

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

Rat Atherosclerosis

Cat. no. 249950 SBRN-038ZR

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	Abca1	Ace	Plin2	Apoa1	Apob	Apoe	Bax	Bcl2	Bcl2a1	Bcl2l1	Bid	Birc3
B	Ccl2	Ccl5	Ccr1	Ccr7	Cd44	Cdh5	Cflar	Col3a1	Csf1	Csf2	Ccn2	Cxcl1
C	Egr1	Eln	Eng	Fabp3	Fos	Fga	Fgb	Fgf2	Fn1	Hbegf	Icam1	Ifng
D	Il1a	Il1b	Il1r1	Il1r2	Il2	Il3	Il4	Il5	Ilga2	Ilga5	Ilgax	Ilgb2
E	Kdr	Klf2	Lama1	Ldlr	Lif	Lpl	Lyp1a1	Mmp3	Nfkb1	Nes3	LOC1009122 28	Nr1h3
F	Pdgfa	Pdgfb	Pdgfrb	Ppara	Ppard	Pparg	Ptgs1	Rxa	Sele	Sell	Selp	Selpg
G	Serp1b2	Serp1e1	Sod1	Spp1	Tgfb1	Tgfb2	Thbs4	Tnc	LOC1036943 80	Vcam1	Vegfa	Vwf
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	SBR1139590	ENSRNOT00000024564.7	Abca1	ENSRNOG0000018126	ATP binding cassette subfamily A member 1 Source RGD Symbol Acc 631344
A02	SBR1133139	ENSRNOT00000010627.8	Ace	ENSRNOG0000062101	angiotensin I converting enzyme Source RGD Symbol Acc 2493
A03	SBR1172823	ENSRNOT00000009749.5	Plin2	ENSRNOG0000007060	perilipin 2 Source RGD Symbol Acc 728889
A04	SBR1146824	ENSRNOT00000074357.2	Apoa1	ENSRNOG0000045679	apolipoprotein A1 Source RGD Symbol Acc 2130
A05	SBR1117274	ENSRNOT00000007371.6	Apob	ENSRNOG0000005542	apolipoprotein B Source RGD Symbol Acc 2129
A06	SBR1123572	ENSRNOT000000080453.1	Apoe	ENSRNOG0000018454	apolipoprotein E Source RGD Symbol Acc 2138
A07	SBR1154566	ENSRNOT00000028328.5	Bax	ENSRNOG0000020876	BCL2 associated X, apoptosis regulator Source RGD Symbol Acc 2192
A08	SBR1170984	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A09	SBR1100092	ENSRNOT00000039850.3	Bcl2a1	ENSRNOG0000047606	BCL2-related protein A1 Source RGD Symbol Acc 620621
A10	SBR1205791	ENSRNOT00000010762.7	Bcl2l1	ENSRNOG0000007946	Bcl2-like 1 Source RGD Symbol Acc 2200
A11	SBR1147619	ENSRNOT00000016776.2	Bid	ENSRNOG0000012439	BH3 interacting domain death agonist Source RGD Symbol Acc 620160
A12	SBR1181460	ENSRNOT00000090774.1	Birc3	ENSRNOG0000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
B01	SBR1165601	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
B02	SBR1094349	ENSRNOT00000014865.6	Ccl5	ENSRNOG0000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B03	SBR1135029	ENSRNOT00000008772.4	Ccr1	ENSRNOG0000006715	C-C motif chemokine receptor 1 Source RGD Symbol Acc 708446
B04	SBR1211640	ENSRNOT00000014163.7	Ccr7	ENSRNOG0000010665	C-C motif chemokine receptor 7 Source RGD Symbol Acc 735151
B05	SBR1148883	ENSRNOT00000009000.7	Cd44	ENSRNOG0000006094	CD44 molecule (Indian blood group) Source RGD Symbol Acc 2307
B06	SBR1122090	ENSRNOT00000017983.6	Cdh5	ENSRNOG0000013324	cadherin 5 Source RGD Symbol Acc 1307370
B07	SBR1105415	ENSRNOT00000016730.5	Cflar	ENSRNOG0000012473	CASP8 and FADD-like apoptosis regulator Source RGD Symbol Acc 620847
B08	SBR1150486	ENSRNOT00000004956.4	Col3a1	ENSRNOG0000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
B09	SBR1099651	ENSRNOT00000025222.6	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
B10	SBR1136894	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B11	SBR1133606	ENSRNOT000000089196.1	Ccn2	ENSRNOG0000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B12	SBR1198580	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
C01	SBR1216566	ENSRNOT00000026303.4	Egr1	ENSRNOG0000019422	early growth response 1 Source RGD Symbol Acc 2544
C02	SBR1117360	ENSRNOT000000040069.6	Eln	ENSRNOG0000001469	elastin Source RGD Symbol Acc 67394
C03	SBR1127868	ENSRNOT00000074562.3	Eng	ENSRNOG0000050190	endoglin Source RGD Symbol Acc 1593188
C04	SBR1147343	ENSRNOT00000017325.5	Fabp3	ENSRNOG0000012879	fatty acid binding protein 3 Source RGD Symbol Acc 69048
C05	SBR1159525	ENSRNOT00000025928.5	Fas	ENSRNOG0000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
C06	SBR1198729	ENSRNOT00000064091.3	Fga	ENSRNOG0000024848	fibrinogen alpha chain Source RGD Symbol Acc 2603
C07	SBR1202833	ENSRNOT00000009813.3	Fgb	ENSRNOG0000007092	fibrinogen beta chain Source RGD Symbol Acc 2604
C08	SBR1185708	ENSRNOT00000023388.5	Fgf2	ENSRNOG0000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
C09	SBR1178912	ENSRNOT00000019772.6	Fn1	ENSRNOG0000014288	fibronectin 1 Source RGD Symbol Acc 2624
