

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

Rat PPAR Targets

Cat. no. 249950 SBRN-149ZA

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	Acaa2	Acadl	Acadm	Acox1	Acox3	Acs11	Acs13	Acs14	Acs15	Adipoq	Angptl4	Apoa1
B	Apoa5	Apoc3	Apoe	Aqp7	RGD1565355	Clu	Cpt1a	Cpt1b	Cpt2	Creb1	Crebbp	Cyp27a1
C	Cyp7a1	Dgat1	Ech1	Ehhadh	Eln	AABR0705853 9.1	Etfdh	Fabp1	Fabp2	Fabp3	Fabp4	Fabp5
D	Fabp6	Fabp7	Fads2	Fgr	Gk	Hif1a	Hmgcs2	Hspd1	Ilk	Klf10	Lpin1	Lpl
E	Med1	Mlycd	Mmp9	Ncoa3	Ncoa6	Nr1h3	Olr1	Pck1	Pck2	Pdprk1	Ptpr	Ppara
F	Ppard	Pparg	Ppargc1a	Ppargc1b	Pprc1	Pten	Pyy	Rxa	Rxb	Rxrg	Scd	AABR0704492 5.1
G	Slc22a5	Slc27a1	Slc27a2	Slc27a4	Slc27a5	Slc27a6	Smarcd3	Sorbs1	Src	Tgs1	Txnip	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	SBR1105194	ENSRNOT00000067018.3	Acaa2	ENSRNOG0000013766	acetyl-CoA acyltransferase 2 Source RGD Symbol Acc 620482
A02	SBR1208722	ENSRNOT00000017686.7	Acadl	ENSRNOG0000012966	acyl-CoA dehydrogenase, long chain Source RGD Symbol Acc 2011
A03	SBR1212135	ENSRNOT00000013238.3	Acadm	ENSRNOG0000009845	acyl-CoA dehydrogenase medium chain Source RGD Symbol Acc 2012
A04	SBR1129649	ENSRNOT00000042372.6	Acox1	ENSRNOG0000008755	acyl-CoA oxidase 1 Source RGD Symbol Acc 619757
A05	SBR1191393	ENSRNOT00000049798.3	Acox3	ENSRNOG0000008474	acyl-CoA oxidase 3, pristanoyl Source RGD Symbol Acc 69245
A06	SBR1160500	ENSRNOT00000014235.3	Acs1	ENSRNOG0000010633	acyl-CoA synthetase long-chain family member 1 Source RGD Symbol Acc 2015
A07	SBR1174444	ENSRNOT00000020161.2	Acs13	ENSRNOG0000014718	acyl-CoA synthetase long-chain family member 3 Source RGD Symbol Acc 70552
A08	SBR1194850	ENSRNOT00000026057.6	Acs14	ENSRNOG0000019180	acyl-CoA synthetase long-chain family member 4 Source RGD Symbol Acc 69401
A09	SBR1205852	ENSRNOT00000022126.6	Acs15	ENSRNOG0000016265	acyl-CoA synthetase long-chain family member 5 Source RGD Symbol Acc 69402
A10	SBR1209814	ENSRNOT00000002492.5	Adipoq	ENSRNOG0000001821	adiponectin, C1Q and collagen domain containing Source RGD Symbol Acc 628748
A11	SBR1186322	ENSRNOT00000010031.6	Angptl4	ENSRNOG0000007545	angiotensin-like 4 Source RGD Symbol Acc 735058
A12	SBR1146824	ENSRNOT00000074357.2	Apoa1	ENSRNOG0000045679	apolipoprotein A1 Source RGD Symbol Acc 2130
B01	SBR1197599	ENSRNOT00000024918.5	Apoa5	ENSRNOG0000018436	apolipoprotein A5 Source RGD Symbol Acc 70903
B02	SBR1177510	ENSRNOT000000090985.1	Apoc3	ENSRNOG0000047503	apolipoprotein C3 Source RGD Symbol Acc 2136
B03	SBR1123572	ENSRNOT000000080453.1	ApoE	ENSRNOG0000018454	apolipoprotein E Source RGD Symbol Acc 2138
B04	SBR1106245	ENSRNOT00000012975.2	Aqp7	ENSRNOG0000009686	aquaporin 7 Source RGD Symbol Acc 2145
B05	SBR1160418	ENSRNOT00000076573.2	RGD1565355	ENSRNOG0000040108	similar to fatty acid translocase/CD36 Source RGD Symbol Acc 1565355
