

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

Rat Glucocorticoid Signaling

Cat. no. 249950 SBRN-154ZA

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	Adarb1	Aif1	Ak2	Ampd3	Angptl4	Anxa4	Aqp1	Arid5b	Asph	Aif4	Bcl6	Bmper
B	Calcr	Cebpa	Cebpb	Col4a2	Creb1	Creb3	Creb3l4	Ccn2	Cyb561	Ddit4	Diros2	Dusp1
C	Edn1	Ehd3	Errf1	Fkbp5	Fosl2	Gdpd1	Ghrhr	Glul	Got1	H6pd	Has2	Hnrnp1l
D	Il10	Il1rn	Il6	Il6r	Klf13	Klf9	Lox	Merk	AC128848.1	Mir2A	Nikbia	AABR0703175 6.1
E	Pcdh7	Pdgfrb	Pdp1	Per1	Per2	Pik3r1	Pld1	Plekhf1	Pou2f1	Pou2f2	Rasa3	Rgs2
F	Rhob	Rhoj	Sesn1	Sgk1	Sic10a6	Sic19a2	Sic22a5	Snta1	Sphk1	Spsb1	Stat5a	Stat5b
G	Tbl1xr1	LOC103694380	Tp53inp1	Tsc22d3	Usp2	Usp54	Vdr	Vidlr	Xdh	Zfp281	Zfp36	Zhx3
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	Q1C	Q1C	PPC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBR1136212	ENSRNOT00000 001642.6	Adarb1	ENSRNOG00 000001227	adenosine deaminase, RNA-specific, B1 Source RGD Symbol Acc 2033
A02	SBR1101724	ENSRNOT00000 086694.1	Aff1	ENSRNOG00 000002232	AF4/FMR2 family, member 1 Source RGD Symbol Acc 1307940
A03	SBR1190946	ENSRNOT00000 000134.4	Ak2	ENSRNOG00 000000122	adenylyl kinase 2 Source RGD Symbol Acc 2077
A04	SBR1141213	ENSRNOT00000 024933.5	Ampd3	ENSRNOG00 000018262	adenosine monophosphate deaminase 3 Source RGD Symbol Acc 2111
A05	SBR1186322	ENSRNOT00000 010031.6	Angptl4	ENSRNOG00 000007545	angiopoietin-like 4 Source RGD Symbol Acc 735058
A06	SBR1111339	ENSRNOT00000 024436.7	Anxa4	ENSRNOG00 000018159	annexin A4 Source RGD Symbol Acc 621171
A07	SBR1204719	ENSRNOT00000 015692.2	Aqp1	ENSRNOG00 000011648	aquaporin 1 Source RGD Symbol Acc 2141
A08	SBR1115856	ENSRNOT00000 076069.1	Arid5b	ENSRNOG00 000000635	AT-rich interaction domain 5B Source RGD Symbol Acc 1311735
A09	SBR1161959	ENSRNOT00000 077044.2	Asph	ENSRNOG00 000007445	aspartate-beta-hydroxylase Source RGD Symbol Acc 1312000
A10	SBR1186510	ENSRNOT00000 065304.4	Aff4	ENSRNOG00 000017801	activating transcription factor 4 Source RGD Symbol Acc 621863
A11	SBR1158306	ENSRNOT00000 002522.4	Bcl6	ENSRNOG00 000001843	BCL6, transcription repressor Source RGD Symbol Acc 1309345
A12	SBR1178399	ENSRNOT00000 033460.5	Bmp4	ENSRNOG00 000015357	BMP-binding endothelial regulator Source RGD Symbol Acc 1563373
B01	SBR1164468	ENSRNOT00000 013937.5	Calcr	ENSRNOG00 000010053	calcitonin receptor Source RGD Symbol Acc 621001
B02	SBR1144323	ENSRNOT00000 014517.5	Cebpa	ENSRNOG00 000010918	CCAAT/enhancer binding protein alpha Source RGD Symbol Acc 2326
B03	SBR1114232	ENSRNOT00000 083876.1	Cebpb	ENSRNOG00 000057347	CCAAT/enhancer binding protein beta Source RGD Symbol Acc 2327
B04	SBR1191843	ENSRNOT00000 057461.4	Col4a2	ENSRNOG00 000023972	collagen type IV alpha 2 chain Source RGD Symbol Acc 1308085
B05	SBR1179341	ENSRNOT00000 049654.4	Creb1	ENSRNOG00 000013412	cAMP responsive element binding protein 1 Source RGD Symbol Acc 620218