C10	SBR1150704	ENSRNOT00000025157.6	Hbegf	ENSRNOG0000018646	heparin-binding EGF-like growth factor Source RGD Symbol Acc 2526
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1152534	028066.5	Icam1	000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
C12	SBR1108917	ENSRNOT0000009919.2	Iifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
D01	SBR1106125	ENSRNOT00000006113.8	Il1a	ENSRNOG0000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
D02	SBR1196387	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D03	SBR1113457	ENSRNOT00000019673.4	Il1r1	ENSRNOG0000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D04	SBR1130335	ENSRNOT00000019415.5	Il1r2	ENSRNOG0000014378	interleukin 1 receptor type 2 Source RGD Symbol Acc 621147
D05	SBR1102170	ENSRNOT00000023327.2	Il2	ENSRNOG0000017348	interleukin 2 Source RGD Symbol Acc 620047
D06	SBR1198875	ENSRNOT00000031762.1	Il3	ENSRNOG0000026786	interleukin 3 Source RGD Symbol Acc 2897
D07	SBR1101847	ENSRNOT00000010029.3	Il4	ENSRNOG0000007624	interleukin 4 Source RGD Symbol Acc 2898
D08	SBR1179555	ENSRNOT00000010729.4	Il5	ENSRNOG0000008111	interleukin 5 Source RGD Symbol Acc 2900
D09	SBR1203459	ENSRNOT00000077401.1	Itga2	ENSRNOG0000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
D10	SBR1211134	ENSRNOT00000087748.1	Itga5	ENSRNOG0000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
D11	SBR1156619	ENSRNOT00000054983.4	Itgax	ENSRNOG0000036703	integrin subunit alpha X Source RGD Symbol Acc 1561123
D12	SBR1182978	ENSRNOT00000001639.6	Itgb2	ENSRNOG0000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
E01	SBR1173378	ENSRNOT00000071405.2	Kdr	ENSRNOG0000046829	kinase insert domain receptor Source RGD Symbol Acc 2965
E02	SBR1208407	ENSRNOT00000019052.2	Klf2	ENSRNOG0000014205	Kruppel-like factor 2 Source RGD Symbol Acc 1359220
E03	SBR1129625	ENSRNOT00000023226.6	Lama1	ENSRNOG0000017237	laminin subunit alpha 1 Source RGD Symbol Acc 1307207
E04	SBR1193091	ENSRNOT00000013496.3	Ldlr	ENSRNOG0000009946	low density lipoprotein receptor Source RGD Symbol Acc 2998
E05	SBR1155933	ENSRNOT00000009313.4	Lif	ENSRNOG0000007002	LIF, interleukin 6 family cytokine Source RGD Symbol Acc 620865
E06	SBR1197775	ENSRNOT00000016543.3	Lpl	ENSRNOG0000012181	lipoprotein lipase Source RGD Symbol Acc 3017
E07	SBR1138210	ENSRNOT00000011312.3	Lypla1	ENSRNOG0000008320	lysophospholipase 1 Source RGD Symbol Acc 3025
E08	SBR1166091	ENSRNOT00000091704.1	Mmp3	ENSRNOG0000032626	matrix metalloproteinase 3 Source RGD Symbol Acc 621317
E09	SBR1111134	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
E10	SBR1203756	ENSRNOT00000013058.4	Nos3	ENSRNOG0000009348	nitric oxide synthase 3 Source RGD Symbol Acc 3186
E11	SBR1096384	ENSRNOT00000013145.6	LOC100912228	ENSRNOG0000009768	neuropeptide Y Source RGD Symbol Acc 3197
E12	SBR1117087	ENSRNOT00000018154.5	Nr1h3	ENSRNOG0000013172	nuclear receptor subfamily 1, group H, member 3 Source RGD Symbol Acc 61909
F01	SBR1210315	ENSRNOT00000042117.6	Pdgfa	ENSRNOG0000001312	platelet derived growth factor subunit A Source RGD Symbol Acc 3282
F02	SBR1132695	ENSRNOT00000023196.5	Pdgfb	ENSRNOG0000017197	platelet derived growth factor subunit B Source RGD Symbol Acc 3283
F03	SBR1100630	ENSRNOT00000086033.1	Pdgfrb	ENSRNOG0000018461	platelet derived growth factor receptor beta Source RGD Symbol Acc 3285
F04	SBR1163064	ENSRNOT00000078928.1	Ppara	ENSRNOG0000021463	peroxisome proliferator activated receptor alpha Source RGD Symbol Acc 3369
F05	SBR1197924	ENSRNOT00000083109.1	Ppard	ENSRNOG0000000503	peroxisome proliferator-activated receptor delta Source RGD Symbol Acc 3370
F06	SBR1131520	ENSRNOT00000082969.1	Pparg	ENSRNOG0000008839	peroxisome proliferator-activated receptor gamma Source RGD Symbol Acc 3371
F07	SBR1187694	ENSRNOT00000010218.5	Ptgs1	ENSRNOG0000007415	prostaglandin-endoperoxide synthase 1 Source RGD Symbol Acc 3439
F08	SBR1218516	ENSRNOT00000012892.4	Rxra	ENSRNOG0000009446	retinoid X receptor alpha Source RGD Symbol Acc 3610
F09	SBR1131931	ENSRNOT00000076757.1	Sele	ENSRNOG0000002723	selectin E Source RGD Symbol Acc 3654
F10	SBR1185190	ENSRNOT00000003733.6	Sell	ENSRNOG0000002776	selectin L Source RGD Symbol Acc 3655

