

QuantiNova® LNA® PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Rat Angiogenic Growth Factors

Cat. no. 249950 SBRN-072ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Adamts1	Aggf1	Anot	Angpt1	Angpt2	Angptl1	Angptl3	Angptl4	AABR0705842 2.1	Blg1	Cd55	Cd59
B	Cga	Chga	Cited1	Col18a1	Col4a3	Crhr2	Csf3	Cxcl10	Cxcl2	Cxcl6	Cxcl9	Egfl7
C	Erap1	Erb2	Ereg	Fgf1	Fgf2	Fn1	Foxm1	Foxo4	Fst	Glimn	Gm	Hey1
D	Hey2	Hgf	Hpse	Ifna5	Ifnb1	Ifng	Il12a	Il12b	Kdr	Lep	Rnh1	Mdk
E	Myocd	Ntrk2	Pdgfr	Pt4	Pgf	Ptg	Ppbb	Pri	Pri7d1	Ptn	Ptpri	LOC1083481 75
F	Rasa1	Rhob	Rnase4	Runx1	Serpinc1	Serpine1	Serpinf1	Shh	Smo	Tdgl1	Tgfa	Tgfb1
G	Thbs1	Tie1	Timp1	Timp2	Timp3	Timp4	LOC1036943 80	Tnni2	Tnni3	Vegfa	Wars2	Wt1
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	ENSRNOT00000002187.7	Adams1	ENSRNOG0000001607	ADAM metalloproteinase with thrombospondin type 1 motif, 1 Source RGD Symbol Acc 621241
A02	SBR1122083	ENSRNOT00000051653.5	Aggf1	ENSRNOG00000029304	angiogenic factor with G patch and FHA domains 1 Source RGD Symbol Acc 1310888
A03	SBR1152930	ENSRNOT00000090918.1	Amot	ENSRNOG0000007345	angiominin Source RGD Symbol Acc 1564027
A04	SBR1097173	ENSRNOT00000007979.6	Angpt1	ENSRNOG0000005854	angiopoietin 1 Source RGD Symbol Acc 628896
A05	SBR1190070	ENSRNOT00000022774.6	Angpt2	ENSRNOG0000016696	angiopoietin 2 Source RGD Symbol Acc 621861
A06	SBR1207412	ENSRNOT00000079152.1	Angptl1	ENSRNOG0000004712	angiopoietin-like 1 Source RGD Symbol Acc 1598128
A07	SBR1121978	ENSRNOT00000011486.6	Angptl3	ENSRNOG0000008638	angiopoietin-like 3 Source RGD Symbol Acc 1564505
A08	SBR1186322	ENSRNOT00000010031.6	Angptl4	ENSRNOG0000007545	angiopoietin-like 4 Source RGD Symbol Acc 735058
A09	SBR1140819	ENSRNOT00000076127.2	AABR07058422.1	ENSRNOG00000029450	
A10	SBR1117868	ENSRNOT00000005910.4	Btg1	ENSRNOG0000004284	BTG anti-proliferation factor 1 Source RGD Symbol Acc 2224
A11	SBR1156073	ENSRNOT00000005284.6	Cd55	ENSRNOG0000003927	CD55 molecule Source RGD Symbol Acc 620651
A12	SBR1177582	ENSRNOT00000067085.3	Cd59	ENSRNOG00000042821	CD59 molecule Source RGD Symbol Acc 2311
B01	SBR1113794	ENSRNOT00000012385.4	Cga	ENSRNOG0000009269	glycoprotein hormones, alpha polypeptide Source RGD Symbol Acc 620436
B02	SBR1129676	ENSRNOT00000090857.1	Chga	ENSRNOG00000052549	chromogranin A Source RGD Symbol Acc 2338
B03	SBR1163052	ENSRNOT00000004263.7	Cited1	ENSRNOG0000003189	Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1 Source RGD Symbol Acc 620781
B04	SBR1183732	ENSRNOT00000045315.4	Col18a1	ENSRNOG0000001229	collagen type XVIII alpha 1 chain Source RGD Symbol Acc 70936
B05	SBR1147922	ENSRNOT00000020669.5	Col4a3	ENSRNOG0000015365	collagen type IV alpha 3 chain Source RGD Symbol Acc 71085
B06	SBR1199401	ENSRNOT00000014925.5	Crh2	ENSRNOG0000011145	corticotropin releasing hormone receptor 2 Source RGD Symbol Acc 70547
B07	SBR1124341	ENSRNOT00000011509.3	Csf3	ENSRNOG0000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B08	SBR1153857	ENSRNOT00000003075.7	Cxcl10	ENSRNOG0000002256	C-X-C motif chemokine ligand 10 Source RGD Symbol Acc 620209
B09	SBR1132150	ENSRNOT00000003745.6	Cxcl2	ENSRNOG00000002792	C-X-C motif chemokine ligand 2 Source RGD Symbol Acc 70069
B10	SBR1137423	ENSRNOT00000003823.3	Cxcl6	ENSRNOG00000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
B11	SBR1174753	ENSRNOT00000003082.7	Cxcl9	ENSRNOG0000002242	C-X-C motif chemokine ligand 9 Source RGD Symbol Acc 628798
B12	SBR1194509	ENSRNOT00000026318.6	Egfl7	ENSRNOG0000019388	EGF-like-domain, multiple 7 Source RGD Symbol Acc 708507