B06	SBR1134172	ENSRNOT00000078861.1	Clu	ENSRNOG0000016460	clusterin Source RGD Symbol Acc 3907
B07	SBR1143879	ENSRNOT00000019652.3	Cpt1a	ENSRNOG0000014254	carnitine palmitoyltransferase 1A Source RGD Symbol Acc 2396
B08	SBR1162370	ENSRNOT00000013985.3	Cpt1b	ENSRNOG0000010438	carnitine palmitoyltransferase 1B Source RGD Symbol Acc 2397
B09	SBR1129520	ENSRNOT00000016954.3	Cpt2	ENSRNOG0000012443	carnitine palmitoyltransferase 2 Source RGD Symbol Acc 2398
B10	SBR1179341	ENSRNOT00000049654.4	Creb1	ENSRNOG0000013412	cAMP responsive element binding protein 1 Source RGD Symbol Acc 620218
B11	SBR1115515	ENSRNOT00000007079.5	Crebbp	ENSRNOG0000005330	CREB binding protein Source RGD Symbol Acc 2401
B12	SBR1112320	ENSRNOT00000023152.5	Cyp27a1	ENSRNOG0000017188	cytochrome P450, family 27, subfamily a, polypeptide 1 Source RGD Symbol Acc 727915
C01	SBR1177796	ENSRNOT00000012819.4	Cyp7a1	ENSRNOG0000009488	cytochrome P450 family 7 subfamily A member 1 Source RGD Symbol Acc 2482
C02	SBR1128621	ENSRNOT00000039795.3	Dgat1	ENSRNOG0000028711	diacylglycerol O-acyltransferase 1 Source RGD Symbol Acc 628673
C03	SBR1144695	ENSRNOT00000027537.6	Ech1	ENSRNOG0000020308	enoyl-CoA hydratase 1 Source RGD Symbol Acc 69353
C04	SBR1143596	ENSRNOT00000002410.4	Ehhadh	ENSRNOG0000001770	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase Source RGD Symbol Acc 621441
C05	SBR1117360	ENSRNOT00000040069.6	Eln	ENSRNOG0000001469	elastin Source RGD Symbol Acc 67394
C06	SBR1104886	ENSRNOT00000000206.7	AABR07058539.1	ENSRNOG0000000190	
C07	SBR1175196	ENSRNOT00000013262.6	Etfdh	ENSRNOG0000009538	electron transfer flavoprotein dehydrogenase Source RGD Symbol Acc 735052
C08	SBR1208364	ENSRNOT00000008840.5	Fabp1	ENSRNOG0000006675	fatty acid binding protein 1 Source RGD Symbol Acc 2590
C09	SBR1102879	ENSRNOT00000029871.3	Fabp2	ENSRNOG0000024947	fatty acid binding protein 2 Source RGD Symbol Acc 2591
C10	SBR1147343	ENSRNOT00000017325.5	Fabp3	ENSRNOG0000012879	fatty acid binding protein 3 Source RGD Symbol Acc 69048
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1104159	077311.1	Fabp4	000010805	fatty acid binding protein 4 Source RGD Symbol Acc 69309
C12	SBR1194696	ENSRNOT00000075493.2	Fabp5	ENSRNOG0000049075	fatty acid binding protein 5 Source RGD Symbol Acc 70997
D01	SBR1147478	ENSRNOT00000083910.1	Fabp6	ENSRNOG0000003902	fatty acid binding protein 6 Source RGD Symbol Acc 2592
D02	SBR1212376	ENSRNOT00000001079.5	Fabp7	ENSRNOG0000000814	fatty acid binding protein 7 Source RGD Symbol Acc 69312
D03	SBR1179794	ENSRNOT00000027756.6	Fads2	ENSRNOG0000020440	fatty acid desaturase 2 Source RGD Symbol Acc 68339
D04	SBR1186470	ENSRNOT00000085674.1	Fgr	ENSRNOG0000009912	FGR proto-oncogene, Src family tyrosine kinase Source RGD Symbol Acc 621319
