

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

Rat Obesity

Cat. no. 249950 SBRN-017ZR

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	Adcyap1	Adcyap1r1	Adipoq	Adipor1	Adipor2	Adra2b	Adrb1	Agrp	Apoa4	Atrn	Bdnf	Brs3
B	C3	Calca	Calcr	Car1pt	Cck	Cckar	Clps	Cnr1	Cnff	Cnfr	Crh	Crhr1
C	Drd1	Drd2	Gal	Galr1	Gcg	Gcgr	Gh1	Ghr	Ghr1	Ghsr	Gip1r	Grp
D	Grpr	Hcr1	Hchr1	Hrh1	Htr2c	Iapp	Il1a	Il1b	Il1r1	Il6	Il6r	Ins1
E	Ins2	Insr	Lep	Lepr	Mc3r	Mchr1	Nmb	Nmbr	Nmu	Nmur1	LOC1009122 28	Npy1r
F	AABR0703175 6.1	Ntrk1	Nts	Ntsr1	Oprk1	Oprm1	Pomc	Ppara	Pparg	Ppargc1a	Prlhr	Ptpn1
G	Pyy	Ramp3	Sigmar1	Sort1	Sst	Sstr1	Thrb	LOC1036943 80	Trh	Trhr	Ucn	Ucp1
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	SBR1134438	ENSRNOT00000073432.2	Adcyap1	ENSRNOG0000049882	adenylate cyclase activating polypeptide 1 Source RGD Symbol Acc 2037
A02	SBR1112429	ENSRNOT00000016175.5	Adcyap1r1	ENSRNOG0000012098	ADCYAP receptor type 1 Source RGD Symbol Acc 2038
A03	SBR1209814	ENSRNOT00000002492.5	Adipoq	ENSRNOG0000001821	adiponectin, C1Q and collagen domain containing Source RGD Symbol Acc 628748
A04	SBR1163886	ENSRNOT00000005551.4	Adipor1	ENSRNOG0000004143	adiponectin receptor 1 Source RGD Symbol Acc 1303151
A05	SBR1107135	ENSRNOT00000010556.5	Adipor2	ENSRNOG0000007990	adiponectin receptor 2 Source RGD Symbol Acc 1307891
A06	SBR1108893	ENSRNOT00000018584.6	Adra2b	ENSRNOG0000013887	adrenoceptor alpha 2B Source RGD Symbol Acc 2057
A07	SBR1141749	ENSRNOT00000022813.2	Adrb1	ENSRNOG0000017002	adrenoceptor beta 1 Source RGD Symbol Acc 2059
A08	SBR1101774	ENSRNOT00000059628.3	AgRP	ENSRNOG0000039001	agouti related neuropeptide Source RGD Symbol Acc 2068
A09	SBR1099412	ENSRNOT00000080658.1	Apoa4	ENSRNOG0000055909	apolipoprotein A4 Source RGD Symbol Acc 2132
A10	SBR1132525	ENSRNOT00000028847.4	Atrn	ENSRNOG0000021240	attractin Source RGD Symbol Acc 69063
A11	SBR1172593	ENSRNOT00000083542.1	Bdnf	ENSRNOG0000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
A12	SBR1178181	ENSRNOT00000001164.5	Brs3	ENSRNOG0000000873	bombesin receptor subtype 3 Source RGD Symbol Acc 628645
B01	SBR1177146	ENSRNOT00000073042.3	C3	ENSRNOG0000046834	complement C3 Source RGD Symbol Acc 2232
B02	SBR1193989	ENSRNOT00000055124.4	Calca	ENSRNOG0000011130	calcitonin-related polypeptide alpha Source RGD Symbol Acc 2254
B03	SBR1164468	ENSRNOT00000013937.5	Calcr	ENSRNOG0000010053	calcitonin receptor Source RGD Symbol Acc 621001
B04	SBR1104621	ENSRNOT00000023869.2	Cartpt	ENSRNOG0000017712	CART prepropeptide Source RGD Symbol Acc 2272
B05	SBR1126863	ENSRNOT00000026159.3	Cck	ENSRNOG0000019321	cholecystokinin Source RGD Symbol Acc 2288
B06	SBR1145253	ENSRNOT00000065366.2	Cckar	ENSRNOG0000043124	cholecystokinin A receptor Source RGD Symbol Acc 2289
B07	SBR1183821	ENSRNOT00000000611.4	Clps	ENSRNOG0000000510	colipase Source RGD Symbol Acc 2363
B08	SBR1112580	ENSRNOT00000010850.2	Cnr1	ENSRNOG0000008223	cannabinoid receptor 1 Source RGD Symbol Acc 2369
B09	SBR1188692	ENSRNOT00000016690.2	Cnif	ENSRNOG0000012460	ciliary neurotrophic factor Source RGD Symbol Acc 2370
B10	SBR1137541	ENSRNOT00000075777.2	Cnifr	ENSRNOG0000047307	ciliary neurotrophic factor receptor Source RGD Symbol Acc 1303100
B11	SBR1106994	ENSRNOT00000016953.2	Crh	ENSRNOG0000012703	corticotropin releasing hormone Source RGD Symbol Acc 620505
B12	SBR1200775	ENSRNOT00000006764.7	Crhr1	ENSRNOG0000004900	corticotropin releasing hormone receptor 1 Source RGD Symbol Acc 61276
C01	SBR1169120	ENSRNOT00000030893.3	Drd1	ENSRNOG0000023688	dopamine receptor D1 Source RGD Symbol Acc 2518
C02	SBR1132727	ENSRNOT00000083419.1	Drd2	ENSRNOG0000008428	dopamine receptor D2 Source RGD Symbol Acc 2520
C03	SBR1161425	ENSRNOT00000020425.5	Gal	ENSRNOG0000015156	galanin and GMAP prepropeptide Source RGD Symbol Acc 61954
C04	SBR1174404	ENSRNOT00000022401.2	Galr1	ENSRNOG0000016654	galanin receptor 1 Source RGD Symbol Acc 2656
C05	SBR1140458	ENSRNOT00000007356.4	Gcg	ENSRNOG0000005498	glucagon Source RGD Symbol Acc 2668
C06	SBR1141470	ENSRNOT00000054962.2	Gcgr	ENSRNOG0000036692	glucagon receptor Source RGD Symbol Acc 2669
C07	SBR1112037	ENSRNOT00000015818.5	Gh1	ENSRNOG0000011207	growth hormone 1 Source RGD Symbol Acc 2686
C08	SBR1131686	ENSRNOT00000021081.6	Ghr	ENSRNOG0000015654	growth hormone receptor Source RGD Symbol Acc 2687
