

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

Rat Th17 Response

Cat. no. 249950 SBRN-073ZR

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	Ccl1	Ccl2	Ccl20	Ccl22	Ccl7	Ccr7	Ccr4	Ccr6	Cd2	Cd28	Cd34	Cd4
B	Cd40lg	Cd8a	Cebpb	Clec7a	Csf2	Csf3	Cx3cl1	Cxcl1	Cxcl12	Cxcl2	Cxcl6	Foxp3
C	Gata3	Icam1	Icos	Ifng	Il10	Il12b	Il12rb1	Il12b2	Il13	Il15	Il17a	Il17b
D	Il17c	Il17f	Il17ra	Il17rb	Il17rc	Il17re	Il18	Il1b	Il1r1	Il2	Il21	Il22
E	Il23a	Il23r	Il25	Il27	Il3	Il4	Il5	Il6	Il6r	Il9r	Il9	Irf4
F	Isg20	Jak1	Jak2	Mmp3	Mmp9	Myd88	Nfatc2	NfkB1	Rora	Rorc	Runx1	S1pr1
G	Socs1	Socs3	Stat3	Stat1	Stat5a	Stat6	Syk	Tbx21	Tgfb1	Tlr4	LOC1036943 80	Traf6
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	SBR1150104	ENSRNOT00000031360.3	Ccl1	ENSRNOG0000021851	C-C motif chemokine ligand 1 Source RGD Symbol Acc 1586495
A02	SBR1165601	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
A03	SBR1163271	ENSRNOT00000021730.3	Ccl20	ENSRNOG0000015992	C-C motif chemokine ligand 20 Source RGD Symbol Acc 3646
A04	SBR1108415	ENSRNOT00000022167.3	Ccl22	ENSRNOG0000016535	C-C motif chemokine ligand 22 Source RGD Symbol Acc 619933
A05	SBR1105598	ENSRNOT00000000256.4	Ccl7	ENSRNOG0000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
A06	SBR1211640	ENSRNOT00000014163.7	Ccr7	ENSRNOG0000010665	C-C motif chemokine receptor 7 Source RGD Symbol Acc 735151
A07	SBR1113127	ENSRNOT00000013705.3	Ccr4	ENSRNOG0000010315	C-C motif chemokine receptor 4 Source RGD Symbol Acc 620594
A08	SBR1172047	ENSRNOT00000017302.6	Ccr6	ENSRNOG0000012964	C-C motif chemokine receptor 6 Source RGD Symbol Acc 1308562
A09	SBR1114446	ENSRNOT00000021268.7	Cd2	ENSRNOG0000015821	Cd2 molecule Source RGD Symbol Acc 2297
A10	SBR1154388	ENSRNOT00000013701.3	Cd28	ENSRNOG0000010283	Cd28 molecule Source RGD Symbol Acc 2299
A11	SBR1211095	ENSRNOT00000057160.3	Cd34	ENSRNOG0000045558	CD34 molecule Source RGD Symbol Acc 1306863
A12	SBR1197766	ENSRNOT00000021915.2	Cd4	ENSRNOG0000016294	Cd4 molecule Source RGD Symbol Acc 2306
B01	SBR1110042	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
B02	SBR1107267	ENSRNOT00000009515.4	Cd8a	ENSRNOG0000007178	CD8a molecule Source RGD Symbol Acc 2316
B03	SBR1114232	ENSRNOT00000083876.1	Cebpb	ENSRNOG0000057347	CCAAT/enhancer binding protein beta Source RGD Symbol Acc 2327
B04	SBR1141014	ENSRNOT00000091552.1	Clec7a	ENSRNOG0000054251	C-type lectin domain containing 7A Source RGD Symbol Acc 1565140
B05	SBR1136894	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B06	SBR1124341	ENSRNOT00000011509.3	Csf3	ENSRNOG0000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B07	SBR1147286	ENSRNOT00000022128.5	Cx3cl1	ENSRNOG0000016326	C-X3-C motif chemokine ligand 1 Source RGD Symbol Acc 620458
B08	SBR1198580	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
B09	SBR1209894	ENSRNOT00000066670.3	Cxcl12	ENSRNOG0000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
B10	SBR1132150	ENSRNOT00000003745.6	Cxcl2	ENSRNOG0000002792	C-X-C motif chemokine ligand 2 Source RGD Symbol Acc 70069
B11	SBR1137423	ENSRNOT00000003823.3	Cxcl6	ENSRNOG0000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
B12	SBR1152159	ENSRNOT00000091146.1	Foxp3	ENSRNOG0000011702	forkhead box P3 Source RGD Symbol Acc 1562112
C01	SBR1158985	ENSRNOT00000026187.5	Gata3	ENSRNOG0000019336	GATA binding protein 3 Source RGD Symbol Acc 621250
C02	SBR1152534	ENSRNOT00000028066.5	Icam1	ENSRNOG0000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
C03	SBR1183072	ENSRNOT00000071226.2	Icos	ENSRNOG0000046196	inducible T-cell co-stimulator Source RGD Symbol Acc 620123
C04	SBR1108917	ENSRNOT00000009919.2	Iifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
C05	SBR1123238	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
C06	SBR1133771	ENSRNOT00000005898.6	Il12b	ENSRNOG0000004380	interleukin 12B Source RGD Symbol Acc 628704
C07	SBR1095339	ENSRNOT00000025977.6	Il12rb1	ENSRNOG0000019216	interleukin 12 receptor subunit beta 1 Source RGD Symbol Acc 620025
C08	SBR1214618	ENSRNOT00000009883.6	Il12rb2	ENSRNOG0000007270	interleukin 12 receptor subunit beta 2 Source RGD Symbol Acc 620026
C09	SBR1178777	ENSRNOT00000010121.2	Il13	ENSRNOG0000007652	interleukin 13 Source RGD Symbol Acc 68949
