

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

Rat Epigenetic Chromatin Remodeling Factors

Cat. no. 249950 SBRN-086ZR

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	Arid1a	Arid1b	Baz1a	Baz1b	Baz2a	Baz2b	Bmi1	Brd1	AC098547.1	Brd3	Brd4	Brd7
B	Brd8	Brdt	Brpf1	Brpf3	Brwd1	Cbx2	Cbx5	Cbx6	Cbx7	Cbx8	Cdyl2	Chd1
C	Chd11	Chd2	Chd3	Chd4	Chd6	Chd7	Chd8	Ctbp1	Ctbp2	Ctcf	Dmap1	E2f6
D	Eed	Ezh2	Ing1	Ing2	Ing3	Ing4	Ing5	Mbd1	Mbd2	Mbd3	Mbd4	Mecp2
E	Mta1	Mta2	Nab2	Ncoa6	Nsd1	LOC1036921 67	Pcgf2	Pcgf3	Pcgf6	Phc1	Phc2	Phf1
F	Phf13	Phf2	Phf21b	Phf3	Phf5a	Phf7	Ring1	Rnf2	Sf3b3	Shprh	Smarca2	Smarca4
G	Smarca5	Smarca1	Smarca1	LOC1036948 76	Smarca1	Smarca2	Smarca3	Smarca1	Spen	Trim27	Yy1	Zmynd8
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	SBR1140511	ENSRNOT00000009173.7	Arid1a	ENSRNOG0000006137	AT-rich interaction domain 1A Source RGD Symbol Acc 1310500
A02	SBR1204472	ENSRNOT00000022939.7	Arid1b	ENSRNOG0000017030	AT-rich interaction domain 1B Source RGD Symbol Acc 708504
A03	SBR1172391	ENSRNOT00000009080.7	Baz1a	ENSRNOG0000006828	bromodomain adjacent to zinc finger domain, 1A Source RGD Symbol Acc 1306199
A04	SBR1126032	ENSRNOT00000001975.7	Baz1b	ENSRNOG0000001453	bromodomain adjacent to zinc finger domain, 1B Source RGD Symbol Acc 1597089
A05	SBR1109547	ENSRNOT00000079383.1	Baz2a	ENSRNOG0000053881	bromodomain adjacent to zinc finger domain, 2A Source RGD Symbol Acc 1305037
A06	SBR1117904	ENSRNOT00000081302.1	Baz2b	ENSRNOG0000056984	bromodomain adjacent to zinc finger domain, 2B Source RGD Symbol Acc 1309801
A07	SBR1175404	ENSRNOT00000064257.2	Bmi1	ENSRNOG0000016585	BM1 proto-oncogene, polycomb ring finger Source RGD Symbol Acc 1307403
A08	SBR1143856	ENSRNOT00000006034.5	Brd1	ENSRNOG0000004538	bromodomain containing 1 Source RGD Symbol Acc 1311855
A09	SBR1132188	ENSRNOT00000077454.1	AC098547.1	ENSRNOG0000045877	bromodomain-containing protein 2-like Source NCBI gene Acc 100909544
A10	SBR1216452	ENSRNOT00000084491.1	Brd3	ENSRNOG0000007681	bromodomain containing 3 Source RGD Symbol Acc 1308925
A11	SBR1094328	ENSRNOT00000008963.7	Brd4	ENSRNOG0000006770	bromodomain containing 4 Source RGD Symbol Acc 1307282
A12	SBR1122142	ENSRNOT00000086560.1	Brd7	ENSRNOG0000014419	bromodomain containing 7 Source RGD Symbol Acc 1309891
B01	SBR1186956	ENSRNOT00000087968.1	Brd8	ENSRNOG0000020340	bromodomain containing 8 Source RGD Symbol Acc 1307003
B02	SBR1190258	ENSRNOT00000080901.1	Brdt	ENSRNOG0000002073	bromodomain, testis-specific Source MGI Symbol Acc MGI 1891374
B03	SBR1106903	ENSRNOT00000011246.5	Brpf1	ENSRNOG0000008142	bromodomain and PHD finger containing, 1 Source RGD Symbol Acc 1584828
B04	SBR1119377	ENSRNOT00000092369.1	Brpf3	ENSRNOG0000028641	bromodomain and PHD finger containing, 3 Source RGD Symbol Acc 1306868
