

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

Rat Chemokines & Receptors

Cat. no. 249950 SBRN-022ZR

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	C5	C5ar1	Ackr2	Ccl11	Cd12	Cd17	Ccl19	Cd2	Cd20	Cd21	Cd22	Cd24
B	Cd25	Ccl28	Ccl3	Ccl4	Cd5	Ccl6	Cd7	Cd9	Ccr1	Ccr10	Ccr11	Xcr1
C	Ccr3	Ccr4	Ccr5	Ccr6	Ccr7	Ccr8	Ccr9	Ccr12	Cklf	Cmklr1	Cmtm2a	Cmtm3
D	Cmtm5	Cx3cl1	Cx3cr1	Cxd1	Cxd10	Cxd11	Cxd12	Cxd13	Cxd14	Cxd16	Cxd2	Cxd3
E	Cxcl6	Cxcl9	Cxcr2	Cxcr3	Cxcr4	Cxcr5	Cxcr6	Ackr3	Fgf2	Fpr1	Gpr17	Hif1a
F	Ifng	Il10	Il16	Il1b	Il4	Il6	Cxcr1	Itgad	Itgb2	Kdr	Mapk1	Mapk14
G	Pf4	Plau	Ppbp	Prkca	Sltf2	Tgfb1	Tlr2	Tlr4	LOC103694380	Tymp	Vegfa	Xcl1
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	SBR1149597	ENSRNOT00000092736.1	C5	ENSRNOG0000018899	complement C5 Source RGD Symbol Acc 2237
A02	SBR1123773	ENSRNOT00000073034.2	C5ar1	ENSRNOG0000047800	complement C5a receptor 1 Source RGD Symbol Acc 70553
A03	SBR1097097	ENSRNOT00000026343.4	Ackr2	ENSRNOG0000019472	atypical chemokine receptor 2 Source RGD Symbol Acc 620323
A04	SBR1164698	ENSRNOT00000009756.5	Ccl11	ENSRNOG0000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
A05	SBR1129555	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A06	SBR1197042	ENSRNOT00000021842.2	Ccl17	ENSRNOG0000016278	C-C motif chemokine ligand 17 Source RGD Symbol Acc 619924
A07	SBR1200945	ENSRNOT00000020982.5	Ccl19	ENSRNOG0000015668	C-C motif chemokine ligand 19 Source RGD Symbol Acc 1310336
A08	SBR1165601	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
A09	SBR1163271	ENSRNOT00000021730.3	Ccl20	ENSRNOG0000015992	C-C motif chemokine ligand 20 Source RGD Symbol Acc 3646
A10	SBR1161847	ENSRNOT00000023951.6	Ccl21	ENSRNOG0000034290	C-C motif chemokine ligand 21 Source RGD Symbol Acc 1311996
A11	SBR1108415	ENSRNOT00000022167.3	Ccl22	ENSRNOG0000016535	C-C motif chemokine ligand 22 Source RGD Symbol Acc 619933
A12	SBR1128762	ENSRNOT00000045157.3	Ccl24	ENSRNOG0000031162	C-C motif chemokine ligand 24 Source RGD Symbol Acc 1310245
B01	SBR1105580	ENSRNOT00000037059.4	Ccl25	ENSRNOG0000028531	C-C motif chemokine ligand 25 Source RGD Symbol Acc 1305530
B02	SBR1118870	ENSRNOT00000084486.1	Ccl28	ENSRNOG0000059640	C-C motif chemokine ligand 28 Source RGD Symbol Acc 619937
B03	SBR1146662	ENSRNOT00000015139.3	Ccl3	ENSRNOG0000011205	C-C motif chemokine ligand 3 Source RGD Symbol Acc 3647
B04	SBR1202700	ENSRNOT00000015199.3	Ccl4	ENSRNOG0000011406	C-C motif chemokine ligand 4 Source RGD Symbol Acc 620441
B05	SBR1094349	ENSRNOT00000014865.6	Ccl5	ENSRNOG0000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B06	SBR1162782	ENSRNOT00000045867.3	Ccl6	ENSRNOG0000030021	chemokine (C-C motif) ligand 6 Source RGD Symbol Acc 1303200
B07	SBR1105598	ENSRNOT00000000256.4	Ccl7	ENSRNOG0000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
B08	SBR1179516	ENSRNOT00000029184.5	Ccl9	ENSRNOG0000028548	chemokine (C-C motif) ligand 9 Source RGD Symbol Acc 1310563
B09	SBR1135029	ENSRNOT00000008772.4	Ccr1	ENSRNOG0000006715	C-C motif chemokine receptor 1 Source RGD Symbol Acc 708446
B10	SBR1103843	ENSRNOT00000027458.5	Ccr10	ENSRNOG0000020275	C-C motif chemokine receptor 10 Source RGD Symbol Acc 1310716
B11	SBR1162345	ENSRNOT00000008783.2	Ccr11	ENSRNOG0000006730	chemokine (C-C motif) receptor 1-like 1 Source RGD Symbol Acc 1308007
B12	SBR1171006	ENSRNOT00000008747.6	Xcr1	ENSRNOG0000006620	X-C motif chemokine receptor 1 Source RGD Symbol Acc 1311480
C01	SBR1110610	ENSRNOT00000008809.4	Ccr3	ENSRNOG0000006736	C-C motif chemokine receptor 3 Source RGD Symbol Acc 620593
C02	SBR1113127	ENSRNOT00000013705.3	Ccr4	ENSRNOG0000010315	C-C motif chemokine receptor 4 Source RGD Symbol Acc 620594
C03	SBR1129600	ENSRNOT00000082774.1	Ccr5	ENSRNOG0000049115	C-C motif chemokine receptor 5 Source RGD Symbol Acc 620596
C04	SBR1172047	ENSRNOT00000017302.6	Ccr6	ENSRNOG0000012964	C-C motif chemokine receptor 6 Source RGD Symbol Acc 1308562
C05	SBR1211640	ENSRNOT00000014163.7	Ccr7	ENSRNOG0000010665	C-C motif chemokine receptor 7 Source RGD Symbol Acc 735151
C06	SBR1138241	ENSRNOT00000029766.1	Ccr8	ENSRNOG0000026759	C-C motif chemokine receptor 8 Source RGD Symbol Acc 1304893
C07	SBR1114196	ENSRNOT00000008269.7	Ccr9	ENSRNOG0000006311	C-C motif chemokine receptor 9 Source RGD Symbol Acc 628750
C08	SBR1133494	ENSRNOT00000044467.4	Ccr12	ENSRNOG0000033234	C-C motif chemokine receptor like 2 Source RGD Symbol Acc 1311811
C09	SBR1176137	ENSRNOT00000017127.6	Cklf	ENSRNOG0000012752	chemokine-like factor Source RGD Symbol Acc 620708
C10	SBR1128520	ENSRNOT00000000893.3	Cmklr1	ENSRNOG0000000704	chemerin chemokine-like receptor 1 Source RGD Symbol Acc 69359
		ENSRNOT000000		ENSRNOG00	CKLF-like MARVEL transmembrane domain containing 2A Source RGD Symbol