D05	SBR1168527	ENSRNOT00000064340.3	Gk	ENSRNOG0000034116	glycerol kinase Source RGD Symbol Acc 70893
D06	SBR1184753	ENSRNOT00000077935.1	Hif1a	ENSRNOG0000008292	hypoxia inducible factor 1 subunit alpha Source RGD Symbol Acc 61928
D07	SBR1109406	ENSRNOT00000026121.7	Hmgcs2	ENSRNOG0000019120	3-hydroxy-3-methylglutaryl-CoA synthase 2 Source RGD Symbol Acc 2804
D08	SBR1128872	ENSRNOT00000066589.2	Hspd1	ENSRNOG0000014525	heat shock protein family D member 1 Source RGD Symbol Acc 621314
D09	SBR1108626	ENSRNOT00000025906.4	Ilk	ENSRNOG0000018993	integrin-linked kinase Source RGD Symbol Acc 620063
D10	SBR1192101	ENSRNOT00000008350.3	Klf10	ENSRNOG0000006118	Kruppel-like factor 10 Source RGD Symbol Acc 621652
D11	SBR1144915	ENSRNOT00000005863.6	Lpin1	ENSRNOG0000004377	lipin 1 Source RGD Symbol Acc 1307646
D12	SBR1197775	ENSRNOT00000016543.3	Lpl	ENSRNOG0000012181	lipoprotein lipase Source RGD Symbol Acc 3017
E01	SBR1179730	ENSRNOT00000067901.1	Med1	ENSRNOG0000005606	mediator complex subunit 1 Source RGD Symbol Acc 1559552
E02	SBR1180185	ENSRNOT00000019923.5	Mlycd	ENSRNOG0000014522	malonyl-CoA decarboxylase Source RGD Symbol Acc 620234
E03	SBR1206750	ENSRNOT00000023965.3	Mmp9	ENSRNOG0000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
E04	SBR1162814	ENSRNOT00000007768.7	Ncoa3	ENSRNOG0000005616	nuclear receptor coactivator 3 Source RGD Symbol Acc 620109
E05	SBR1153504	ENSRNOT00000024714.7	Ncoa6	ENSRNOG0000018288	nuclear receptor coactivator 6 Source RGD Symbol Acc 620111
E06	SBR1117087	ENSRNOT00000018154.5	Nr1h3	ENSRNOG0000013172	nuclear receptor subfamily 1, group H, member 3 Source RGD Symbol Acc 61909
E07	SBR1156006	ENSRNOT00000086390.1	Olr1	ENSRNOG0000056219	oxidized low density lipoprotein receptor 1 Source RGD Symbol Acc 620515
E08	SBR1109122	ENSRNOT00000031586.6	Pck1	ENSRNOG0000028616	phosphoenolpyruvate carboxykinase 1 Source RGD Symbol Acc 3267
E09	SBR1137508	ENSRNOT00000025260.7	Pck2	ENSRNOG0000018536	phosphoenolpyruvate carboxykinase 2 (mitochondrial) Source MGI Symbol Acc MGI 1860456
E10	SBR1133385	ENSRNOT00000067660.1	Pdpk1	ENSRNOG0000006136	3-phosphoinositide dependent protein kinase-1 Source RGD Symbol Acc 620307
E11	SBR1170156	ENSRNOT00000022594.6	Pltp	ENSRNOG0000016488	phospholipid transfer protein Source RGD Symbol Acc 1306695
E12	SBR1163064	ENSRNOT00000078928.1	Ppara	ENSRNOG0000021463	peroxisome proliferator activated receptor alpha Source RGD Symbol Acc 3369
F01	SBR1197924	ENSRNOT00000083109.1	Ppard	ENSRNOG0000000503	peroxisome proliferator-activated receptor delta Source RGD Symbol Acc 3370
F02	SBR1131520	ENSRNOT00000082969.1	Pparg	ENSRNOG0000008839	peroxisome proliferator-activated receptor gamma Source RGD Symbol Acc 3371