B05	SBR1184211	ENSRNOT00000002231.6	Brwd1	ENSRNOG0000001632	bromodomain and WD repeat domain containing 1 Source RGD Symbol Acc 1309030
B06	SBR1180270	ENSRNOT00000072534.1	Cbx2	ENSRNOG0000049215	chromobox 2 Source RGD Symbol Acc 1588561
B07	SBR1214979	ENSRNOT00000089024.1	Cbx5	ENSRNOG0000036841	chromobox 5 Source RGD Symbol Acc 1306619
B08	SBR1114334	ENSRNOT00000068033.1	Cbx6	ENSRNOG0000046955	chromobox 6 Source RGD Symbol Acc 1307314
B09	SBR1099164	ENSRNOT00000022631.6	Cbx7	ENSRNOG0000016875	chromobox 7 Source RGD Symbol Acc 735027
B10	SBR1105448	ENSRNOT00000073337.1	Cbx8	ENSRNOG0000048113	chromobox 8 Source RGD Symbol Acc 1565375
B11	SBR1160874	ENSRNOT00000068440.3	Cdyl2	ENSRNOG0000042888	chromodomain Y-like 2 Source RGD Symbol Acc 1309548
B12	SBR1127595	ENSRNOT00000019358.7	Chd1	ENSRNOG0000014434	chromodomain helicase DNA binding protein 1 Source RGD Symbol Acc 1306794
C01	SBR1163953	ENSRNOT00000043937.5	Chd11	ENSRNOG0000017669	chromodomain helicase DNA binding protein 1-like Source RGD Symbol Acc 1311935
C02	SBR1147542	ENSRNOT00000076300.2	Chd2	ENSRNOG0000012716	chromodomain helicase DNA binding protein 2 Source RGD Symbol Acc 1310056
C03	SBR1157474	ENSRNOT00000057058.4	Chd3	ENSRNOG0000009722	chromodomain helicase DNA binding protein 3 Source RGD Symbol Acc 1311923
C04	SBR1155804	ENSRNOT00000055970.4	Chd4	ENSRNOG0000018309	chromodomain helicase DNA binding protein 4 Source RGD Symbol Acc 620064
C05	SBR1119918	ENSRNOT00000089958.1	Chd6	ENSRNOG0000016744	chromodomain helicase DNA binding protein 6 Source RGD Symbol Acc 1310465
C06	SBR1158360	ENSRNOT00000008901.7	Chd7	ENSRNOG0000006689	chromodomain helicase DNA binding protein 7 Source RGD Symbol Acc 1311921
C07	SBR1187555	ENSRNOT00000087722.1	Chd8	ENSRNOG0000025011	chromodomain helicase DNA binding protein 8 Source RGD Symbol Acc 620696
C08	SBR1191920	ENSRNOT00000057929.4	Ctbp1	ENSRNOG0000005428	C-terminal binding protein 1 Source RGD Symbol Acc 2441
C09	SBR1123535	ENSRNOT00000023404.6	Ctbp2	ENSRNOG0000017326	C-terminal binding protein 2 Source RGD Symbol Acc 68372
C10	SBR1158887	ENSRNOT00000023853.5	Ctcf	ENSRNOG0000017674	CCCTC-binding factor Source RGD Symbol Acc 621344
		ENSRNOT000000		ENSRNOG00	DNA methyltransferase 1-associated protein 1 Source RGD Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1170376	026336.5	Dmap1	000019407	1311295
C12	SBR1188592	ENSRNOT00000060499.4	E2f6	ENSRNOG0000004449	E2F transcription factor 6 Source RGD Symbol Acc 631412
D01	SBR1123287	ENSRNOT00000024082.6	Eed	ENSRNOG00000017509	embryonic ectoderm development Source RGD Symbol Acc 1309782
D02	SBR1193211	ENSRNOT00000008149.5	Ezh2	ENSRNOG00000006048	enhancer of zeste 2 polycomb repressive complex 2 subunit Source RGD Symbol Acc 1595860
D03	SBR1134357	ENSRNOT00000019454.7	Ing1	ENSRNOG00000014520	inhibitor of growth family, member 1 Source RGD Symbol Acc 1306330
