

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

Rat Protease Activated Receptor Signaling

Cat. no. 249950 SBRN-159ZR

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	Adcy7	Akt1	Cd12	Cd55	Cdkn1a	Csf1	Csf2	Ccn2	Ctsg	Cxcl3	Ccn1	Dkk1
B	Egr1	Elk1	Ets1	F10	F2	F2r	F2rl1	F2rl2	F2rl3	F3	F7	Gata2
C	Gja1	Gnai1	Hbegf	Hmger	Hras	Hspa5	Icam1	Ikbb	Il10	Il13	Il1b	Il4
D	Il6	Itgad	Itgav	Itgb1	Junb	Kdr	Kitlg	Map2k1	Mapk14	LOC103694877	Mmp1	Mmp2
E	Nab2	Nrk1	Nr4a1	Plau	Plaur	Plek	Plg	Prkca	Prkce	Proc	Procr	Plgs2
F	Plk2	Ptpn11	Rel	Rela	Rhoa	Rhoh	Rps6kb1	S1pr1	S1pr3	Sele	Selp	Serpnb2
G	Serpnb5	Serpine1	Src	Tfpi	Tgfb1	Thbd	Thbs1	LOC103694380	Tp53	Vcam1	Vegfa	Vegfc
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	SBR1124296	ENSRNOT00000020700.5	Adcy7	ENSRNOG0000014776	adenylate cyclase 7 Source RGD Symbol Acc 619966
A02	SBR1163078	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A03	SBR1129555	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A04	SBR1156073	ENSRNOT00000005284.6	Cd55	ENSRNOG0000003927	CD55 molecule Source RGD Symbol Acc 620651
A05	SBR1145142	ENSRNOT00000091731.1	Cdkn1a	ENSRNOG0000000521	cyclin-dependent kinase inhibitor 1A Source RGD Symbol Acc 69328
A06	SBR1099651	ENSRNOT00000025222.6	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
A07	SBR1136894	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
A08	SBR1133606	ENSRNOT00000089196.1	Ccn2	ENSRNOG0000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
A09	SBR1152150	ENSRNOT00000059677.2	Ctsg	ENSRNOG0000020647	cathepsin G Source RGD Symbol Acc 1307681
A10	SBR1116913	ENSRNOT00000034090.3	Cxcl3	ENSRNOG0000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
A11	SBR1128717	ENSRNOT00000019501.4	Ccn1	ENSRNOG0000014350	cellular communication network factor 1 Source RGD Symbol Acc 620763
A12	SBR1171972	ENSRNOT00000015771.7	Dkk1	ENSRNOG0000011692	dickkopf WNT signaling pathway inhibitor 1 Source RGD Symbol Acc 1307313
B01	SBR1216566	ENSRNOT00000026303.4	Egr1	ENSRNOG0000019422	early growth response 1 Source RGD Symbol Acc 2544
B02	SBR1203710	ENSRNOT00000013522.5	Elk1	ENSRNOG0000010171	ELK1, ETS transcription factor Source RGD Symbol Acc 1598663
B03	SBR1138162	ENSRNOT00000011925.4	Ets1	ENSRNOG0000008941	ETS proto-oncogene 1, transcription factor Source RGD Symbol Acc 2583
B04	SBR1112249	ENSRNOT00000026677.6	F10	ENSRNOG0000033444	coagulation factor X Source RGD Symbol Acc 61850
B05	SBR1146218	ENSRNOT00000022233.5	F2	ENSRNOG0000016325	coagulation factor II Source RGD Symbol Acc 61996
B06	SBR1151774	ENSRNOT00000074626.2	F2r	ENSRNOG0000048043	coagulation factor II (thrombin) receptor Source RGD Symbol Acc 2586
B07	SBR1103189	ENSRNOT00000061580.1	F2r1	ENSRNOG0000018003	F2R like trypsin receptor 1 Source RGD Symbol Acc 620866
B08	SBR1140476	ENSRNOT00000024292.2	F2r2	ENSRNOG0000018054	coagulation factor II (thrombin) receptor-like 2 Source RGD Symbol Acc 620871
B09	SBR1157635	ENSRNOT00000072664.2	F2r3	ENSRNOG0000048186	F2R like thrombin or trypsin receptor 3 Source RGD Symbol Acc 620872
B10	SBR1148832	ENSRNOT00000015836.5	F3	ENSRNOG0000011800	coagulation factor III, tissue factor Source RGD Symbol Acc 2587
B11	SBR1143885	ENSRNOT00000037806.2	F7	ENSRNOG0000032737	coagulation factor VII Source RGD Symbol Acc 628678
B12	SBR1149219	ENSRNOT00000017240.2	Gata2	ENSRNOG0000012347	GATA binding protein 2 Source RGD Symbol Acc 2664
C01	SBR1181138	ENSRNOT00000001054.4	Gja1	ENSRNOG0000000805	gap junction protein, alpha 1 Source RGD Symbol Acc 2690
C02	SBR1166173	ENSRNOT00000091004.1	Gnai1	ENSRNOG0000057096	G protein subunit alpha i1 Source RGD Symbol Acc 2713
C03	SBR1150704	ENSRNOT00000025157.6	Hbegf	ENSRNOG0000018646	heparin-binding EGF-like growth factor Source RGD Symbol Acc 2526
C04	SBR1198292	ENSRNOT00000022055.4	Hmgcr	ENSRNOG0000016122	3-hydroxy-3-methylglutaryl-CoA reductase Source RGD Symbol Acc 2803
C05	SBR1204952	ENSRNOT00000079464.1	Hras	ENSRNOG0000016611	HRas proto-oncogene, GTPase Source RGD Symbol Acc 2827
C06	SBR1166340	ENSRNOT00000025067.6	Hspa5	ENSRNOG0000018294	heat shock protein family A member 5 Source RGD Symbol Acc 2843
C07	SBR1152534	ENSRNOT00000028066.5	Icam1	ENSRNOG0000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
C08	SBR1133299	ENSRNOT00000025851.4	Ikbkb	ENSRNOG0000019073	inhibitor of nuclear factor kappa B kinase subunit beta Source RGD Symbol Acc 621375