C10	SBR1188273	ENSRNOT00000004590.6	Il15	ENSRNOG0000003439	interleukin 15 Source RGD Symbol Acc 2887
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1131301	016664.4	Il17a	000012467	interleukin 17A Source RGD Symbol Acc 2888
C12	SBR1144269	ENSRNOT00000 026679.6	Il17b	ENSRNOG00 000019695	interleukin 17B Source RGD Symbol Acc 620614
D01	SBR1129757	ENSRNOT00000 017358.4	Il17c	ENSRNOG00 000013007	interleukin 17C Source RGD Symbol Acc 1582798
D02	SBR1096678	ENSRNOT00000 016717.5	Il17f	ENSRNOG00 000012509	interleukin 17F Source RGD Symbol Acc 1311398
D03	SBR1113530	ENSRNOT00000 014885.6	Il17ra	ENSRNOG00 000011153	interleukin 17 receptor A Source RGD Symbol Acc 1306559
D04	SBR1202587	ENSRNOT00000 020823.6	Il17rb	ENSRNOG00 000015498	interleukin 17 receptor B Source RGD Symbol Acc 1311392
D05	SBR1094805	ENSRNOT00000 037788.6	Il17rc	ENSRNOG00 000027376	interleukin 17 receptor C Source RGD Symbol Acc 1306392
D06	SBR1188288	ENSRNOT00000 056508.3	Il17re	ENSRNOG00 000009204	interleukin 17 receptor E Source RGD Symbol Acc 735148
D07	SBR1183288	ENSRNOT00000 013093.6	Il18	ENSRNOG00 000009848	interleukin 18 Source RGD Symbol Acc 2889
D08	SBR1196387	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D09	SBR1113457	ENSRNOT00000 019673.4	Il1r1	ENSRNOG00 000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D10	SBR1102170	ENSRNOT00000 023327.2	Il2	ENSRNOG00 000017348	interleukin 2 Source RGD Symbol Acc 620047
D11	SBR1166751	ENSRNOT00000 023348.4	Il21	ENSRNOG00 000017376	interleukin 21 Source RGD Symbol Acc 1307384
D12	SBR1099298	ENSRNOT00000 009776.4	Il22	ENSRNOG00 000007365	interleukin 22 Source RGD Symbol Acc 1561292
E01	SBR1176508	ENSRNOT00000 004363.3	Il23a	ENSRNOG00 000003254	interleukin 23 subunit alpha Source RGD Symbol Acc 620873
E02	SBR1118555	ENSRNOT00000 010151.5	Il23r	ENSRNOG00 000007544	interleukin 23 receptor Source RGD Symbol Acc 1586368
E03	SBR1215520	ENSRNOT00000 022563.4	Il25	ENSRNOG00 000016804	interleukin 25 Source RGD Symbol Acc 1561632
E04	SBR1210167	ENSRNOT00000 025950.5	Il27	ENSRNOG00 000019170	interleukin 27 Source RGD Symbol Acc 1561420
E05	SBR1198875	ENSRNOT00000 031762.1	Il3	ENSRNOG00 000026786	interleukin 3 Source RGD Symbol Acc 2897
E06	SBR1101847	ENSRNOT00000 010029.3	Il4	ENSRNOG00 000007624	interleukin 4 Source RGD Symbol Acc 2898
E07	SBR1179555	ENSRNOT00000 010729.4	Il5	ENSRNOG00 000008111	interleukin 5 Source RGD Symbol Acc 2900
E08	SBR1156877	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
E09	SBR1135762	ENSRNOT00000 028234.7	Il6r	ENSRNOG00 000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
E10	SBR1103000	ENSRNOT00000 028008.5	Il9r	ENSRNOG00 000020630	interleukin 9 receptor Source RGD Symbol Acc 2907
E11	SBR1140896	ENSRNOT00000 016187.2	Il9	ENSRNOG00 000012131	interleukin 9 Source RGD Symbol Acc 620049
E12	SBR1179446	ENSRNOT00000 088931.1	lrf4	ENSRNOG00 000061070	interferon regulatory factor 4 Source RGD Symbol Acc 1308050
F01	SBR1137683	ENSRNOT00000 085570.1	lsg20	ENSRNOG00 000054561	interferon stimulated exonuclease gene 20 Source RGD Symbol Acc 1306407
F02	SBR1138663	ENSRNOT00000 064542.1	Jak1	ENSRNOG00 000011157	Janus kinase 1 Source RGD Symbol Acc 69056
F03	SBR1191640	ENSRNOT00000 087011.1	Jak2	ENSRNOG00 000059968	Janus kinase 2 Source RGD Symbol Acc 2939
F04	SBR1166091	ENSRNOT00000 091704.1	Mmp3	ENSRNOG00 000032626	matrix metalloproteinase 3 Source RGD Symbol Acc 621317
F05	SBR1206750	ENSRNOT00000 023965.3	Mmp9	ENSRNOG00 000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
F06	SBR1185632	ENSRNOT00000 018341.5	Myd88	ENSRNOG00 000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
F07	SBR1164050	ENSRNOT00000 065615.1	Nfatc2	ENSRNOG00 000012175	nuclear factor of activated T-cells 2 Source RGD Symbol Acc 1307690
F08	SBR1111134	ENSRNOT00000 036838.4	Nfkb1	ENSRNOG00 000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
F09	SBR1117898	ENSRNOT00000 013142.7	Rora	ENSRNOG00 000027145	RAR-related orphan receptor A Source RGD Symbol Acc 1308419
F10	SBR1114012	ENSRNOT00000 067042.3	Rorc	ENSRNOG00 000020836	RAR-related orphan receptor C Source RGD Symbol Acc 1595785