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1174453	ENSRNOT00000076879.2	Selp	ENSRNOG0000002794	selectin P Source RGD Symbol Acc 3656
F12	SBR1161756	ENSRNOT00000000888.5	Selp1g	ENSRNOG0000000699	selectin P ligand Source RGD Symbol Acc 1307971
G01	SBR1169254	ENSRNOT00000003409.5	Serp1b2	ENSRNOG0000002460	serpin family B member 2 Source RGD Symbol Acc 621823
G02	SBR1126485	ENSRNOT00000001916.2	Serp1e1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
G03	SBR1136942	ENSRNOT00000002885.6	Sod1	ENSRNOG0000002115	superoxide dismutase 1 Source RGD Symbol Acc 3731
G04	SBR1210860	ENSRNOT000000075989.1	Spp1	ENSRNOG00000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
G05	SBR1143485	ENSRNOT000000028051.4	Tgfb1	ENSRNOG00000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G06	SBR1164140	ENSRNOT000000087023.1	Tgfb2	ENSRNOG0000002418	transforming growth factor, beta 2 Source RGD Symbol Acc 70491
G07	SBR1122452	ENSRNOT000000065224.1	Thbs4	ENSRNOG00000012471	thrombospondin 4 Source RGD Symbol Acc 62046
G08	SBR1205819	ENSRNOT000000084563.1	Tnc	ENSRNOG00000058645	tenascin C Source RGD Symbol Acc 621057
G09	SBR1187845	ENSRNOT000000079677.1	LOC103694380	ENSRNOG0000005156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G10	SBR1189462	ENSRNOT000000077972.1	Vcam1	ENSRNOG00000014333	vascular cell adhesion molecule 1 Source RGD Symbol Acc 3952
G11	SBR1108862	ENSRNOT000000044163.4	Vegfa	ENSRNOG00000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G12	SBR1124386	ENSRNOT000000026643.7	Vwf	ENSRNOG00000019689	von Willebrand factor Source RGD Symbol Acc 621759
H01	SBR1220567	ENSRNOT000000042459.4	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT000000023017.5	B2m	ENSRNOG00000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT000000065935.3	Hprt1	ENSRNOG00000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT000000017468.2	Ldha	ENSRNOG00000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT000000018820.5	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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