B06	SBR1185525	ENSRNOT00000 085311.1	Creb3	ENSRNOG00 000016452	cAMP responsive element binding protein 3 Source RGD Symbol Acc 1308831
B07	SBR1122169	ENSRNOT00000 032062.4	Creb3l4	ENSRNOG00 000023493	cAMP responsive element binding protein 3-like 4 Source RGD Symbol Acc 1359278
B08	SBR1133606	ENSRNOT00000 089196.1	Ccn2	ENSRNOG00 000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B09	SBR1155250	ENSRNOT00000 092738.1	Cyb561	ENSRNOG00 000007433	cytochrome b-561 Source RGD Symbol Acc 1310987
B10	SBR1144588	ENSRNOT00000 085026.1	Ddit4	ENSRNOG00 000057078	DNA-damage-inducible transcript 4 Source RGD Symbol Acc 621731
B11	SBR1206082	ENSRNOT00000 044842.2	Diras2	ENSRNOG00 000032328	DIRAS family GTPase 2 Source RGD Symbol Acc 1305580
B12	SBR1102337	ENSRNOT00000 005383.5	Dusp1	ENSRNOG00 000003977	dual specificity phosphatase 1 Source RGD Symbol Acc 620897
C01	SBR1168689	ENSRNOT00000 019361.2	Edn1	ENSRNOG00 000014361	endothelin 1 Source RGD Symbol Acc 2532
C02	SBR1213530	ENSRNOT00000 010419.3	Ehd3	ENSRNOG00 000007744	EH-domain containing 3 Source RGD Symbol Acc 621762
C03	SBR1131422	ENSRNOT00000 085315.1	Errfi1	ENSRNOG00 000058186	ERBB receptor feedback inhibitor 1 Source RGD Symbol Acc 1307599
C04	SBR1101312	ENSRNOT00000 033119.5	Fkbp5	ENSRNOG00 000022523	FKBP prolyl isomerase 5 Source RGD Symbol Acc 1309155
C05	SBR1154542	ENSRNOT00000 077894.1	Fosl2	ENSRNOG00 000052357	FOS like 2, AP-1 transcription factor subunit Source RGD Symbol Acc 2628
C06	SBR1158113	ENSRNOT00000 079311.1	Gdpd1	ENSRNOG00 000060561	glycerophosphodiester phosphodiesterase domain containing 1 Source RGD Symbol Acc 1311813
C07	SBR1120020	ENSRNOT00000 044578.2	Ghrhr	ENSRNOG00 000011808	growth hormone releasing hormone receptor Source RGD Symbol Acc 2688
C08	SBR1200434	ENSRNOT00000 075480.2	Glul	ENSRNOG00 000049560	glutamate-ammonia ligase Source RGD Symbol Acc 2710
C09	SBR1182688	ENSRNOT00000 022309.7	Got1	ENSRNOG00 000016356	glutamic-oxaloacetic transaminase 1 Source RGD Symbol Acc 2721
C10	SBR1212355	ENSRNOT00000 023543.5	H6pd	ENSRNOG00 000017523	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) Source RGD Symbol Acc 1306562
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1173111	006517.4	Has2	000004854	hyaluronan synthase 2 Source RGD Symbol Acc 2781
C12	SBR1202186	ENSRNOT00000 009175.6	Hnrnpll	ENSRNOG00 000006929	heterogeneous nuclear ribonucleoprotein L-like Source RGD Symbol Acc 1305861
D01	SBR1123238	ENSRNOT00000 006246.5	Il10	ENSRNOG00 000004647	interleukin 10 Source RGD Symbol Acc 2886
D02	SBR1111330	ENSRNOT00000 007949.6	Il1rn	ENSRNOG00 000005871	interleukin 1 receptor antagonist Source RGD Symbol Acc 621159
D03	SBR1156877	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D04	SBR1135762	ENSRNOT00000 028234.7	Il6r	ENSRNOG00 000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
D05	SBR1163892	ENSRNOT00000 066380.1	Klf13	ENSRNOG00 000015822	Kruppel-like factor 13 Source RGD Symbol Acc 1565099
