4	Cd40lg	ENSRNOG00000000871	CD40 ligand Source RGD Symbol Acc 708418
C05	SBR1114232	ENSRNOT00000083876.1	Cebpb	ENSRNOG00000057347	CCAAT/enhancer binding protein beta Source RGD Symbol Acc 2327
C06	SBR1169897	ENSRNOT00000000058.6	Crp	ENSRNOG00000000053	C-reactive protein Source RGD Symbol Acc 2411
C07	SBR1099651	ENSRNOT00000025222.6	Csf1	ENSRNOG00000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
C08	SBR1198580	ENSRNOT00000003778.3	Cxcl1	ENSRNOG00000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
C09	SBR1153857	ENSRNOT00000003075.7	Cxcl10	ENSRNOG00000022256	C-X-C motif chemokine ligand 10 Source RGD Symbol Acc 620209
C10	SBR1210202	ENSRNOT00000031667.4	Cxcl11	ENSRNOG00000022298	C-X-C motif chemokine ligand 11 Source RGD Symbol Acc 727827
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1132150	003745.6	Cxcl2	000002792	C-X-C motif chemokine ligand 2 Source RGD Symbol Acc 70069
C12	SBR1116913	ENSRNOT00000034090.3	Cxcl3	ENSRNOG0000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
D01	SBR1137423	ENSRNOT00000003823.3	Cxcl6	ENSRNOG0000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
D02	SBR1174753	ENSRNOT00000003082.7	Cxcl9	ENSRNOG0000022242	C-X-C motif chemokine ligand 9 Source RGD Symbol Acc 628798
D03	SBR1118473	ENSRNOT00000081711.1	Cxcr2	ENSRNOG0000014269	C-X-C motif chemokine receptor 2 Source RGD Symbol Acc 2906
D04	SBR1129817	ENSRNOT00000005143.6	Cxcr4	ENSRNOG0000003866	C-X-C motif chemokine receptor 4 Source RGD Symbol Acc 620465
D05	SBR1097457	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
D06	SBR1110295	ENSRNOT00000010712.3	Fos	ENSRNOG0000008015	Fos proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2626
D07	SBR1108917	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
D08	SBR1123238	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
D09	SBR1173195	ENSRNOT00000061345.3	Il10rb	ENSRNOG0000028638	interleukin 10 receptor subunit beta Source RGD Symbol Acc 1560373
D10	SBR1131301	ENSRNOT00000016664.4	Il17a	ENSRNOG0000012467	interleukin 17A Source RGD Symbol Acc 2888
D11	SBR1183288	ENSRNOT00000013093.6	Il18	ENSRNOG0000009848	interleukin 18 Source RGD Symbol Acc 2889
D12	SBR1106125	ENSRNOT00000006113.8	Il1a	ENSRNOG0000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
E01	SBR1196387	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
E02	SBR1113457	ENSRNOT00000019673.4	Il1r1	ENSRNOG0000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
E03	SBR1167605	ENSRNOT00000043498.6	Il1rap	ENSRNOG0000001928	interleukin 1 receptor accessory protein Source RGD Symbol Acc 2893
E04	SBR1111330	ENSRNOT00000007949.6	Il1rn	ENSRNOG0000005871	interleukin 1 receptor antagonist Source RGD Symbol Acc 621159
E05	SBR1099298	ENSRNOT00000009776.4	Il22	ENSRNOG0000007365	interleukin 22 Source RGD Symbol Acc 1561292
E06	SBR1176508	ENSRNOT00000004363.3	Il23a	ENSRNOG0000003254	interleukin 23 subunit alpha Source RGD Symbol Acc 620873
E07	SBR1118555	ENSRNOT00000010151.5	Il23r	ENSRNOG0000007544	interleukin 23 receptor Source RGD Symbol Acc 1586368
E08	SBR1179555	ENSRNOT00000010729.4	Il5	ENSRNOG0000008111	interleukin 5 Source RGD Symbol Acc 2900
E09	SBR1156877	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
E10	SBR1135762	ENSRNOT00000028234.7	Il6r	ENSRNOG0000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