C09	SBR1123238	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
C10	SBR1178777	ENSRNOT00000010121.2	Il13	ENSRNOG0000007652	interleukin 13 Source RGD Symbol Acc 68949
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1196387	006308.4	Il1b	000004649	interleukin 1 beta Source RGD Symbol Acc 2891
C12	SBR1101847	ENSRNOT00000010029.3	Il4	ENSRNOG0000007624	interleukin 4 Source RGD Symbol Acc 2898
D01	SBR1156877	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
D02	SBR1114389	ENSRNOT00000086003.1	Itgad	ENSRNOG0000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
D03	SBR1162857	ENSRNOT00000006961.7	Itgav	ENSRNOG0000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
D04	SBR1105686	ENSRNOT00000014785.5	Itgb1	ENSRNOG0000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
D05	SBR1195750	ENSRNOT00000067780.3	Junb	ENSRNOG0000042838	JunB proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2944
D06	SBR1173378	ENSRNOT00000071405.2	Kdr	ENSRNOG0000046829	kinase insert domain receptor Source RGD Symbol Acc 2965
D07	SBR1164095	ENSRNOT00000085097.1	Kitlg	ENSRNOG0000005386	KIT ligand Source RGD Symbol Acc 3086
D08	SBR1111011	ENSRNOT00000013933.6	Map2k1	ENSRNOG0000010176	mitogen activated protein kinase kinase 1 Source RGD Symbol Acc 70495
D09	SBR1149566	ENSRNOT00000000618.6	Mapk14	ENSRNOG0000000513	mitogen activated protein kinase 14 Source RGD Symbol Acc 70496
D10	SBR1136891	ENSRNOT00000008608.4	LOC103694877	ENSRNOG0000006589	macrophage migration inhibitory factor Source RGD Symbol Acc 621163
D11	SBR1179779	ENSRNOT00000012595.3	Mmp1	ENSRNOG0000032353	matrix metalloproteinase 1 Source RGD Symbol Acc 1307917
D12	SBR1120605	ENSRNOT00000022679.6	Mmp2	ENSRNOG0000016695	matrix metalloproteinase 2 Source RGD Symbol Acc 621316
E01	SBR1197972	ENSRNOT00000057745.3	Nab2	ENSRNOG0000008415	Ngfi-A binding protein 2 Source RGD Symbol Acc 1311712
E02	SBR1111134	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
E03	SBR1104967	ENSRNOT00000010171.4	Nr4a1	ENSRNOG0000007607	nuclear receptor subfamily 4, group A, member 1 Source RGD Symbol Acc 620029
E04	SBR1186883	ENSRNOT00000014273.5	Plau	ENSRNOG0000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
E05	SBR1209735	ENSRNOT00000075167.3	Plaur	ENSRNOG0000037931	plasminogen activator, urokinase receptor Source RGD Symbol Acc 620597
E06	SBR1167295	ENSRNOT00000079167.1	Plek	ENSRNOG0000005214	pleckstrin Source RGD Symbol Acc 1308269
E07	SBR1165120	ENSRNOT00000080352.1	Plg	ENSRNOG0000017223	plasminogen Source RGD Symbol Acc 619893
E08	SBR1097570	ENSRNOT00000055073.4	Prkca	ENSRNOG0000003491	protein kinase C, alpha Source RGD Symbol Acc 3395
E09	SBR1097999	ENSRNOT00000020959.7	Prkce	ENSRNOG0000015603	protein kinase C, epsilon Source RGD Symbol Acc 61925
E10	SBR1197314	ENSRNOT00000019596.4	Proc	ENSRNOG0000014376	protein C, inactivator of coagulation factors Va and VIIIa Source RGD Symbol Acc 3411
E11	SBR1185788	ENSRNOT00000055254.4	Procr	ENSRNOG0000019330	protein C receptor Source RGD Symbol Acc 1305991
E12	SBR1122148	ENSRNOT00000003567.4	Ptgs2	ENSRNOG0000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F01	SBR1118067	ENSRNOT00000079599.1	Ptk2	ENSRNOG0000007916	protein tyrosine kinase 2 Source RGD Symbol Acc 3443
F02	SBR1164134	ENSRNOT00000046323.5	Ptpn11	ENSRNOG0000030124	protein tyrosine phosphatase, non-receptor type 11 Source RGD Symbol Acc 3447
F03	SBR1170346	ENSRNOT00000081077.1	Rel	ENSRNOG0000054437	REL proto-oncogene, NF-kB subunit Source RGD Symbol Acc 1311231
F04	SBR1138204	ENSRNOT00000045233.3	Rela	ENSRNOG0000030888	RELA proto-oncogene, NF-kB subunit Source RGD Symbol Acc 727889
F05	SBR1125110	ENSRNOT00000071664.2	Rhoa	ENSRNOG0000050519	ras homolog family member A Source RGD Symbol Acc 619921
F06	SBR1137575	ENSRNOT00000003425.4	Rhoh	ENSRNOG0000002540	ras homolog family member H Source RGD Symbol Acc 1307623
F07	SBR1105085	ENSRNOT00000005226.4	Rps6kb1	ENSRNOG0000003919	ribosomal protein S6 kinase B1 Source RGD Symbol Acc 620683
F08	SBR1147227	ENSRNOT00000018318.3	S1pr1	ENSRNOG0000013683	sphingosine-1-phosphate receptor 1 Source RGD Symbol Acc 61958
F09	SBR1210951	ENSRNOT00000019473.3	S1pr3	ENSRNOG0000014524	sphingosine-1-phosphate receptor 3 Source RGD Symbol Acc 1583843
F10	SBR1131931	ENSRNOT00000076757.1	Sele	ENSRNOG0000002723	selectin E Source RGD Symbol Acc 3654