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1123632	ENSRNOT0000002313.4	Runx1	ENSRNOG0000001704	runt-related transcription factor 1 Source RGD Symbol Acc 2283
F12	SBR1147227	ENSRNOT00000018318.3	S1pr1	ENSRNOG0000013683	sphingosine-1-phosphate receptor 1 Source RGD Symbol Acc 61958
G01	SBR1119822	ENSRNOT00000003458.3	Socs1	ENSRNOG0000002568	suppressor of cytokine signaling 1 Source RGD Symbol Acc 69272
G02	SBR1139184	ENSRNOT00000003940.3	Socs3	ENSRNOG0000002946	suppressor of cytokine signaling 3 Source RGD Symbol Acc 621087
G03	SBR1138417	ENSRNOT00000026760.4	Stat3	ENSRNOG0000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G04	SBR1199428	ENSRNOT00000080522.1	Stat1	ENSRNOG0000014079	signal transducer and activator of transcription 4 Source RGD Symbol Acc 1305747
G05	SBR1147063	ENSRNOT00000026662.3	Stat5a	ENSRNOG0000019496	signal transducer and activator of transcription 5A Source RGD Symbol Acc 3773
G06	SBR1207811	ENSRNOT00000085350.1	Stat6	ENSRNOG0000025023	signal transducer and activator of transcription 6 Source RGD Symbol Acc 1309063
G07	SBR1203865	ENSRNOT00000016942.6	Syk	ENSRNOG0000012160	spleen associated tyrosine kinase Source RGD Symbol Acc 3796
G08	SBR1137931	ENSRNOT00000012538.5	Tbx21	ENSRNOG0000009427	T-box 21 Source RGD Symbol Acc 1308264
G09	SBR1143485	ENSRNOT00000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G10	SBR1180108	ENSRNOT00000014020.3	Tlr4	ENSRNOG0000010522	toll-like receptor 4 Source RGD Symbol Acc 3870
G11	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G12	SBR1200335	ENSRNOT00000006148.5	Traf6	ENSRNOG0000004639	TNF receptor associated factor 6 Source RGD Symbol Acc 1306853
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 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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ 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.

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