

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

Rat Growth Factors

Cat. no. 249950 SBRN-041ZR

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	Amh	Artn	Bdnf	Bmp1	Bmp10	Bmp2	Bmp3	Bmp4	Bmp5	Bmp6	Bmp7	Bmp8a
B	Clcf1	Csf1	Csf2	Csf3	Cxcl1	Cxcl12	Egf	Ereg	Fgf1	Fgf10	Fgf11	Fgf13
C	Fgf14	Fgf19	Fgf17	Fgf18	Fgf2	Fgf22	Fgf3	Fgf4	Fgf5	Fgf6	Fgf7	Fgf8
D	Fgf9	Vegfd	Gdf10	Gdf11	Gdf5	Gdnf	Hgf	Igf1	Igf2	Il11	Il12a	Il18
E	Il1a	Il1b	Il2	Il3	Il4	Il6	Il7	Inha	Inhba	Inhbb	Kitlg	Lefty1
F	Lep	Lif	Mdk	Mtn	Ngf	Nodal	Nrg1	Ntf3	Ntf4	Pdgfa	Pgf	Rabep1
G	S100a6	Spp1	Tdgf1	Tff1	Tgfa	Tgfb1	Tgfb2	Tgfb3	Vegfa	Vegfb	Vegfc	Zfp91
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	SBR1161107	ENSRNOT00000026220.2	Amh	ENSRNOG0000019377	anti-Mullerian hormone Source RGD Symbol Acc 2108
A02	SBR1133613	ENSRNOT00000026852.3	Artn	ENSRNOG0000019842	artemin Source RGD Symbol Acc 621427
A03	SBR1172593	ENSRNOT00000083542.1	Bdnf	ENSRNOG0000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
A04	SBR1170880	ENSRNOT00000046054.4	Bmp1	ENSRNOG0000010890	bone morphogenetic protein 1 Source RGD Symbol Acc 620739
A05	SBR1153522	ENSRNOT00000012365.3	Bmp10	ENSRNOG0000009316	bone morphogenetic protein 10 Source RGD Symbol Acc 1562986
A06	SBR1127251	ENSRNOT00000028904.4	Bmp2	ENSRNOG0000021276	bone morphogenetic protein 2 Source RGD Symbol Acc 2211
A07	SBR1184728	ENSRNOT00000038872.3	Bmp3	ENSRNOG0000002381	bone morphogenetic protein 3 Source RGD Symbol Acc 2212
A08	SBR1132271	ENSRNOT00000012957.6	Bmp4	ENSRNOG0000009694	bone morphogenetic protein 4 Source RGD Symbol Acc 2213
A09	SBR1175011	ENSRNOT00000014846.5	Bmp5	ENSRNOG0000010917	bone morphogenetic protein 5 Source RGD Symbol Acc 1305979
A10	SBR1213989	ENSRNOT00000018359.7	Bmp6	ENSRNOG0000013717	bone morphogenetic protein 6 Source RGD Symbol Acc 2214
A11	SBR1093977	ENSRNOT00000084990.1	Bmp7	ENSRNOG0000053384	bone morphogenetic protein 7 Source RGD Symbol Acc 620743
A12	SBR1111676	ENSRNOT00000045922.2	Bmp8a	ENSRNOG0000030155	bone morphogenetic protein 8a Source RGD Symbol Acc 1585858
B01	SBR1173941	ENSRNOT00000025342.7	Clcf1	ENSRNOG0000018752	cardiotrophin-like cytokine factor 1 Source RGD Symbol Acc 1303171
B02	SBR1099651	ENSRNOT00000025222.6	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
B03	SBR1136894	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B04	SBR1124341	ENSRNOT00000011509.3	Csf3	ENSRNOG0000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B05	SBR1198580	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
B06	SBR1209894	ENSRNOT00000066670.3	Cxcl12	ENSRNOG0000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
B07	SBR1200927	ENSRNOT00000087007.1	Egf	ENSRNOG0000053979	epidermal growth factor Source RGD Symbol Acc 2542
B08	SBR1120104	ENSRNOT00000003716.3	Ereg	ENSRNOG0000002771	epiregulin Source RGD Symbol Acc 620299
B09	SBR1111274	ENSRNOT00000087408.1	Fgf1	ENSRNOG0000013867	fibroblast growth factor 1 Source RGD Symbol Acc 2605
B10	SBR1145306	ENSRNOT00000016485.3	Fgf10	ENSRNOG0000012278	fibroblast growth factor 10 Source RGD Symbol Acc 2606
B11	SBR1122404	ENSRNOT00000020152.3	Fgf11	ENSRNOG0000014882	fibroblast growth factor 11 Source RGD Symbol Acc 620162
B12	SBR1110705	ENSRNOT00000091330.1	Fgf13	ENSRNOG0000042753	fibroblast growth factor 13 Source RGD Symbol Acc 620164
C01	SBR1141274	ENSRNOT00000041551.5	Fgf14	ENSRNOG0000009288	fibroblast growth factor 14 Source RGD Symbol Acc 620165
C02	SBR1195376	ENSRNOT00000028365.2	Fgf19	ENSRNOG0000020899	fibroblast growth factor 19 Source RGD Symbol Acc 620166
C03	SBR1196214	ENSRNOT00000017723.2	Fgf17	ENSRNOG0000012912	fibroblast growth factor 17 Source RGD Symbol Acc 2607
C04	SBR1110129	ENSRNOT00000072297.2	Fgf18	ENSRNOG0000048389	fibroblast growth factor 18 Source MGI Symbol Acc MGI 1277980
C05	SBR1185708	ENSRNOT00000023388.5	Fgf2	ENSRNOG0000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
C06	SBR1160458	ENSRNOT00000011936.2	Fgf22	ENSRNOG0000008960	fibroblast growth factor 22 Source RGD Symbol Acc 620177
C07	SBR1167698	ENSRNOT00000028343.4	Fgf3	ENSRNOG0000020888	fibroblast growth factor 3 Source RGD Symbol Acc 620126
C08	SBR1161582	ENSRNOT00000028355.5	Fgf4	ENSRNOG0000020890	fibroblast growth factor 4 Source RGD Symbol Acc 620127
