

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

Rat Extracellular Matrix & Adhesion Molecules

Cat. no. 249950 SBRN-013ZR

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	Adams1	Adams2	Adams5	Adams8	Ctnna1	Cd44	Cdh1	Cdh2	Cdh3	Cdh4	Cntn1	Col1a1
B	Col2a1	Col3a1	Col4a1	Col4a2	Col4a3	Col5a1	Col6a1	Col8a1	Ccn2	Ctnna2	Ctnnb1	Ecm1
C	Emilin1	Entpd1	Fbln1	Fn1	Hapln1	Icam1	Itga2	Itga3	Itga4	Itga5	Itgax	Itgae
D	Itgal	Itgad	Itgav	Itgb1	Itgb2	Itgb3	Itgb4	Lama1	Lama2	AABR0703119 3.1	Lamb2	Lamb3
E	Lamc1	Mmp10	LOC1036948 74	Mmp12	Mmp13	Mmp14	Mmp15	Mmp16	Mmp1	Mmp2	Mmp3	Mmp7
F	Mmp8	Mmp9	Ncam1	Ncam2	Cdh12	Postn	Sele	Sell	Selp	Sgce	Sparc	Spock1
G	Spp1	Syt1	Tgfb1	Thbs1	Thbs2	Timp1	Timp2	Timp3	Tnc	Vcam1	Vcan	Vtn
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	SBR1097825	ENSRNOT0000002187.7	Adams1	ENSRNOG0000001607	ADAM metalloproteinase with thrombospondin type 1 motif, 1 Source RGD Symbol Acc 621241
A02	SBR1190468	ENSRNOT00000083568.1	Adams2	ENSRNOG00000061484	ADAM metalloproteinase with thrombospondin type 1 motif, 2 Source RGD Symbol Acc 1565950
A03	SBR1130359	ENSRNOT00000085444.1	Adams5	ENSRNOG00000057794	ADAM metalloproteinase with thrombospondin type 1 motif, 5 Source RGD Symbol Acc 735196
A04	SBR1112445	ENSRNOT00000007358.7	Adams8	ENSRNOG0000005574	ADAM metalloproteinase with thrombospondin type 1 motif, 8 Source RGD Symbol Acc 1308511
A05	SBR1154761	ENSRNOT00000008041.7	Ctna1	ENSRNOG0000005796	catenin alpha 1 Source RGD Symbol Acc 1359485
A06	SBR1148883	ENSRNOT00000009000.7	Cd44	ENSRNOG0000006094	CD44 molecule (Indian blood group) Source RGD Symbol Acc 2307
A07	SBR1170192	ENSRNOT00000027346.2	Cdh1	ENSRNOG00000020151	cadherin 1 Source RGD Symbol Acc 69279
A08	SBR1148414	ENSRNOT00000021170.6	Cdh2	ENSRNOG00000015602	cadherin 2 Source RGD Symbol Acc 69280
A09	SBR1144284	ENSRNOT00000027273.7	Cdh3	ENSRNOG00000020129	cadherin 3 Source RGD Symbol Acc 621089
A10	SBR1109604	ENSRNOT00000088026.1	Cdh4	ENSRNOG00000052405	cadherin 4 Source NCBI gene Acc 114588
A11	SBR1197899	ENSRNOT00000006219.4	Cntn1	ENSRNOG0000004438	contactin 1 Source RGD Symbol Acc 621300
A12	SBR1113220	ENSRNOT00000005311.6	Col1a1	ENSRNOG0000003897	collagen type I alpha 1 chain Source RGD Symbol Acc 61817
B01	SBR1135343	ENSRNOT00000086062.1	Col2a1	ENSRNOG00000058560	collagen type II alpha 1 chain Source RGD Symbol Acc 2375
B02	SBR1150486	ENSRNOT00000004956.4	Col3a1	ENSRNOG00000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
B03	SBR1106782	ENSRNOT00000057386.2	Col4a1	ENSRNOG00000016281	collagen type IV alpha 1 chain Source RGD Symbol Acc 1307148
B04	SBR1191843	ENSRNOT00000057461.4	Col4a2	ENSRNOG00000023972	collagen type IV alpha 2 chain Source RGD Symbol Acc 1308085
B05	SBR1147922	ENSRNOT00000020669.5	Col4a3	ENSRNOG00000015365	collagen type IV alpha 3 chain Source RGD Symbol Acc 71085
B06	SBR1207090	ENSRNOT00000086352.1	Col5a1	ENSRNOG0000008749	collagen type V alpha 1 chain Source RGD Symbol Acc 70920
B07	SBR1156528	ENSRNOT00000072951.2	Col6a1	ENSRNOG0000001249	collagen type VI alpha 1 chain Source RGD Symbol Acc 1565398
B08	SBR1212958	ENSRNOT00000060838.4	Col8a1	ENSRNOG00000039668	collagen type VIII alpha 1 chain Source RGD Symbol Acc 1309361
B09	SBR1133606	ENSRNOT00000089196.1	Ccn2	ENSRNOG00000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B10	SBR1110269	ENSRNOT00000007971.7	Ctna2	ENSRNOG0000006003	catenin alpha 2 Source RGD Symbol Acc 1305060
B11	SBR1143136	ENSRNOT00000079085.1	Ctnnb1	ENSRNOG00000054172	catenin beta 1 Source RGD Symbol Acc 70487
B12	SBR1094272	ENSRNOT00000028740.5	Ecm1	ENSRNOG00000021166	extracellular matrix protein 1 Source RGD Symbol Acc 620357
C01	SBR1153818	ENSRNOT00000010932.5	Emilin1	ENSRNOG0000008246	elastin microfibril interfacer 1 Source RGD Symbol Acc 1311209
C02	SBR1166748	ENSRNOT00000054719.4	Entpd1	ENSRNOG00000014574	ectonucleoside triphosphate diphosphohydrolase 1 Source RGD Symbol Acc 69265
C03	SBR1202189	ENSRNOT00000088042.1	Fbln1	ENSRNOG00000014137	fibulin 1 Source RGD Symbol Acc 1308667
C04	SBR1178912	ENSRNOT00000019772.6	Fn1	ENSRNOG00000014288	fibronectin 1 Source RGD Symbol Acc 2624
C05	SBR1173059	ENSRNOT00000042958.5	Hapln1	ENSRNOG00000032002	hyaluronan and proteoglycan link protein 1 Source RGD Symbol Acc 2412
C06	SBR1152534	ENSRNOT00000028066.5	Icam1	ENSRNOG00000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
C07	SBR1203459	ENSRNOT00000077401.1	Itga2	ENSRNOG00000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
