

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

Rat Necrosis

Cat. no. 249950 SBRN-141ZR

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	Aifm1	Ar	Atp6v1g2	Bax	Bid	Birc3	Bmf	Bnip3l	Capn1	Capn2	Capn3	Capn5
B	Capn6	Capn7	LOC100912380	Car9	Casp8ap2	Cd40	Ce1n1	Commd4	Cyba	Cybb	Cyld	Defb1
C	Dpysl4	Fadd	Faf1	Fas	Faslg	Fem1b	Foxi1	Fus	Galt5	Glut1	Glul	Grb2
D	Hspbp1	Ikbbg	Kcnip1	LOC100911519	Madd	Mag	Oga	Myd88	Nfkb1	Ngf	Ngfr	Bex3
E	Nox1	Nox4	Olr1583	Parp1	Parp2	Phf2	Ppia	Ppid	PVR	Pygl	Rob25	RGD1311517
F	Dennd4a	Ripk1	Ripk2	Ripk3	Slc25a4	Sp1	Spata2	Sycp2	Tmem123	Maco1	LOC103694380	AABR07018323.1
G	Tnfrsf14	Tnfrsf17	Tnfrsf1a	Tnfrsf1b	Tnfrsf25	Tnfrsf4	Tnfrsf8	Tnfrsf10	Tnfrsf15	Trodd	Traf2	Txn14b
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	SBR1190041	ENSRNOT00000008503.5	Aifm1	ENSRNOG0000006067	apoptosis inducing factor, mitochondria associated 1 Source RGD Symbol Acc 620817
A02	SBR1193668	ENSRNOT00000009129.7	Ar	ENSRNOG0000005639	androgen receptor Source RGD Symbol Acc 2147
A03	SBR1131254	ENSRNOT00000001114.5	Atp6v1g2	ENSRNOG0000000840	ATPase H+ transporting V1 subunit G2 Source RGD Symbol Acc 1303186
A04	SBR1154566	ENSRNOT00000028328.5	Bax	ENSRNOG0000020876	BCL2 associated X, apoptosis regulator Source RGD Symbol Acc 2192
A05	SBR1147619	ENSRNOT00000016776.2	Bid	ENSRNOG0000012439	BH3 interacting domain death agonist Source RGD Symbol Acc 620160
A06	SBR1181460	ENSRNOT00000090774.1	Birc3	ENSRNOG0000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
A07	SBR1196608	ENSRNOT00000010381.4	Bmf	ENSRNOG0000007529	Bcl2 modifying factor Source RGD Symbol Acc 628658
A08	SBR1172499	ENSRNOT00000014798.5	Bnip3l	ENSRNOG0000009820	BCL2 interacting protein 3 like Source RGD Symbol Acc 621354
A09	SBR1163286	ENSRNOT00000028431.6	Capn1	ENSRNOG0000020935	calpain 1 Source RGD Symbol Acc 2267
A10	SBR1117892	ENSRNOT00000045326.3	Capn2	ENSRNOG0000034015	calpain 2 Source RGD Symbol Acc 2268
A11	SBR1202318	ENSRNOT00000011761.6	Capn3	ENSRNOG0000008609	calpain 3 Source RGD Symbol Acc 2269
A12	SBR1095508	ENSRNOT00000083055.1	Capn5	ENSRNOG0000014251	calpain 5 Source RGD Symbol Acc 620084
B01	SBR1110738	ENSRNOT00000006638.3	Capn6	ENSRNOG0000004882	calpain 6 Source RGD Symbol Acc 70960
B02	SBR1168095	ENSRNOT00000026323.6	Capn7	ENSRNOG0000019273	calpain 7 Source RGD Symbol Acc 1304855
B03	SBR1184554	ENSRNOT00000072756.1	LOC100912380	ENSRNOG0000045747	calpain small subunit 1-like Source RGD Symbol Acc 6487412
B04	SBR1133743	ENSRNOT00000023060.5	Car9	ENSRNOG0000017073	carbonic anhydrase 9 Source RGD Symbol Acc 1306426
B05	SBR1210833	ENSRNOT00000079656.1	Casp8ap2	ENSRNOG0000006487	caspase 8 associated protein 2 Source RGD Symbol Acc 1305771