C09	SBR1164040	ENSRNOT00000035446.2	Fgf5	ENSRNOG0000022631	fibroblast growth factor 5 Source RGD Symbol Acc 620129
C10	SBR1103141	ENSRNOT00000081426.1	Fgf6	ENSRNOG0000053662	fibroblast growth factor 6 Source RGD Symbol Acc 620130
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1128388	012700.4	Fgf7	000009425	fibroblast growth factor 7 Source RGD Symbol Acc 61805
C12	SBR1151943	ENSRNOT00000023558.3	Fgf8	ENSRNOG0000017524	fibroblast growth factor 8 Source RGD Symbol Acc 70891
D01	SBR1156754	ENSRNOT00000015367.5	Fgf9	ENSRNOG00000011471	fibroblast growth factor 9 Source RGD Symbol Acc 2610
D02	SBR1202124	ENSRNOT00000068601.2	Vegfd	ENSRNOG0000003587	vascular endothelial growth factor D Source RGD Symbol Acc 620695
D03	SBR1154745	ENSRNOT00000081183.1	Gdf10	ENSRNOG00000051993	growth differentiation factor 10 Source RGD Symbol Acc 621512
D04	SBR1116530	ENSRNOT00000010035.3	Gdf11	ENSRNOG0000007610	growth differentiation factor 11 Source RGD Symbol Acc 2673
D05	SBR1201122	ENSRNOT00000071099.1	Gdf5	ENSRNOG0000050123	growth differentiation factor 5 Source RGD Symbol Acc 620102
D06	SBR1188150	ENSRNOT00000041288.2	Gdnf	ENSRNOG0000012819	glial cell derived neurotrophic factor Source RGD Symbol Acc 2677
D07	SBR1147127	ENSRNOT00000009763.5	Hgf	ENSRNOG0000007027	hepatocyte growth factor Source RGD Symbol Acc 2794
D08	SBR1185495	ENSRNOT00000038780.6	Igf1	ENSRNOG0000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
D09	SBR1106101	ENSRNOT00000050760.3	Igf2	ENSRNOG0000020369	insulin-like growth factor 2 Source RGD Symbol Acc 2870
D10	SBR1192221	ENSRNOT00000023489.5	Il11	ENSRNOG0000017386	interleukin 11 Source RGD Symbol Acc 621475
D11	SBR1107831	ENSRNOT00000012831.3	Il12a	ENSRNOG0000009468	interleukin 12A Source RGD Symbol Acc 620562
D12	SBR1183288	ENSRNOT00000013093.6	Il18	ENSRNOG0000009848	interleukin 18 Source RGD Symbol Acc 2889
E01	SBR1106125	ENSRNOT00000006113.8	Il1a	ENSRNOG0000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
E02	SBR1196387	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
E03	SBR1102170	ENSRNOT00000023327.2	Il2	ENSRNOG0000017348	interleukin 2 Source RGD Symbol Acc 620047
E04	SBR1198875	ENSRNOT00000031762.1	Il3	ENSRNOG0000026786	interleukin 3 Source RGD Symbol Acc 2897
E05	SBR1101847	ENSRNOT00000010029.3	Il4	ENSRNOG0000007624	interleukin 4 Source RGD Symbol Acc 2898
E06	SBR1156877	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
E07	SBR1129975	ENSRNOT00000016091.7	Il7	ENSRNOG0000011973	interleukin 7 Source RGD Symbol Acc 2904
E08	SBR1141256	ENSRNOT00000027227.4	Inha	ENSRNOG0000020097	inhibin subunit alpha Source RGD Symbol Acc 2912
E09	SBR1203713	ENSRNOT00000019272.5	Inhba	ENSRNOG0000014320	inhibin subunit beta A Source RGD Symbol Acc 62074
E10	SBR1205133	ENSRNOT00000086350.1	Inhbb	ENSRNOG0000060237	inhibin subunit beta B Source RGD Symbol Acc 2913
E11	SBR1164095	ENSRNOT00000085097.1	Kitlg	ENSRNOG0000005386	KIT ligand Source RGD Symbol Acc 3086
E12	SBR1190882	ENSRNOT00000004354.5	Lefty1	ENSRNOG0000003263	left right determination factor 1 Source RGD Symbol Acc 1561867
F01	SBR1209536	ENSRNOT00000071926.1	Lep	ENSRNOG0000045797	leptin Source RGD Symbol Acc 3000
F02	SBR1155933	ENSRNOT00000009313.4	Lif	ENSRNOG0000007002	LIF, interleukin 6 family cytokine Source RGD Symbol Acc 620865
F03	SBR1178481	ENSRNOT00000033978.3	Mdk	ENSRNOG0000017560	midkine Source RGD Symbol Acc 69073
F04	SBR1131840	ENSRNOT00000038093.3	Mstn	ENSRNOG0000021294	myostatin Source RGD Symbol Acc 3115
F05	SBR1142365	ENSRNOT00000078376.1	Ngf	ENSRNOG0000016571	nerve growth factor Source RGD Symbol Acc 1598328
F06	SBR1149225	ENSRNOT00000000672.4	Nodal	ENSRNOG0000000556	nodal growth differentiation factor Source RGD Symbol Acc 1305994
F07	SBR1158142	ENSRNOT00000014147.6	Nrg1	ENSRNOG0000010392	neuregulin 1 Source RGD Symbol Acc 621341
F08	SBR1142304	ENSRNOT00000082009.1	Ntf3	ENSRNOG0000019716	neurotrophin 3 Source RGD Symbol Acc 619728
F09	SBR1208936	ENSRNOT00000028194.2	Ntf4	ENSRNOG0000020783	neurotrophin 4 Source RGD Symbol Acc 3212
F10	SBR1210315	ENSRNOT00000042117.6	Pdgfra	ENSRNOG0000001312	platelet derived growth factor subunit A Source RGD Symbol Acc 3282

