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

Rat Wound Healing

Cat. no. 249950 SBRN-121ZR

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	Acta2	Actc1	Angpt1	Ccl12	Ccl7	Cd40lg	Cdh1	Col14a1	Col1a1	Col1a2	Col3a1	Col4a1
B	Col4a3	Col5a1	Col5a2	Col5a3	Csf2	Csf3	Ccn2	Ctnnb1	Ctsg	Ctsk	Ctsl	Cxcl1
C	Cxcl11	Cxcl3	Cxcl6	Egf	Egfr	F13a1	F3	Fga	Fgf10	Fgf2	Fgf7	Hbegf
D	Hgf	Ifng	Igf1	Il10	Il1b	Il2	Il4	Il6	Il6st	Itga1	Itga2	Itga3
E	Itga4	Itga5	Itga6	Itgav	Itgb1	Itgb3	Itgb5	Itgb6	Mapk1	Mapk3	LOC103694877	Mmp1
F	Mmp2	Mmp7	Mmp9	Pdgfa	Plat	Plau	Plaur	Plg	Pten	Ptgs2	Rac1	Rhoa
G	Serpine1	Stat3	Tagln	Tgfa	Tgfb1	Tgfbr3	Timp1	LOC103694380	Vegfa	Vtn	Ccn4	Wnt5a
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	SBR1176923	ENSRNOT00000083468.1	Acta2	ENSRNOG00000058039	actin, alpha 2, smooth muscle, aorta Source RGD Symbol Acc 621676
A02	SBR1156709	ENSRNOT00000011773.4	Actc1	ENSRNOG00000008536	actin, alpha, cardiac muscle 1 Source RGD Symbol Acc 2026
A03	SBR1097173	ENSRNOT00000007979.6	Angpt1	ENSRNOG00000005854	angiopoietin 1 Source RGD Symbol Acc 628896
A04	SBR1129555	ENSRNOT00000031626.5	Ccl12	ENSRNOG00000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A05	SBR1105598	ENSRNOT00000000256.4	Ccl7	ENSRNOG00000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
A06	SBR1110042	ENSRNOT00000001162.4	Cd40lg	ENSRNOG00000000871	CD40 ligand Source RGD Symbol Acc 708418
A07	SBR1170192	ENSRNOT00000027346.2	Cdh1	ENSRNOG00000020151	cadherin 1 Source RGD Symbol Acc 69279
A08	SBR1163347	ENSRNOT00000067649.3	Col14a1	ENSRNOG00000026415	collagen type XIV alpha 1 chain Source RGD Symbol Acc 1305806
A09	SBR1113220	ENSRNOT00000005311.6	Col1a1	ENSRNOG00000003897	collagen type I alpha 1 chain Source RGD Symbol Acc 61817
A10	SBR1097834	ENSRNOT00000089292.1	Col1a2	ENSRNOG00000011292	collagen type I alpha 2 chain Source RGD Symbol Acc 621351
A11	SBR1150486	ENSRNOT00000004956.4	Col3a1	ENSRNOG00000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
A12	SBR1106782	ENSRNOT00000057386.2	Col4a1	ENSRNOG00000016281	collagen type IV alpha 1 chain Source RGD Symbol Acc 1307148
B01	SBR1147922	ENSRNOT00000020669.5	Col4a3	ENSRNOG00000015365	collagen type IV alpha 3 chain Source RGD Symbol Acc 71085
B02	SBR1207090	ENSRNOT00000086352.1	Col5a1	ENSRNOG00000008749	collagen type V alpha 1 chain Source RGD Symbol Acc 70920
B03	SBR1216685	ENSRNOT00000005073.7	Col5a2	ENSRNOG00000003736	collagen type V alpha 2 chain Source RGD Symbol Acc 70921
B04	SBR1168261	ENSRNOT00000027897.4	Col5a3	ENSRNOG00000020525	collagen type V alpha 3 chain Source RGD Symbol Acc 70922
B05	SBR1136894	ENSRNOT00000032333.3	Csf2	ENSRNOG00000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B06	SBR1124341	ENSRNOT00000011509.3	Csf3	ENSRNOG00000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B07	SBR1133606	ENSRNOT00000089196.1	Ccn2	ENSRNOG00000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B08	SBR1143136	ENSRNOT00000079085.1	Ctnnb1	ENSRNOG00000054172	catenin beta 1 Source RGD Symbol Acc 70487
B09	SBR1152150	ENSRNOT00000059677.2	Ctsg	ENSRNOG00000020647	cathepsin G Source RGD Symbol Acc 1307681
B10	SBR1174118	ENSRNOT00000028730.6	Ctsk	ENSRNOG00000021155	cathepsin K Source RGD Symbol Acc 61810
B11	SBR1210366	ENSRNOT00000025462.6	Ctsl	ENSRNOG00000018566	cathepsin L Source RGD Symbol Acc 2448
B12	SBR1198580	ENSRNOT00000003778.3	Cxcl1	ENSRNOG00000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