B06	SBR1146998	ENSRNOT00000055148.4	Cd40	ENSRNOG0000018488	CD40 molecule Source RGD Symbol Acc 619830
B07	SBR1172122	ENSRNOT00000021955.3	Cetn1	ENSRNOG0000016409	centrin 1 Source RGD Symbol Acc 620246
B08	SBR1163867	ENSRNOT00000064903.1	Commd4	ENSRNOG0000018671	COMM domain containing 4 Source RGD Symbol Acc 1306104
B09	SBR1159284	ENSRNOT00000017564.6	Cyba	ENSRNOG0000013014	cytochrome b-245 alpha chain Source RGD Symbol Acc 620573
B10	SBR1206037	ENSRNOT00000038994.3	Cybb	ENSRNOG0000003622	cytochrome b-245 beta chain Source RGD Symbol Acc 620574
B11	SBR1190498	ENSRNOT00000018888.7	Cyld	ENSRNOG0000014048	CYLD lysine 63 deubiquitinase Source RGD Symbol Acc 1308346
B12	SBR1143482	ENSRNOT00000018427.4	Defb1	ENSRNOG0000013768	defensin beta 1 Source RGD Symbol Acc 619943
C01	SBR1186950	ENSRNOT00000029587.2	Dpysl4	ENSRNOG0000027582	dihydropyrimidinase-like 4 Source RGD Symbol Acc 2409
C02	SBR1202965	ENSRNOT00000075089.3	Fadd	ENSRNOG0000047035	Fas associated via death domain Source RGD Symbol Acc 628700
C03	SBR1125231	ENSRNOT00000011765.6	Faf1	ENSRNOG0000008523	Fas associated factor 1 Source RGD Symbol Acc 70987
C04	SBR1159525	ENSRNOT00000025928.5	Fas	ENSRNOG0000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
C05	SBR1097457	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
C06	SBR1110013	ENSRNOT00000009368.6	Fem1b	ENSRNOG0000007077	fem-1 homolog B Source RGD Symbol Acc 1304569
C07	SBR1200948	ENSRNOT00000009058.6	Foxi1	ENSRNOG0000006293	forkhead box I1 Source RGD Symbol Acc 1307421
C08	SBR1188948	ENSRNOT00000031891.4	Fus	ENSRNOG0000023360	FUS RNA binding protein Source RGD Symbol Acc 1308864
C09	SBR1177898	ENSRNOT00000006319.3	Galnt5	ENSRNOG0000004645	polypeptide N-acetylgalactosaminyltransferase 5 Source RGD Symbol Acc 620361
C10	SBR1211487	ENSRNOT00000083446.1	Glud1	ENSRNOG0000057367	glutamate dehydrogenase 1 Source RGD Symbol Acc 2708
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1200434	075480.2	Glul	000049560	glutamate-ammonia ligase Source RGD Symbol Acc 2710
C12	SBR1181692	ENSRNOT00000005347.5	Grb2	ENSRNOG0000003990	growth factor receptor bound protein 2 Source RGD Symbol Acc 619758
D01	SBR1156387	ENSRNOT00000003060.6	Hspbp1	ENSRNOG0000002241	HSPB1 associated protein 1 Source RGD Symbol Acc 620870
D02	SBR1133952	ENSRNOT00000078438.1	Ikkg	ENSRNOG0000060936	inhibitor of nuclear factor kappa B kinase subunit gamma Source RGD Symbol Acc 735223
D03	SBR1157751	ENSRNOT00000040737.2	Kcnp1	ENSRNOG0000005365	potassium voltage-gated channel interacting protein 1 Source RGD Symbol Acc 70886