E11	SBR1129975	ENSRNOT00000016091.7	Il7	ENSRNOG0000011973	interleukin 7 Source RGD Symbol Acc 2904
E12	SBR1128990	ENSRNOT00000090868.1	Cxcr1	ENSRNOG0000048239	C-X-C motif chemokine receptor 1 Source RGD Symbol Acc 2905
F01	SBR1140896	ENSRNOT00000016187.2	Il9	ENSRNOG0000012131	interleukin 9 Source RGD Symbol Acc 620049
F02	SBR1182978	ENSRNOT00000001639.6	Itgb2	ENSRNOG0000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
F03	SBR1188273	ENSRNOT00000004590.6	Il15	ENSRNOG0000003439	interleukin 15 Source RGD Symbol Acc 2887
F04	SBR1181153	ENSRNOT00000088936.1	Lta	ENSRNOG0000000838	lymphotoxin alpha Source RGD Symbol Acc 3020
F05	SBR1203426	ENSRNOT00000089411.1	LOC103694381	ENSRNOG0000058566	lymphotoxin-beta Source RGD Symbol Acc 9083628
F06	SBR1174453	ENSRNOT00000076879.2	Selp	ENSRNOG0000002794	selectin P Source RGD Symbol Acc 3656
F07	SBR1185632	ENSRNOT00000018341.5	Myd88	ENSRNOG0000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
F08	SBR1111134	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
F09	SBR1197401	ENSRNOT00000073138.2	Nos2	ENSRNOG0000057443	similar to Nitric oxide synthase, inducible (NOS type II) (Inducible NO synthase) (Inducible NOS) (iNOS) Source RGD Symbol Acc 1598227
F10	SBR1127733	ENSRNOT00000044287.4	AABR07031756.1	ENSRNOG0000014096	nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1122148	ENSRNOT00000003567.4	Ptgs2	ENSRNOG0000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F12	SBR1122908	ENSRNOT00000012963.5	Ripk2	ENSRNOG0000009389	receptor-interacting serine-threonine kinase 2 Source RGD Symbol Acc 1309167
G01	SBR1131931	ENSRNOT00000076757.1	Sele	ENSRNOG0000002723	selectin E Source RGD Symbol Acc 3654
G02	SBR1108614	ENSRNOT00000038312.5	Tirap	ENSRNOG0000021420	TIR domain containing adaptor protein Source RGD Symbol Acc 1595496
G03	SBR1137224	ENSRNOT00000059124.3	Tlr1	ENSRNOG0000038722	toll-like receptor 1 Source MGI Symbol Acc MGI 1341295
G04	SBR1126190	ENSRNOT00000013025.4	Tlr2	ENSRNOG0000009822	toll-like receptor 2 Source RGD Symbol Acc 735138
G05	SBR1119614	ENSRNOT00000035781.5	Tlr3	ENSRNOG0000021726	toll-like receptor 3 Source RGD Symbol Acc 735171
G06	SBR1180108	ENSRNOT00000014020.3	Tlr4	ENSRNOG0000010522	toll-like receptor 4 Source RGD Symbol Acc 3870
G07	SBR1140816	ENSRNOT00000004821.4	Tlr5	ENSRNOG000002067	toll-like receptor 5 Source RGD Symbol Acc 631351
G08	SBR1133670	ENSRNOT00000002933.5	Tlr6	ENSRNOG0000002161	toll-like receptor 6 Source RGD Symbol Acc 1303030
G09	SBR1144425	ENSRNOT00000005620.6	Tlr7	ENSRNOG0000004249	toll-like receptor 7 Source RGD Symbol Acc 1563357
G10	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G11	SBR1099702	ENSRNOT00000074247.1	Tnfsf14	ENSRNOG0000047730	TNF superfamily member 14 Source RGD Symbol Acc 1588572
G12	SBR1187324	ENSRNOT00000046344.3	Tollip	ENSRNOG0000019861	toll interacting protein Source RGD Symbol Acc 1304676
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	SBR1218555	Sybr_RGDC	RGDC	Sybr_RGDC	Rat 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 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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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.

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