C01	SBR1212949	ENSRNOT00000013625.5	Erap1	ENSRNOG0000009997	endoplasmic reticulum aminopeptidase 1 Source RGD Symbol Acc 708542
C02	SBR1175639	ENSRNOT00000049070.3	ErbB2	ENSRNOG0000006450	erb-b2 receptor tyrosine kinase 2 Source RGD Symbol Acc 2561
C03	SBR1120104	ENSRNOT00000003716.3	Ereg	ENSRNOG0000002771	epiregulin Source RGD Symbol Acc 620299
C04	SBR1111274	ENSRNOT000000087408.1	Fgf1	ENSRNOG0000013867	fibroblast growth factor 1 Source RGD Symbol Acc 2605
C05	SBR1185708	ENSRNOT00000023388.5	Fgf2	ENSRNOG0000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
C06	SBR1178912	ENSRNOT00000019772.6	Fn1	ENSRNOG0000014288	fibronectin 1 Source RGD Symbol Acc 2624
C07	SBR1211573	ENSRNOT00000008012.6	Foxm1	ENSRNOG0000005936	forkhead box M1 Source RGD Symbol Acc 61807
C08	SBR1150717	ENSRNOT00000048521.3	Foxo4	ENSRNOG0000003316	forkhead box O4 Source RGD Symbol Acc 1561201
C09	SBR1138330	ENSRNOT00000015680.4	Fst	ENSRNOG0000011631	folistatin Source RGD Symbol Acc 2633
C10	SBR1138955	ENSRNOT00000061583.3	Glmn	ENSRNOG0000002054	glomulin, FKBP associated protein Source RGD Symbol Acc 1588600
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1099007	028557.7	Grn	000021031	granulin precursor Source RGD Symbol Acc 61983
C12	SBR1112803	ENSRNOT00000015537.7	Hey1	ENSRNOG0000011593	hes-related family bHLH transcription factor with YRPW motif 1 Source NCBI gene Acc 155437
D01	SBR1143993	ENSRNOT00000018718.6	Hey2	ENSRNOG0000013364	hes-related family bHLH transcription factor with YRPW motif 2 Source RGD Symbol Acc 621405
D02	SBR1147127	ENSRNOT00000009763.5	Hgf	ENSRNOG0000007027	hepatocyte growth factor Source RGD Symbol Acc 2794
D03	SBR1096762	ENSRNOT00000002983.7	Hpse	ENSRNOG0000002188	heparanase Source RGD Symbol Acc 61969
D04	SBR1208793	ENSRNOT00000049705.1	Ifna5	ENSRNOG0000031046	interferon, alpha 5 Source RGD Symbol Acc 1359312
D05	SBR1104910	ENSRNOT00000008224.2	Ifnb1	ENSRNOG0000006268	interferon beta 1 Source RGD Symbol Acc 2865
D06	SBR1108917	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
D07	SBR1107831	ENSRNOT00000012831.3	Il12a	ENSRNOG0000009468	interleukin 12A Source RGD Symbol Acc 620562
D08	SBR1133771	ENSRNOT00000005898.6	Il12b	ENSRNOG0000004380	interleukin 12B Source RGD Symbol Acc 628704
D09	SBR1173378	ENSRNOT000000071405.2	Kdr	ENSRNOG0000046829	kinase insert domain receptor Source RGD Symbol Acc 2965
D10	SBR1209536	ENSRNOT000000071926.1	Lep	ENSRNOG0000045797	leptin Source RGD Symbol Acc 3000
D11	SBR1200660	ENSRNOT000000082284.1	Rnh1	ENSRNOG0000016416	ribonuclease/angiogenin inhibitor 1 Source RGD Symbol Acc 621398
D12	SBR1178481	ENSRNOT000000033978.3	Mdk	ENSRNOG0000017560	midkine Source RGD Symbol Acc 69073
E01	SBR1155560	ENSRNOT000000057562.3	Myocd	ENSRNOG0000003669	myocardin Source RGD Symbol Acc 631347
E02	SBR1097948	ENSRNOT000000090914.1	Ntrk2	ENSRNOG0000018839	neurotrophic receptor tyrosine kinase 2 Source RGD Symbol Acc 3213
E03	SBR1132695	ENSRNOT000000023196.5	Pdgfb	ENSRNOG0000017197	platelet derived growth factor subunit B Source RGD Symbol Acc 3283
E04	SBR1204196	ENSRNOT000000033406.1	Pf4	ENSRNOG0000028015	platelet factor 4 Source RGD Symbol Acc 3305
E05	SBR1124947	ENSRNOT000000007790.5	Pgf	ENSRNOG0000005650	placental growth factor Source RGD Symbol Acc 619850
E06	SBR1165120	ENSRNOT000000080352.1	Plg	ENSRNOG0000017223	plasminogen Source RGD Symbol Acc 619893
E07	SBR1101427	ENSRNOT000000003794.3	Ppbp	ENSRNOG0000002829	pro-platelet basic protein Source RGD Symbol Acc 70548
E08	SBR1190561	ENSRNOT000000023412.4	Prl	ENSRNOG0000017374	prolactin Source RGD Symbol Acc 3403