D06	SBR1172167	ENSRNOT00000 019367.2	Klf9	ENSRNOG00 000014215	Kruppel-like factor 9 Source RGD Symbol Acc 70934
D07	SBR1129018	ENSRNOT00000 019844.6	Lox	ENSRNOG00 000014426	lysyl oxidase Source RGD Symbol Acc 3015
D08	SBR1139919	ENSRNOT00000 023419.4	Mertk	ENSRNOG00 000017319	MER proto-oncogene, tyrosine kinase Source RGD Symbol Acc 69283
D09	SBR1218534	ENSRNOT00000 038212.5	AC128848. 1	ENSRNOG00 000025764	
D10	SBR1194539	ENSRNOT00000 067391.1	Mt2A	ENSRNOG00 000043098	metallothionein 2A Source RGD Symbol Acc 1592345
D11	SBR1120974	ENSRNOT00000 009894.6	Nfkbia	ENSRNOG00 000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
D12	SBR1127733	ENSRNOT00000 044287.4	AABR0703	ENSRNOG00 1756.1	nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413
E01	SBR1152356	ENSRNOT00000 019258.6	Pcd7	ENSRNOG00 000014340	programmed cell death 7 Source RGD Symbol Acc 1308961
E02	SBR1100630	ENSRNOT00000 086033.1	Pdgfrb	ENSRNOG00 000018461	platelet derived growth factor receptor beta Source RGD Symbol Acc 3285
E03	SBR1121695	ENSRNOT00000 090376.1	Pdp1	ENSRNOG00 000016180	pyruvate dehydrogenase phosphatase catalytic subunit 1 Source RGD Symbol Acc 620393
E04	SBR1195211	ENSRNOT00000 057136.3	Per1	ENSRNOG00 000007387	period circadian regulator 1 Source RGD Symbol Acc 727863
E05	SBR1143862	ENSRNOT00000 027506.5	Per2	ENSRNOG00 000020254	period circadian regulator 2 Source RGD Symbol Acc 61945
E06	SBR1155861	ENSRNOT00000 025687.7	Pik3r1	ENSRNOG00 000018903	phosphoinositide-3-kinase regulatory subunit 1 Source RGD Symbol Acc 3329
E07	SBR1102001	ENSRNOT00000 091545.1	Pld1	ENSRNOG00 000028156	phospholipase D1 Source RGD Symbol Acc 3349
E08	SBR1097739	ENSRNOT00000 020383.5	Plekhf1	ENSRNOG00 000027724	pleckstrin homology and FYVE domain containing 1 Source RGD Symbol Acc 1310544
E09	SBR1137967	ENSRNOT00000 087096.1	Pou2f1	ENSRNOG00 000003581	POU class 2 homeobox 1 Source RGD Symbol Acc 621689
E10	SBR1199068	ENSRNOT00000 087572.1	Pou2f2	ENSRNOG00 000055650	POU class 2 homeobox 2 Source RGD Symbol Acc 621690
E11	SBR1202609	ENSRNOT00000 080963.2	Rasa3	ENSRNOG00 000017671	RAS p21 protein activator 3 Source RGD Symbol Acc 69365
E12	SBR1199490	ENSRNOT00000 005156.6	Rgs2	ENSRNOG00 000003687	regulator of G-protein signaling 2 Source RGD Symbol Acc 621665
F01	SBR1104546	ENSRNOT00000 008008.3	Rhob	ENSRNOG00 000021403	ras homolog family member B Source RGD Symbol Acc 621309
F02	SBR1150122	ENSRNOT00000 031979.4	Rhoj	ENSRNOG00 000021919	ras homolog family member J Source RGD Symbol Acc 1310528
F03	SBR1202565	ENSRNOT00000 065890.1	Sesn1	ENSRNOG00 000000302	sestrin 1 Source RGD Symbol Acc 1307517
F04	SBR1176764	ENSRNOT00000 016121.5	Sgk1	ENSRNOG00 000011815	serum/glucocorticoid regulated kinase 1 Source RGD Symbol Acc 3668
F05	SBR1098322	ENSRNOT00000 088508.1	Slc10a6	ENSRNOG00 000002057	solute carrier family 10 member 6 Source RGD Symbol Acc 727800