C09	SBR1139904	ENSRNOT00000014103.1	Ghrl	ENSRNOG0000010349	ghrelin and obestatin prepropeptide Source RGD Symbol Acc 632283
C10	SBR1143798	ENSRNOT00000034960.1	Ghsr	ENSRNOG0000024119	growth hormone secretagogue receptor Source RGD Symbol Acc 621397
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1107659	079509.1	Glp1r	000001152	glucagon-like peptide 1 receptor Source RGD Symbol Acc 2703
C12	SBR1110645	ENSRNOT00000 022845.2	Grp	ENSRNOG00 000016999	gastrin releasing peptide Source RGD Symbol Acc 621740
D01	SBR1122754	ENSRNOT00000 005559.6	Grpr	ENSRNOG00 000004124	gastrin releasing peptide receptor Source RGD Symbol Acc 2750
D02	SBR1200379	ENSRNOT00000 025547.3	Hcrt	ENSRNOG00 000018892	hypocretin neuropeptide precursor Source RGD Symbol Acc 2786
D03	SBR1146951	ENSRNOT00000 018674.6	Hcrt1	ENSRNOG00 000013838	hypocretin receptor 1 Source RGD Symbol Acc 2787
D04	SBR1207863	ENSRNOT00000 009775.4	Hrh1	ENSRNOG00 000007420	histamine receptor H 1 Source RGD Symbol Acc 2830
D05	SBR1201144	ENSRNOT00000 090922.1	Htr2c	ENSRNOG00 000030877	5-hydroxytryptamine receptor 2C Source RGD Symbol Acc 2848
D06	SBR1169712	ENSRNOT00000 016614.4	Iapp	ENSRNOG00 000012417	islet amyloid polypeptide Source RGD Symbol Acc 2854
D07	SBR1106125	ENSRNOT00000 006113.8	Il1a	ENSRNOG00 000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
D08	SBR1196387	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D09	SBR1113457	ENSRNOT00000 019673.4	Il1r1	ENSRNOG00 000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D10	SBR1156877	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D11	SBR1135762	ENSRNOT00000 028234.7	Il6r	ENSRNOG00 000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
D12	SBR1148811	ENSRNOT00000 016052.5	Ins1	ENSRNOG00 000012052	insulin 1 Source RGD Symbol Acc 2915
E01	SBR1158339	ENSRNOT00000 027656.3	Ins2	ENSRNOG00 000020405	insulin 2 Source RGD Symbol Acc 2916
E02	SBR1131460	ENSRNOT00000 041155.3	Insr	ENSRNOG00 000029986	insulin receptor Source RGD Symbol Acc 2917
E03	SBR1209536	ENSRNOT00000 071926.1	Lep	ENSRNOG00 000045797	leptin Source RGD Symbol Acc 3000
E04	SBR1152097	ENSRNOT00000 093574.1	Lepr	ENSRNOG00 000023664	leptin receptor Source RGD Symbol Acc 3001
E05	SBR1108078	ENSRNOT00000 005871.4	Mc3r	ENSRNOG00 000004451	melanocortin 3 receptor Source RGD Symbol Acc 3056
E06	SBR1174012	ENSRNOT00000 025564.6	Mchr1	ENSRNOG00 000018895	melanin-concentrating hormone receptor 1 Source RGD Symbol Acc 619841
E07	SBR1200516	ENSRNOT00000 014639.6	Nmb	ENSRNOG00 000011011	neuromedin B Source RGD Symbol Acc 1562710
E08	SBR1119461	ENSRNOT00000 016215.6	Nmbr	ENSRNOG00 000012103	neuromedin B receptor Source MGI Symbol Acc MGI 1100525
E09	SBR1124368	ENSRNOT00000 002941.4	Nmu	ENSRNOG00 000002164	neuromedin U Source RGD Symbol Acc 68388
E10	SBR1133323	ENSRNOT00000 025024.5	Nmur1	ENSRNOG00 000018521	neuromedin U receptor 1 Source RGD Symbol Acc 619867
E11	SBR1096384	ENSRNOT00000 013145.6	LOC10091 2228	ENSRNOG00 000009768	neuropeptide Y Source RGD Symbol Acc 3197
E12	SBR1137148	ENSRNOT00000 018952.6	Npy1r	ENSRNOG00 000014149	neuropeptide Y receptor Y1 Source RGD Symbol Acc 3198
F01	SBR1127733	ENSRNOT00000 044287.4	AABR0703 1756.1	ENSRNOG00 000014096	nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413
F02	SBR1094048	ENSRNOT00000 018961.3	Ntrk1	ENSRNOG00 000013953	neurotrophic receptor tyrosine kinase 1 Source RGD Symbol Acc 620144
F03	SBR1204613	ENSRNOT00000 005706.7	Nts	ENSRNOG00 000004179	neurotensin Source RGD Symbol Acc 621612
F04	SBR1134393	ENSRNOT00000 082073.1	Ntsr1	ENSRNOG00 000028708	neurotensin receptor 1 Source RGD Symbol Acc 1306076
F05	SBR1105261	ENSRNOT00000 010254.3	Oprk1	ENSRNOG00 000007647	opioid receptor, kappa 1 Source RGD Symbol Acc 69426
F06	SBR1163551	ENSRNOT00000 079628.1	Oprm1	ENSRNOG00 000018191	opioid receptor, mu 1 Source RGD Symbol Acc 3234
F07	SBR1164901	ENSRNOT00000 016976.7	Pomc	ENSRNOG00 000012686	proopiomelanocortin Source RGD Symbol Acc 3366
F08	SBR1163064	ENSRNOT00000 078928.1	Ppara	ENSRNOG00 000021463	peroxisome proliferator activated receptor alpha Source RGD Symbol Acc 3369
F09	SBR1131520	ENSRNOT00000 082969.1	Pparg	ENSRNOG00 000008839	peroxisome proliferator-activated receptor gamma Source RGD Symbol Acc 3371
F10	SBR1191958	ENSRNOT00000 006071.5	Ppargc1a	ENSRNOG00 000004473	PPARG coactivator 1 alpha Source RGD Symbol Acc 620925