D04	SBR1149480	ENSRNOT00000018689.5	Ing2	ENSRNOG00000013480	inhibitor of growth family, member 2 Source RGD Symbol Acc 1307347
D05	SBR1111530	ENSRNOT00000007476.5	Ing3	ENSRNOG0000005496	inhibitor of growth family, member 3 Source RGD Symbol Acc 1310556
D06	SBR1175812	ENSRNOT00000024116.6	Ing4	ENSRNOG00000023363	inhibitor of growth family, member 4 Source RGD Symbol Acc 1309407
D07	SBR1195419	ENSRNOT00000025683.8	Ing5	ENSRNOG00000018988	inhibitor of growth family, member 5 Source RGD Symbol Acc 1307908
D08	SBR1171442	ENSRNOT00000032202.4	Mbd1	ENSRNOG00000024104	methyl-CpG binding domain protein 1 Source RGD Symbol Acc 1305980
D09	SBR1120711	ENSRNOT00000016112.7	Mbd2	ENSRNOG00000011853	methyl-CpG binding domain protein 2 Source RGD Symbol Acc 1595452
D10	SBR1186756	ENSRNOT00000049170.5	Mbd3	ENSRNOG00000028956	methyl-CpG binding domain protein 3 Source RGD Symbol Acc 1307389
D11	SBR1118745	ENSRNOT00000014537.7	Mbd4	ENSRNOG00000010919	methyl-CpG binding domain 4 DNA glycosylase Source RGD Symbol Acc 1585874
D12	SBR1146389	ENSRNOT00000085723.1	Mecp2	ENSRNOG00000056659	methyl CpG binding protein 2 Source RGD Symbol Acc 3075
E01	SBR1101793	ENSRNOT00000006521.6	Mta1	ENSRNOG00000004711	metastasis associated 1 Source RGD Symbol Acc 621018
E02	SBR1202682	ENSRNOT00000027141.5	Mta2	ENSRNOG00000019913	metastasis associated 1 family, member 2 Source RGD Symbol Acc 1306743
E03	SBR1197972	ENSRNOT00000057745.3	Nab2	ENSRNOG00000008415	Ngfi-A binding protein 2 Source RGD Symbol Acc 1311712
E04	SBR1153504	ENSRNOT00000024714.7	Ncoa6	ENSRNOG00000018288	nuclear receptor coactivator 6 Source RGD Symbol Acc 620111
E05	SBR1130521	ENSRNOT00000060928.2	Nsd1	ENSRNOG00000016680	nuclear receptor binding SET domain protein 1 Source RGD Symbol Acc 1307748
E06	SBR1094736	ENSRNOT00000011173.6	LOC103692167	ENSRNOG00000008360	polycomb group ring finger 1 Source RGD Symbol Acc 1549782
E07	SBR1210199	ENSRNOT00000017241.5	Pcgf2	ENSRNOG00000012705	polycomb group ring finger 2 Source RGD Symbol Acc 1305097
E08	SBR1150617	ENSRNOT00000000071.4	Pcgf3	ENSRNOG00000000062	polycomb group ring finger 3 Source RGD Symbol Acc 1311479
E09	SBR1140327	ENSRNOT00000027450.4	Pcgf6	ENSRNOG00000020250	polycomb group ring finger 6 Source RGD Symbol Acc 1306904
E10	SBR1123011	ENSRNOT00000020529.5	Phc1	ENSRNOG00000015191	polyhomeotic homolog 1 Source RGD Symbol Acc 1309203
E11	SBR1206394	ENSRNOT00000067912.1	Phc2	ENSRNOG0000006004	polyhomeotic homolog 2 Source RGD Symbol Acc 1307912
E12	SBR1178680	ENSRNOT00000092247.1	Phf1	ENSRNOG0000000480	PHD finger protein 1 Source RGD Symbol Acc 1303205
F01	SBR1095112	ENSRNOT00000012407.5	Phf13	ENSRNOG00000009046	PHD finger protein 13 Source RGD Symbol Acc 1308145
F02	SBR1185696	ENSRNOT00000022669.6	Phf2	ENSRNOG00000016816	PHD finger protein 2 Source RGD Symbol Acc 1305228