F03	SBR1191958	ENSRNOT00000006071.5	Ppargc1a	ENSRNOG0000004473	PPARG coactivator 1 alpha Source RGD Symbol Acc 620925
F04	SBR1109181	ENSRNOT00000066048.3	Ppargc1b	ENSRNOG0000017503	PPARG coactivator 1 beta Source RGD Symbol Acc 727948
F05	SBR1121388	ENSRNOT00000025221.7	Pprc1	ENSRNOG0000018561	peroxisome proliferator-activated receptor gamma, coactivator-related 1 Source RGD Symbol Acc 1309688
F06	SBR1174124	ENSRNOT00000028143.3	Pten	ENSRNOG0000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
F07	SBR1195495	ENSRNOT00000028323.6	Pyy	ENSRNOG0000020877	peptide YY (mapped) Source RGD Symbol Acc 1593289
F08	SBR1218516	ENSRNOT00000012892.4	Rxra	ENSRNOG0000009446	retinoid X receptor alpha Source RGD Symbol Acc 3610
F09	SBR1135636	ENSRNOT00000081588.1	Rxrb	ENSRNOG0000000464	retinoid X receptor beta Source RGD Symbol Acc 3611
F10	SBR1132005	ENSRNOT00000077227.1	Rxrg	ENSRNOG0000004537	retinoid X receptor gamma Source RGD Symbol Acc 620046

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1116635	ENSRNOT00000018447.5	Scd	ENSRNOG0000013552	stearoyl-CoA desaturase Source RGD Symbol Acc 621176
F12	SBR1134550	ENSRNOT00000078739.1	AABR07044925.1	ENSRNOG0000051592	sirtuin 1 Source NCBI gene Acc 309757
G01	SBR1118779	ENSRNOT00000081898.1	Slc22a5	ENSRNOG0000008432	solute carrier family 22 member 5 Source RGD Symbol Acc 3702
G02	SBR1215227	ENSRNOT00000024659.4	Slc27a1	ENSRNOG0000018170	solute carrier family 27 member 1 Source RGD Symbol Acc 620927
G03	SBR1149155	ENSRNOT00000067700.3	Slc27a2	ENSRNOG0000010128	solute carrier family 27 member 2 Source RGD Symbol Acc 71103
G04	SBR1212504	ENSRNOT00000019500.6	Slc27a4	ENSRNOG0000014369	solute carrier family 27 member 4 Source RGD Symbol Acc 1307383
G05	SBR1180937	ENSRNOT00000026575.4	Slc27a5	ENSRNOG0000019626	solute carrier family 27 member 5 Source RGD Symbol Acc 708535
G06	SBR1178897	ENSRNOT00000077443.1	Slc27a6	ENSRNOG0000058193	solute carrier family 27 member 6 Source RGD Symbol Acc 1311977
G07	SBR1164834	ENSRNOT00000066598.2	Smardc3	ENSRNOG0000010077	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 Source RGD Symbol Acc 1311869
G08	SBR1178002	ENSRNOT00000021289.8	Sorbs1	ENSRNOG0000015658	sorbin and SH3 domain containing 1 Source RGD Symbol Acc 1586598
G09	SBR1192294	ENSRNOT00000012739.4	Src	ENSRNOG0000009495	SRC proto-oncogene, non-receptor tyrosine kinase Source RGD Symbol Acc 620795
G10	SBR1195593	ENSRNOT00000010783.5	Tgs1	ENSRNOG0000008156	trimethylguanosine synthase 1 Source RGD Symbol Acc 1309953
G11	SBR1211460	ENSRNOT00000028793.6	Txnip	ENSRNOG0000021201	thioredoxin interacting protein Source RGD Symbol Acc 620886
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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