E09	SBR1208157	ENSRNOT000000081739.1	Prl7d1	ENSRNOG0000016510	prolactin family 7, subfamily d, member 1 Source RGD Symbol Acc 621307
E10	SBR1167990	ENSRNOT000000016088.6	Ptn	ENSRNOG0000011946	pleiotrophin Source RGD Symbol Acc 3444
E11	SBR1143870	ENSRNOT000000049832.5	Ptprj	ENSRNOG0000034025	protein tyrosine phosphatase, receptor type, J Source RGD Symbol Acc 3454
E12	SBR1214404	ENSRNOT000000023290.6	LOC108348175	ENSRNOG0000048297	protein quaking-like Source RGD Symbol Acc 11514364
F01	SBR1192086	ENSRNOT000000046251.2	Rasa1	ENSRNOG0000029185	RAS p21 protein activator 1 Source RGD Symbol Acc 3537
F02	SBR1104546	ENSRNOT000000008008.3	Rhob	ENSRNOG0000021403	ras homolog family member B Source RGD Symbol Acc 621309
F03	SBR1121400	ENSRNOT000000041495.4	Rnase4	ENSRNOG0000025625	ribonuclease A family member 4 Source RGD Symbol Acc 61823
F04	SBR1123632	ENSRNOT000000002313.4	Runx1	ENSRNOG0000001704	runt-related transcription factor 1 Source RGD Symbol Acc 2283
F05	SBR1152966	ENSRNOT000000076043.1	Serpinc1	ENSRNOG0000002783	serpin family C member 1 Source RGD Symbol Acc 1307404
F06	SBR1126485	ENSRNOT000000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
F07	SBR1135458	ENSRNOT000000004313.5	Serpinf1	ENSRNOG0000003172	serpin family F member 1 Source RGD Symbol Acc 631369
F08	SBR1130647	ENSRNOT000000008497.2	Shh	ENSRNOG0000006120	sonic hedgehog signaling molecule Source RGD Symbol Acc 3673
F09	SBR1198492	ENSRNOT000000080223.1	Smo	ENSRNOG0000008332	smoothened, frizzled class receptor Source RGD Symbol Acc 3726
F10	SBR1158893	ENSRNOT000000040840.5	Tdgf1	ENSRNOG0000037171	teratocarcinoma-derived growth factor 1 Source RGD Symbol Acc 1594185

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1118717	ENSRNOT00000057441.4	Tgfa	ENSRNOG00000016182	transforming growth factor alpha Source RGD Symbol Acc 3849
F12	SBR1143485	ENSRNOT00000028051.4	Tgfb1	ENSRNOG00000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G01	SBR1160692	ENSRNOT00000083351.1	Thbs1	ENSRNOG00000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G02	SBR1144005	ENSRNOT00000093097.1	Tie1	ENSRNOG00000020173	tyrosine kinase with immunoglobulin-like and EGF-like domains 1 Source RGD Symbol Acc 621642
G03	SBR1154276	ENSRNOT00000013745.7	Timp1	ENSRNOG00000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
G04	SBR1123842	ENSRNOT00000004290.4	Timp2	ENSRNOG00000003148	TIMP metalloproteinase inhibitor 2 Source RGD Symbol Acc 61312
G05	SBR1140756	ENSRNOT00000005746.5	Timp3	ENSRNOG00000004303	TIMP metalloproteinase inhibitor 3 Source RGD Symbol Acc 3865
G06	SBR1100003	ENSRNOT00000010748.7	Timp4	ENSRNOG0000007955	TIMP metalloproteinase inhibitor 4 Source RGD Symbol Acc 69077
G07	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG00000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G08	SBR1169272	ENSRNOT00000027487.7	Tnni2	ENSRNOG00000020276	troponin I2, fast skeletal type Source RGD Symbol Acc 62050
G09	SBR1096287	ENSRNOT00000024640.5	Tnni3	ENSRNOG00000018250	troponin I3, cardiac type Source RGD Symbol Acc 62052
G10	SBR1108862	ENSRNOT00000044163.4	Vegfa	ENSRNOG00000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G11	SBR1160623	ENSRNOT00000026458.6	Wars2	ENSRNOG00000019508	tryptophanyl tRNA synthetase 2 (mitochondrial) Source RGD Symbol Acc 1593417
G12	SBR1166666	ENSRNOT00000067940.3	Wt1	ENSRNOG00000013074	Wilms tumor 1 Source RGD Symbol Acc 3974
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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