D04	SBR1110004	ENSRNOT00000025290.5	LOC100911519	ENSRNOG0000018710	p53-induced protein with a death domain-like Source RGD Symbol Acc 6492303
D05	SBR1177182	ENSRNOT00000079394.1	Madd	ENSRNOG0000012568	MAP-kinase activating death domain Source RGD Symbol Acc 619922
D06	SBR1138789	ENSRNOT00000028544.5	Mag	ENSRNOG0000021023	myelin-associated glycoprotein Source RGD Symbol Acc 3035
D07	SBR1181860	ENSRNOT00000065172.3	Oga	ENSRNOG0000017822	O-GlcNAcase Source RGD Symbol Acc 621077
D08	SBR1185632	ENSRNOT00000018341.5	Myd88	ENSRNOG0000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
D09	SBR1111134	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
D10	SBR1142365	ENSRNOT00000078376.1	Ngf	ENSRNOG0000016571	nerve growth factor Source RGD Symbol Acc 1598328
D11	SBR1176511	ENSRNOT00000007268.3	Ngfr	ENSRNOG0000005392	nerve growth factor receptor Source RGD Symbol Acc 3177
D12	SBR1176597	ENSRNOT00000045997.4	Bex3	ENSRNOG0000028822	brain expressed X-linked 3 Source RGD Symbol Acc 3148
E01	SBR1215490	ENSRNOT00000075325.1	Nox1	ENSRNOG0000048706	NADPH oxidase 1 Source RGD Symbol Acc 620598
E02	SBR1109066	ENSRNOT00000018990.6	Nox4	ENSRNOG0000013925	NADPH oxidase 4 Source RGD Symbol Acc 620600
E03	SBR1106098	ENSRNOT00000044784.1	Olr1583	ENSRNOG0000045582	olfactory receptor 1583 Source RGD Symbol Acc 1333448
E04	SBR1161994	ENSRNOT00000004232.5	Parp1	ENSRNOG0000003084	poly (ADP-ribose) polymerase 1 Source RGD Symbol Acc 2053
E05	SBR1191091	ENSRNOT00000011840.6	Parp2	ENSRNOG0000008892	poly (ADP-ribose) polymerase 2 Source RGD Symbol Acc 1310568
E06	SBR1198383	ENSRNOT00000066739.3	Phf2	ENSRNOG0000013517	putative homeodomain transcription factor 2 Source RGD Symbol Acc 1310593
E07	SBR1220569	ENSRNOT00000091873.1	Ppia	ENSRNOG0000027864	peptidylprolyl isomerase A Source RGD Symbol Acc 3372
E08	SBR1201432	ENSRNOT00000037890.4	Ppid	ENSRNOG0000027408	peptidylprolyl isomerase D Source RGD Symbol Acc 1303174
E09	SBR1108421	ENSRNOT00000064305.3	PVR	ENSRNOG0000019202	poliovirus receptor Source RGD Symbol Acc 3813
E10	SBR1211593	ENSRNOT00000009183.5	Pygl	ENSRNOG0000006388	glycogen phosphorylase L Source RGD Symbol Acc 620687
E11	SBR1180034	ENSRNOT00000032355.5	Rab25	ENSRNOG0000023640	RAB25, member RAS oncogene family Source RGD Symbol Acc 1308447
E12	SBR1159437	ENSRNOT00000027347.5	RGD1311517	ENSRNOG0000020199	similar to RIKEN cDNA 9430015G10 Source RGD Symbol Acc 1311517
F01	SBR1156703	ENSRNOT00000016260.8	Dennd4a	ENSRNOG0000011739	DENN domain containing 4A Source RGD Symbol Acc 1562639
F02	SBR1174883	ENSRNOT00000023962.5	Ripk1	ENSRNOG0000017787	receptor interacting serine/threonine kinase 1 Source RGD Symbol Acc 1310158