C01	SBR1210202	ENSRNOT00000031667.4	Cxcl11	ENSRNOG00000022298	C-X-C motif chemokine ligand 11 Source RGD Symbol Acc 727827
C02	SBR1116913	ENSRNOT00000034090.3	Cxcl3	ENSRNOG00000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
C03	SBR1137423	ENSRNOT00000003823.3	Cxcl6	ENSRNOG00000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
C04	SBR1200927	ENSRNOT00000087007.1	Egf	ENSRNOG00000053979	epidermal growth factor Source RGD Symbol Acc 2542
C05	SBR1196436	ENSRNOT00000006087.2	Egfr	ENSRNOG00000004332	epidermal growth factor receptor Source RGD Symbol Acc 2543
C06	SBR1184783	ENSRNOT00000021568.4	F13a1	ENSRNOG00000015957	coagulation factor XIII A1 chain Source RGD Symbol Acc 621495
C07	SBR1148832	ENSRNOT00000015836.5	F3	ENSRNOG00000011800	coagulation factor III, tissue factor Source RGD Symbol Acc 2587
C08	SBR1198729	ENSRNOT00000064091.3	Fga	ENSRNOG00000024848	fibrinogen alpha chain Source RGD Symbol Acc 2603
C09	SBR1145306	ENSRNOT00000016485.3	Fgf10	ENSRNOG00000012278	fibroblast growth factor 10 Source RGD Symbol Acc 2606
C10	SBR1185708	ENSRNOT00000023388.5	Fgf2	ENSRNOG00000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1128388	012700.4	Fgf7	000009425	fibroblast growth factor 7 Source RGD Symbol Acc 61805
C12	SBR1150704	ENSRNOT00000 025157.6	Hbegf	ENSRNOG00 000018646	heparin-binding EGF-like growth factor Source RGD Symbol Acc 2526
D01	SBR1147127	ENSRNOT00000 009763.5	Hgf	ENSRNOG00 000007027	hepatocyte growth factor Source RGD Symbol Acc 2794
D02	SBR1108917	ENSRNOT00000 009919.2	Ifng	ENSRNOG00 000007468	interferon gamma Source RGD Symbol Acc 2866
D03	SBR1185495	ENSRNOT00000 038780.6	Igf1	ENSRNOG00 000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
D04	SBR1123238	ENSRNOT00000 006246.5	Il10	ENSRNOG00 000004647	interleukin 10 Source RGD Symbol Acc 2886
D05	SBR1196387	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D06	SBR1102170	ENSRNOT00000 023327.2	Il2	ENSRNOG00 000017348	interleukin 2 Source RGD Symbol Acc 620047
D07	SBR1101847	ENSRNOT00000 010029.3	Il4	ENSRNOG00 000007624	interleukin 4 Source RGD Symbol Acc 2898
D08	SBR1156877	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D09	SBR1177389	ENSRNOT00000 018877.7	Il6st	ENSRNOG00 000013963	interleukin 6 signal transducer Source RGD Symbol Acc 2903
D10	SBR1162885	ENSRNOT00000 086114.1	Itga1	ENSRNOG00 000053550	integrin subunit alpha 1 Source RGD Symbol Acc 2923
D11	SBR1203459	ENSRNOT00000 077401.1	Itga2	ENSRNOG00 000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
D12	SBR1140121	ENSRNOT00000 035894.7	Itga3	ENSRNOG00 000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
E01	SBR1153753	ENSRNOT00000 006880.6	Itga4	ENSRNOG00 000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
E02	SBR1211134	ENSRNOT00000 087748.1	Itga5	ENSRNOG00 000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
E03	SBR1106472	ENSRNOT00000 002075.4	Itga6	ENSRNOG00 000001518	integrin subunit alpha 6 Source RGD Symbol Acc 621633
E04	SBR1162857	ENSRNOT00000 006961.7	Itgav	ENSRNOG00 000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
E05	SBR1105686	ENSRNOT00000 014785.5	Itgb1	ENSRNOG00 000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
E06	SBR1124401	ENSRNOT00000 073350.2	Itgb3	ENSRNOG00 000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
E07	SBR1156192	ENSRNOT00000 076955.2	Itgb5	ENSRNOG00 000001795	integrin subunit beta 5 Source RGD Symbol Acc 628869
E08	SBR1162472	ENSRNOT00000 086576.1	Itgb6	ENSRNOG00 000008346	integrin subunit beta 6 Source RGD Symbol Acc 1303119