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1194311	061648.3	Cmtm2a	000025420	Acc 1307501
C12	SBR1199898	ENSRNOT00000014234.7	Cmtm3	ENSRNOG0000010691	CKLF-like MARVEL transmembrane domain containing 3 Source RGD Symbol Acc 1308763
D01	SBR1188346	ENSRNOT00000075965.1	Cmtm5	ENSRNOG0000016828	CKLF-like MARVEL transmembrane domain containing 5 Source RGD Symbol Acc 1307045
D02	SBR1147286	ENSRNOT00000022128.5	Cx3cl1	ENSRNOG0000016326	C-X3-C motif chemokine ligand 1 Source RGD Symbol Acc 620458
D03	SBR1106590	ENSRNOT00000025019.2	Cx3cr1	ENSRNOG0000018509	C-X3-C motif chemokine receptor 1 Source RGD Symbol Acc 620137
D04	SBR1198580	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
D05	SBR1153857	ENSRNOT00000003075.7	Cxcl10	ENSRNOG0000022256	C-X-C motif chemokine ligand 10 Source RGD Symbol Acc 620209
D06	SBR1210202	ENSRNOT00000031667.4	Cxcl11	ENSRNOG0000022298	C-X-C motif chemokine ligand 11 Source RGD Symbol Acc 727827
D07	SBR1209894	ENSRNOT00000066670.3	Cxcl12	ENSRNOG0000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
D08	SBR1123253	ENSRNOT00000039383.4	Cxcl13	ENSRNOG0000024899	C-X-C motif chemokine ligand 13 Source RGD Symbol Acc 1564256
D09	SBR1136547	ENSRNOT00000016009.5	Cxcl14	ENSRNOG0000011984	C-X-C motif chemokine ligand 14 Source RGD Symbol Acc 1307406
D10	SBR1184750	ENSRNOT00000032926.4	Cxcl16	ENSRNOG0000026647	C-X-C motif chemokine ligand 16 Source RGD Symbol Acc 1562928
D11	SBR1132150	ENSRNOT00000003745.6	Cxcl2	ENSRNOG0000002792	C-X-C motif chemokine ligand 2 Source RGD Symbol Acc 70069
D12	SBR1116913	ENSRNOT00000034090.3	Cxcl3	ENSRNOG0000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
E01	SBR1137423	ENSRNOT00000003823.3	Cxcl6	ENSRNOG0000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
E02	SBR1174753	ENSRNOT00000003082.7	Cxcl9	ENSRNOG0000022242	C-X-C motif chemokine ligand 9 Source RGD Symbol Acc 628798
E03	SBR1118473	ENSRNOT00000081711.1	Cxcr2	ENSRNOG0000014269	C-X-C motif chemokine receptor 2 Source RGD Symbol Acc 2906
E04	SBR1150044	ENSRNOT00000076210.1	Cxcr3	ENSRNOG0000003305	C-X-C motif chemokine receptor 3 Source RGD Symbol Acc 621528
E05	SBR1129817	ENSRNOT00000005143.6	Cxcr4	ENSRNOG0000003866	C-X-C motif chemokine receptor 4 Source RGD Symbol Acc 620465
E06	SBR1117366	ENSRNOT00000016580.3	Cxcr5	ENSRNOG0000012430	C-X-C motif chemokine receptor 5 Source RGD Symbol Acc 62010
E07	SBR1144775	ENSRNOT00000008294.2	Cxcr6	ENSRNOG0000006319	C-X-C motif chemokine receptor 6 Source RGD Symbol Acc 1642118
E08	SBR1152673	ENSRNOT00000026558.3	Ackr3	ENSRNOG0000019622	atypical chemokine receptor 3 Source RGD Symbol Acc 620601
E09	SBR1185708	ENSRNOT00000023388.5	Fgf2	ENSRNOG0000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
E10	SBR1137055	ENSRNOT00000014842.4	Fpr1	ENSRNOG0000011174	formyl peptide receptor 1 Source RGD Symbol Acc 1310883
E11	SBR1150405	ENSRNOT00000036537.2	Gpr17	ENSRNOG0000025745	G protein-coupled receptor 17 Source RGD Symbol Acc 1589785
E12	SBR1184753	ENSRNOT00000077935.1	Hif1a	ENSRNOG0000008292	hypoxia inducible factor 1 subunit alpha Source RGD Symbol Acc 61928
F01	SBR1108917	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
F02	SBR1123238	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
F03	SBR1105763	ENSRNOT00000016289.4	Il16	ENSRNOG0000011680	interleukin 16 Source RGD Symbol Acc 1583872
F04	SBR1196387	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
F05	SBR1101847	ENSRNOT00000010029.3	Il4	ENSRNOG0000007624	interleukin 4 Source RGD Symbol Acc 2898
F06	SBR1156877	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
F07	SBR1128990	ENSRNOT00000090868.1	Cxcr1	ENSRNOG0000048239	C-X-C motif chemokine receptor 1 Source RGD Symbol Acc 2905
F08	SBR1114389	ENSRNOT00000086003.1	Itgad	ENSRNOG0000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
F09	SBR1182978	ENSRNOT00000001639.6	Itgb2	ENSRNOG0000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
F10	SBR1173378	ENSRNOT00000071405.2	Kdr	ENSRNOG0000046829	kinase insert domain receptor Source RGD Symbol Acc 2965