F06	SBR1196079	ENSRNOT00000 076722.2	Slc19a2	ENSRNOG00 000002839	solute carrier family 19 member 2 Source RGD Symbol Acc 1308611
F07	SBR1118779	ENSRNOT00000 081898.1	Slc22a5	ENSRNOG00 000008432	solute carrier family 22 member 5 Source RGD Symbol Acc 3702
F08	SBR1098054	ENSRNOT00000 021715.6	Snta1	ENSRNOG00 000016062	syntrophin, alpha 1 Source RGD Symbol Acc 1307068
F09	SBR1204599	ENSRNOT00000 032163.5	Sphk1	ENSRNOG00 000010626	sphingosine kinase 1 Source RGD Symbol Acc 620048
F10	SBR1109689	ENSRNOT00000 023287.5	Spsb1	ENSRNOG00 000017212	splA/ryanodine receptor domain and SOCS box containing 1 Source RGD Symbol Acc 1309319

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1147063	ENSRNOT00000 026662.3	Stat5a	ENSRNOG00 000019496	signal transducer and activator of transcription 5A Source RGD Symbol Acc 3773
F12	SBR1101487	ENSRNOT00000 081247.1	Stat5b	ENSRNOG00 000019075	signal transducer and activator of transcription 5B Source RGD Symbol Acc 3774
G01	SBR1178609	ENSRNOT00000 015573.4	Tbl1xr1	ENSRNOG00 000011216	transducin (beta)-like 1 X-linked receptor 1 Source RGD Symbol Acc 1560053
G02	SBR1187845	ENSRNOT00000 079677.1	LOC10369 4380	ENSRNOG00 00005156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G03	SBR1176636	ENSRNOT00000 010591.4	Tp53inp1	ENSRNOG00 000007964	tumor protein p53 inducible nuclear protein 1 Source RGD Symbol Acc 631423
G04	SBR1123278	ENSRNOT00000 085118.1	Tsc22d3	ENSRNOG00 000056135	TSC22 domain family, member 3 Source RGD Symbol Acc 621654
G05	SBR1193112	ENSRNOT00000 036051.6	Usp2	ENSRNOG00 000006663	ubiquitin specific peptidase 2 Source RGD Symbol Acc 621073
G06	SBR1156482	ENSRNOT00000 083467.1	Usp54	ENSRNOG00 000027012	ubiquitin specific peptidase 54 Source RGD Symbol Acc 1303206
G07	SBR1167735	ENSRNOT00000 082429.1	Vdr	ENSRNOG00 000054420	vitamin D receptor Source RGD Symbol Acc 3959
G08	SBR1213919	ENSRNOT00000 035814.3	Vldlr	ENSRNOG00 000027491	very low density lipoprotein receptor Source RGD Symbol Acc 3963
G09	SBR1150107	ENSRNOT00000 009634.6	Xdh	ENSRNOG00 000007081	xanthine dehydrogenase Source RGD Symbol Acc 62043
G10	SBR1135946	ENSRNOT00000 088133.1	Zfp281	ENSRNOG00 000058643	zinc finger protein 281 Source RGD Symbol Acc 1305139
G11	SBR1127302	ENSRNOT00000 090129.2	Zfp36	ENSRNOG00 000058388	zinc finger protein 36 Source RGD Symbol Acc 620722
G12	SBR1128003	ENSRNOT00000 032588.5	Zhx3	ENSRNOG00 000027988	zinc fingers and homeoboxes 3 Source RGD Symbol Acc 631431
H01	SBR1220567	ENSRNOT00000 042459.4	Actb	ENSRNOG00 000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT00000 023017.5	B2m	ENSRNOG00 000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT00000 065935.3	Hprt1	ENSRNOG00 000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT00000 017468.2	Ldha	ENSRNOG00 000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT00000 018820.5	Rplp1	ENSRNOG00 000013874	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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