C08	SBR1140121	ENSRNOT00000035894.7	Itga3	ENSRNOG0000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
C09	SBR1153753	ENSRNOT00000006880.6	Itga4	ENSRNOG0000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
C10	SBR1211134	ENSRNOT00000087748.1	Itga5	ENSRNOG00000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1156619	054983.4	Itgax	000036703	integrin subunit alpha X Source RGD Symbol Acc 1561123
C12	SBR1147827	ENSRNOT00000 077107.1	Itgae	ENSRNOG00 000046639	integrin subunit alpha E Source RGD Symbol Acc 621644
D01	SBR1127655	ENSRNOT00000 024404.6	Itgal	ENSRNOG00 000017980	integrin subunit alpha L Source RGD Symbol Acc 631424
D02	SBR1114389	ENSRNOT00000 086003.1	Itgad	ENSRNOG00 000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
D03	SBR1162857	ENSRNOT00000 006961.7	Itgav	ENSRNOG00 000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
D04	SBR1105686	ENSRNOT00000 014785.5	Itgb1	ENSRNOG00 000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
D05	SBR1182978	ENSRNOT00000 001639.6	Itgb2	ENSRNOG00 000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
D06	SBR1124401	ENSRNOT00000 073350.2	Itgb3	ENSRNOG00 000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
D07	SBR1171569	ENSRNOT00000 086747.1	Itgb4	ENSRNOG00 000005580	integrin subunit beta 4 Source RGD Symbol Acc 2928
D08	SBR1129625	ENSRNOT00000 023226.6	Lama1	ENSRNOG00 000017237	laminin subunit alpha 1 Source RGD Symbol Acc 1307207
D09	SBR1101215	ENSRNOT00000 079138.1	Lama2	ENSRNOG00 000011134	laminin subunit alpha 2 Source RGD Symbol Acc 1308889
D10	SBR1107270	ENSRNOT00000 015363.7	AABR0703 1193.1	ENSRNOG00 000011300	laminin subunit alpha 3 Source NCBI gene Acc 307582
D11	SBR1124359	ENSRNOT00000 072098.2	Lamb2	ENSRNOG00 000047768	laminin subunit beta 2 Source RGD Symbol Acc 2988
D12	SBR1134562	ENSRNOT00000 008440.6	Lamb3	ENSRNOG00 000006025	laminin subunit beta 3 Source RGD Symbol Acc 1562668
E01	SBR1130089	ENSRNOT00000 003605.7	Lamc1	ENSRNOG00 000002680	laminin subunit gamma 1 Source RGD Symbol Acc 621052
E02	SBR1174575	ENSRNOT00000 013119.4	Mmp10	ENSRNOG00 000032832	matrix metalloproteinase 10 Source RGD Symbol Acc 620192
E03	SBR1102915	ENSRNOT00000 031400.5	LOC10369 4874	ENSRNOG00 000028344	stromelysin-3 Source RGD Symbol Acc 9106139
E04	SBR1186316	ENSRNOT00000 011727.6	Mmp12	ENSRNOG00 000030187	matrix metalloproteinase 12 Source RGD Symbol Acc 620195
E05	SBR1185175	ENSRNOT00000 011507.5	Mmp13	ENSRNOG00 000008478	matrix metalloproteinase 13 Source RGD Symbol Acc 620196
E06	SBR1119832	ENSRNOT00000 075610.2	Mmp14	ENSRNOG00 000010947	matrix metalloproteinase 14 Source RGD Symbol Acc 620198
E07	SBR1154423	ENSRNOT00000 017629.6	Mmp15	ENSRNOG00 000012622	matrix metalloproteinase 15 Source RGD Symbol Acc 1308937
E08	SBR1160530	ENSRNOT00000 050137.5	Mmp16	ENSRNOG00 000005708	matrix metalloproteinase 16 Source RGD Symbol Acc 620199
E09	SBR1179779	ENSRNOT00000 012595.3	Mmp1	ENSRNOG00 000032353	matrix metalloproteinase 1 Source RGD Symbol Acc 1307917
E10	SBR1120605	ENSRNOT00000 022679.6	Mmp2	ENSRNOG00 000016695	matrix metalloproteinase 2 Source RGD Symbol Acc 621316
E11	SBR1166091	ENSRNOT00000 091704.1	Mmp3	ENSRNOG00 000032626	matrix metalloproteinase 3 Source RGD Symbol Acc 621317
E12	SBR1116320	ENSRNOT00000 014041.5	Mmp7	ENSRNOG00 000010507	matrix metalloproteinase 7 Source RGD Symbol Acc 3100
F01	SBR1151242	ENSRNOT00000 013936.3	Mmp8	ENSRNOG00 000009907	matrix metalloproteinase 8 Source RGD Symbol Acc 631408
F02	SBR1206750	ENSRNOT00000 023965.3	Mmp9	ENSRNOG00 000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
F03	SBR1143497	ENSRNOT00000 042281.6	Ncam1	ENSRNOG00 000031890	neural cell adhesion molecule 1 Source RGD Symbol Acc 67378
F04	SBR1118977	ENSRNOT00000 002895.7	Ncam2	ENSRNOG00 000002126	neural cell adhesion molecule 2 Source RGD Symbol Acc 1303131
F05	SBR1188969	ENSRNOT00000 034044.5	Cdh12	ENSRNOG00 000026392	cadherin 12 Source RGD Symbol Acc 1566350
F06	SBR1157129	ENSRNOT00000 017453.3	Postn	ENSRNOG00 000012660	periostin Source RGD Symbol Acc 1305285
F07	SBR1131931	ENSRNOT00000 076757.1	Sele	ENSRNOG00 000002723	selectin E Source RGD Symbol Acc 3654
F08	SBR1185190	ENSRNOT00000 003733.6	Sell	ENSRNOG00 000002776	selectin L Source RGD Symbol Acc 3655
F09	SBR1174453	ENSRNOT00000 076879.2	Selp	ENSRNOG00 000002794	selectin P Source RGD Symbol Acc 3656
F10	SBR1210713	ENSRNOT00000 074177.2	Sgce	ENSRNOG00 000046905	sarcoglycan, epsilon Source RGD Symbol Acc 1303201