F03	SBR1122908	ENSRNOT00000012963.5	Ripk2	ENSRNOG0000009389	receptor-interacting serine-threonine kinase 2 Source RGD Symbol Acc 1309167
F04	SBR1213689	ENSRNOT00000027759.4	Ripk3	ENSRNOG0000020465	receptor-interacting serine-threonine kinase 3 Source RGD Symbol Acc 628899
F05	SBR1180410	ENSRNOT00000014704.4	Slc25a4	ENSRNOG0000010830	solute carrier family 25 member 4 Source RGD Symbol Acc 620352
F06	SBR1200819	ENSRNOT00000019403.6	Sp1	ENSRNOG0000014084	Sp1 transcription factor Source RGD Symbol Acc 3738
F07	SBR1146555	ENSRNOT00000012604.4	Spata2	ENSRNOG0000009207	spermatogenesis associated 2 Source RGD Symbol Acc 620754
F08	SBR1153809	ENSRNOT00000079019.1	Sycp2	ENSRNOG0000061690	synaptonemal complex protein 2 Source RGD Symbol Acc 69429
F09	SBR1187713	ENSRNOT00000086251.1	Tmem123	ENSRNOG0000010584	transmembrane protein 123 Source RGD Symbol Acc 1305625
F10	SBR1145172	ENSRNOT00000079536.1	Maco1	ENSRNOG0000056156	macoilin 1 Source RGD Symbol Acc 1561685

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
F12	SBR1211981	ENSRNOT00000066128.4	AABR07018323.1	ENSRNOG0000038483	
G01	SBR1149283	ENSRNOT00000018494.5	Tnfrsf14	ENSRNOG0000013820	TNF receptor superfamily member 14 Source RGD Symbol Acc 1310115
G02	SBR1199596	ENSRNOT00000035886.5	Tnfrsf17	ENSRNOG0000021987	TNF receptor superfamily member 17 Source RGD Symbol Acc 1304703
G03	SBR1130829	ENSRNOT00000048529.4	Tnfrsf1a	ENSRNOG0000031312	TNF receptor superfamily member 1A Source RGD Symbol Acc 621237
G04	SBR1111098	ENSRNOT00000022478.4	Tnfrsf1b	ENSRNOG0000016575	TNF receptor superfamily member 1B Source RGD Symbol Acc 621238
G05	SBR1188451	ENSRNOT00000055466.2	Tnfrsf25	ENSRNOG0000021814	TNF receptor superfamily member 25 Source RGD Symbol Acc 1598206
G06	SBR1199323	ENSRNOT00000027251.4	Tnfrsf4	ENSRNOG0000020106	TNF receptor superfamily member 4 Source RGD Symbol Acc 3920
G07	SBR1100398	ENSRNOT00000022968.4	Tnfrsf8	ENSRNOG0000016782	TNF receptor superfamily member 8 Source RGD Symbol Acc 3879
G08	SBR1107258	ENSRNOT00000017758.5	Tnfrsf10	ENSRNOG0000013269	TNF superfamily member 10 Source RGD Symbol Acc 628734
G09	SBR1161711	ENSRNOT00000011845.3	Tnfrsf15	ENSRNOG0000008930	TNF superfamily member 15 Source RGD Symbol Acc 628735
G10	SBR1105478	ENSRNOT00000020405.6	Tradd	ENSRNOG0000015179	TNFRSF1A-associated via death domain Source RGD Symbol Acc 621313
G11	SBR1181541	ENSRNOT00000008253.6	Traf2	ENSRNOG0000006238	Tnf receptor-associated factor 2 Source RGD Symbol Acc 1310457
G12	SBR1213913	ENSRNOT00000034676.4	Txn14b	ENSRNOG0000021379	thioredoxin-like 4B Source RGD Symbol Acc 1305127
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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