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1144048	ENSRNOT00000013170.4	Prlhr	ENSRNOG0000009922	prolactin releasing hormone receptor Source RGD Symbol Acc 71037
F12	SBR1146496	ENSRNOT00000014309.4	Ptpn1	ENSRNOG0000010574	protein tyrosine phosphatase, non-receptor type 1 Source RGD Symbol Acc 61965
G01	SBR1195495	ENSRNOT00000028323.6	Pyy	ENSRNOG0000020877	peptide YY (mapped) Source RGD Symbol Acc 1593289
G02	SBR1175099	ENSRNOT00000086468.1	Ramp3	ENSRNOG0000053766	receptor activity modifying protein 3 Source RGD Symbol Acc 61873
G03	SBR1103586	ENSRNOT00000019795.4	Sigmar1	ENSRNOG0000014604	sigma non-opioid intracellular receptor 1 Source RGD Symbol Acc 68364
G04	SBR1147109	ENSRNOT00000049127.5	Sort1	ENSRNOG0000031814	sortilin 1 Source RGD Symbol Acc 619999
G05	SBR1120560	ENSRNOT00000002519.3	Sst	ENSRNOG0000001837	somatostatin Source RGD Symbol Acc 3761
G06	SBR1100510	ENSRNOT00000073970.2	Sstr1	ENSRNOG0000048145	somatostatin receptor 1 Source RGD Symbol Acc 3762
G07	SBR1207152	ENSRNOT00000008989.5	Thrb	ENSRNOG0000006649	thyroid hormone receptor beta Source RGD Symbol Acc 3858
G08	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG000005156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G09	SBR1149347	ENSRNOT00000015944.5	Trh	ENSRNOG0000011824	thyrotropin releasing hormone Source RGD Symbol Acc 3903
G10	SBR1171719	ENSRNOT00000006783.5	Trhr	ENSRNOG0000005048	thyrotropin releasing hormone receptor Source RGD Symbol Acc 3904
G11	SBR1102719	ENSRNOT00000008037.2	Ucn	ENSRNOG0000006090	urocortin Source RGD Symbol Acc 3929
G12	SBR1129529	ENSRNOT00000004900.4	Ucp1	ENSRNOG0000003580	uncoupling protein 1 Source RGD Symbol Acc 3931
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG0000034254	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 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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