E09	SBR1202944	ENSRNOT00000 002533.7	Mapk1	ENSRNOG00 000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
E10	SBR1209281	ENSRNOT00000 087625.1	Mapk3	ENSRNOG00 000053583	mitogen activated protein kinase 3 Source RGD Symbol Acc 3046
E11	SBR1136891	ENSRNOT00000 008608.4	LOC10369 4877	ENSRNOG00 000006589	macrophage migration inhibitory factor Source RGD Symbol Acc 621163
E12	SBR1179779	ENSRNOT00000 012595.3	Mmp1	ENSRNOG00 000032353	matrix metallopeptidase 1 Source RGD Symbol Acc 1307917
F01	SBR1120605	ENSRNOT00000 022679.6	Mmp2	ENSRNOG00 000016695	matrix metallopeptidase 2 Source RGD Symbol Acc 621316
F02	SBR1116320	ENSRNOT00000 014041.5	Mmp7	ENSRNOG00 000010507	matrix metallopeptidase 7 Source RGD Symbol Acc 3100
F03	SBR1206750	ENSRNOT00000 023965.3	Mmp9	ENSRNOG00 000017539	matrix metallopeptidase 9 Source RGD Symbol Acc 621320
F04	SBR1210315	ENSRNOT00000 042117.6	Pdgfa	ENSRNOG00 000001312	platelet derived growth factor subunit A Source RGD Symbol Acc 3282
F05	SBR1162717	ENSRNOT00000 025763.6	Plat	ENSRNOG00 000019018	plasminogen activator, tissue type Source RGD Symbol Acc 3342
F06	SBR1186883	ENSRNOT00000 014273.5	Plau	ENSRNOG00 000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
F07	SBR1209735	ENSRNOT00000 075167.3	Plaur	ENSRNOG00 000037931	plasminogen activator, urokinase receptor Source RGD Symbol Acc 620597
F08	SBR1165120	ENSRNOT00000 080352.1	Plg	ENSRNOG00 000017223	plasminogen Source RGD Symbol Acc 619893
F09	SBR1174124	ENSRNOT00000 028143.3	Pten	ENSRNOG00 000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
F10	SBR1122148	ENSRNOT00000 003567.4	Ptgs2	ENSRNOG00 000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1123146	ENSRNOT00000001417.5	Rac1	ENSRNOG00000001068	Rac family small GTPase 1 Source RGD Symbol Acc 619755
F12	SBR1125110	ENSRNOT00000071664.2	Rhoa	ENSRNOG00000050519	ras homolog family member A Source RGD Symbol Acc 619921
G01	SBR1126485	ENSRNOT00000001916.2	Serpine1	ENSRNOG00000001414	serpin family E member 1 Source RGD Symbol Acc 3249
G02	SBR1138417	ENSRNOT00000026760.4	Stat3	ENSRNOG00000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G03	SBR1189114	ENSRNOT00000024030.6	Tagln	ENSRNOG00000017628	transgelin Source RGD Symbol Acc 3723
G04	SBR1118717	ENSRNOT00000057441.4	Tgfa	ENSRNOG00000016182	transforming growth factor alpha Source RGD Symbol Acc 3849
G05	SBR1143485	ENSRNOT00000028051.4	Tgfb1	ENSRNOG00000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G06	SBR1149356	ENSRNOT00000002867.4	Tgfbr3	ENSRNOG00000002093	transforming growth factor beta receptor 3 Source RGD Symbol Acc 61821
G07	SBR1154276	ENSRNOT00000013745.7	Timp1	ENSRNOG00000010208	TIMP metallopeptidase inhibitor 1 Source RGD Symbol Acc 621675
G08	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG00000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G09	SBR1108862	ENSRNOT00000044163.4	Vegfa	ENSRNOG00000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G10	SBR1184358	ENSRNOT00000039954.5	Vtn	ENSRNOG00000010031	vitronectin Source RGD Symbol Acc 3967
G11	SBR1172041	ENSRNOT00000009673.7	Ccn4	ENSRNOG00000007078	cellular communication network factor 4 Source RGD Symbol Acc 69431
G12	SBR1212833	ENSRNOT00000021164.3	Wnt5a	ENSRNOG00000015618	Wnt family member 5A Source RGD Symbol Acc 69250
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 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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