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1124947	ENSRNOT00000007790.5	Pgf	ENSRNOG0000005650	placental growth factor Source RGD Symbol Acc 619850
F12	SBR1197866	ENSRNOT00000041443.3	Rabep1	ENSRNOG0000005015	rabaptin, RAB GTPase binding effector protein 1 Source RGD Symbol Acc 708568
G01	SBR1171045	ENSRNOT00000015612.5	S100a6	ENSRNOG0000011647	S100 calcium binding protein A6 Source RGD Symbol Acc 620264
G02	SBR1210860	ENSRNOT00000075989.1	Spp1	ENSRNOG0000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
G03	SBR1158893	ENSRNOT00000040840.5	Tdgf1	ENSRNOG0000037171	teratocarcinoma-derived growth factor 1 Source RGD Symbol Acc 1594185
G04	SBR1152431	ENSRNOT00000001538.1	Tff1	ENSRNOG0000001164	trefoil factor 1 Source RGD Symbol Acc 620707
G05	SBR1118717	ENSRNOT00000057441.4	Tgfa	ENSRNOG0000016182	transforming growth factor alpha Source RGD Symbol Acc 3849
G06	SBR1143485	ENSRNOT00000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G07	SBR1164140	ENSRNOT00000087023.1	Tgfb2	ENSRNOG0000002418	transforming growth factor, beta 2 Source RGD Symbol Acc 70491
G08	SBR1115193	ENSRNOT00000013516.5	Tgfb3	ENSRNOG0000009867	transforming growth factor, beta 3 Source RGD Symbol Acc 3851
G09	SBR1108862	ENSRNOT00000044163.4	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G10	SBR1120785	ENSRNOT00000050891.3	Vegfb	ENSRNOG0000021156	vascular endothelial growth factor B Source RGD Symbol Acc 619799
G11	SBR1127903	ENSRNOT00000015529.4	Vegfc	ENSRNOG0000011416	vascular endothelial growth factor C Source RGD Symbol Acc 619800
G12	SBR1210309	ENSRNOT00000016804.6	Zfp91	ENSRNOG0000012524	zinc finger protein 91 Source RGD Symbol Acc 628736
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG00000034254	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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