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1174453	ENSRNOT00000076879.2	Selp	ENSRNOG0000002794	selectin P Source RGD Symbol Acc 3656
F12	SBR1169254	ENSRNOT00000003409.5	Serpinb2	ENSRNOG0000002460	serpin family B member 2 Source RGD Symbol Acc 621823
G01	SBR1138369	ENSRNOT00000003625.7	Serpinb5	ENSRNOG0000002640	serpin family B member 5 Source RGD Symbol Acc 69342
G02	SBR1126485	ENSRNOT00000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
G03	SBR1192294	ENSRNOT00000012739.4	Src	ENSRNOG0000009495	SRC proto-oncogene, non-receptor tyrosine kinase Source RGD Symbol Acc 620795
G04	SBR1155784	ENSRNOT00000006787.7	Tfpi	ENSRNOG0000005039	tissue factor pathway inhibitor Source RGD Symbol Acc 61914
G05	SBR1143485	ENSRNOT00000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G06	SBR1118242	ENSRNOT00000006200.3	Thbd	ENSRNOG0000004687	thrombomodulin Source RGD Symbol Acc 621299
G07	SBR1160692	ENSRNOT00000083351.1	Thbs1	ENSRNOG0000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G08	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G09	SBR1172374	ENSRNOT00000046490.3	Tp53	ENSRNOG0000010756	tumor protein p53 Source RGD Symbol Acc 3889
G10	SBR1189462	ENSRNOT00000077972.1	Vcam1	ENSRNOG0000014333	vascular cell adhesion molecule 1 Source RGD Symbol Acc 3952
G11	SBR1108862	ENSRNOT00000044163.4	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G12	SBR1127903	ENSRNOT00000015529.4	Vegfc	ENSRNOG0000011416	vascular endothelial growth factor C Source RGD Symbol Acc 619800
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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