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1202944	ENSRNOT00000002533.7	Mapk1	ENSRNOG0000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
F12	SBR1149566	ENSRNOT00000000618.6	Mapk14	ENSRNOG0000000513	mitogen activated protein kinase 14 Source RGD Symbol Acc 70496
G01	SBR1204196	ENSRNOT00000033406.1	Pf4	ENSRNOG00000028015	platelet factor 4 Source RGD Symbol Acc 3305
G02	SBR1186883	ENSRNOT00000014273.5	Plau	ENSRNOG0000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
G03	SBR1101427	ENSRNOT00000003794.3	Ppbp	ENSRNOG0000002829	pro-platelet basic protein Source RGD Symbol Acc 70548
G04	SBR1097570	ENSRNOT000000055073.4	Prkca	ENSRNOG0000003491	protein kinase C, alpha Source RGD Symbol Acc 3395
G05	SBR1128334	ENSRNOT000000081601.1	Slit2	ENSRNOG0000003840	slit guidance ligand 2 Source RGD Symbol Acc 69310
G06	SBR1143485	ENSRNOT000000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G07	SBR1126190	ENSRNOT000000013025.4	Tlr2	ENSRNOG0000009822	toll-like receptor 2 Source RGD Symbol Acc 735138
G08	SBR1180108	ENSRNOT000000014020.3	Tlr4	ENSRNOG0000010522	toll-like receptor 4 Source RGD Symbol Acc 3870
G09	SBR1187845	ENSRNOT000000079677.1	LOC103694380	ENSRNOG0000005156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G10	SBR1135044	ENSRNOT000000040541.4	Tymp	ENSRNOG00000032394	thymidine phosphorylase Source RGD Symbol Acc 1305756
G11	SBR1108862	ENSRNOT000000044163.4	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G12	SBR1188905	ENSRNOT000000003976.3	Xcl1	ENSRNOG0000002964	X-C motif chemokine ligand 1 Source RGD Symbol Acc 620452
H01	SBR1220567	ENSRNOT000000042459.4	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT000000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT000000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT000000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT000000018820.5	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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