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1136268	ENSRNOT00000017486.7	Sparc	ENSRNOG00000012840	secreted protein acidic and cysteine rich Source RGD Symbol Acc 3742
F12	SBR1165674	ENSRNOT00000061187.3	Spock1	ENSRNOG00000012747	sparc/osteonectin, cwcv and kazal like domains proteoglycan 1 Source RGD Symbol Acc 1311496
G01	SBR1210860	ENSRNOT00000075989.1	Spp1	ENSRNOG00000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
G02	SBR1160987	ENSRNOT00000048880.2	Syt1	ENSRNOG0000006426	synaptotagmin 1 Source RGD Symbol Acc 3803
G03	SBR1162645	ENSRNOT00000016390.7	Tgfb1	ENSRNOG00000012216	transforming growth factor, beta induced Source RGD Symbol Acc 620017
G04	SBR1160692	ENSRNOT00000083351.1	Thbs1	ENSRNOG00000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G05	SBR1212280	ENSRNOT00000014552.7	Thbs2	ENSRNOG00000010529	thrombospondin 2 Source RGD Symbol Acc 1310979
G06	SBR1154276	ENSRNOT00000013745.7	Timp1	ENSRNOG00000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
G07	SBR1123842	ENSRNOT00000004290.4	Timp2	ENSRNOG00000003148	TIMP metalloproteinase inhibitor 2 Source RGD Symbol Acc 61312
G08	SBR1140756	ENSRNOT00000005746.5	Timp3	ENSRNOG0000004303	TIMP metalloproteinase inhibitor 3 Source RGD Symbol Acc 3865
G09	SBR1205819	ENSRNOT00000084563.1	Tnc	ENSRNOG00000058645	tenascin C Source RGD Symbol Acc 621057
G10	SBR1189462	ENSRNOT00000077972.1	Vcam1	ENSRNOG00000014333	vascular cell adhesion molecule 1 Source RGD Symbol Acc 3952
G11	SBR1171946	ENSRNOT00000063821.3	Vcan	ENSRNOG00000029212	versican Source RGD Symbol Acc 619940
G12	SBR1184358	ENSRNOT00000039954.5	Vtn	ENSRNOG00000010031	vitronectin Source RGD Symbol Acc 3967
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT00000023017.5	B2m	ENSRNOG00000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT00000065935.3	Hprt1	ENSRNOG00000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT00000017468.2	Ldha	ENSRNOG00000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT00000018820.5	Rplp1	ENSRNOG00000013874	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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