F03	SBR1160012	ENSRNOT00000017906.6	Phf21b	ENSRNOG00000013067	PHD finger protein 21B Source RGD Symbol Acc 1308739
F04	SBR1187252	ENSRNOT00000015638.5	Phf3	ENSRNOG00000011756	PHD finger protein 3 Source RGD Symbol Acc 1304925
F05	SBR1151994	ENSRNOT00000090984.1	Phf5a	ENSRNOG00000024170	PHD finger protein 5A Source RGD Symbol Acc 621555
F06	SBR1122115	ENSRNOT00000044991.4	Phf7	ENSRNOG00000018996	PHD finger protein 7 Source RGD Symbol Acc 1308638
F07	SBR1179429	ENSRNOT00000081085.1	Ring1	ENSRNOG0000000467	ring finger protein 1 Source RGD Symbol Acc 3576
F08	SBR1116695	ENSRNOT00000092053.1	Rnf2	ENSRNOG00000002454	ring finger protein 2 Source RGD Symbol Acc 1305491
F09	SBR1215034	ENSRNOT00000023854.6	Sf3b3	ENSRNOG00000017724	splicing factor 3b, subunit 3 Source RGD Symbol Acc 1311636
F10	SBR1146050	ENSRNOT00000019893.6	Shprh	ENSRNOG00000014450	SNF2 histone linker PHD RING helicase Source RGD Symbol Acc 1310342

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1188680	ENSRNOT00000080124.1	Smarca2	ENSRNOG00000011931	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 Source RGD Symbol Acc 1302988
F12	SBR1110330	ENSRNOT00000013165.6	Smarca4	ENSRNOG0000009271	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 Source RGD Symbol Acc 621728
G01	SBR1150119	ENSRNOT00000024568.5	Smarca5	ENSRNOG00000018149	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 Source RGD Symbol Acc 1308832
G02	SBR1098337	ENSRNOT00000008585.3	Smarcd1	ENSRNOG0000006391	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1` Source RGD Symbol Acc 1309640
G03	SBR1183618	ENSRNOT00000022459.5	Smarcd1	ENSRNOG0000016503	Swi/SNF related matrix associated, actin dependent regulator of chromatin, subfamily a-like 1 Source RGD Symbol Acc 1306134
G04	SBR1214296	ENSRNOT00000029458.6	LOC103694876	ENSRNOG00000028302	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1 Source RGD Symbol Acc 1308761
G05	SBR1154110	ENSRNOT00000081195.1	Smarcd1	ENSRNOG00000061572	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 Source RGD Symbol Acc 1305406
G06	SBR1108558	ENSRNOT00000014508.3	Smarcd2	ENSRNOG0000010557	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2 Source RGD Symbol Acc 69289
G07	SBR1164834	ENSRNOT00000066598.2	Smarcd3	ENSRNOG0000010077	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 Source RGD Symbol Acc 1311869
G08	SBR1112164	ENSRNOT00000086103.1	Smarce1	ENSRNOG0000010676	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1 Source RGD Symbol Acc 1304726
G09	SBR1202782	ENSRNOT00000055791.5	Spen	ENSRNOG00000033556	spen family transcriptional repressor Source RGD Symbol Acc 1589867
G10	SBR1196472	ENSRNOT00000077363.1	Trim27	ENSRNOG00000055917	tripartite motif-containing 27 Source RGD Symbol Acc 1310105
G11	SBR1180925	ENSRNOT00000005743.3	Yy1	ENSRNOG00000004339	YY1 transcription factor Source RGD Symbol Acc 3982
G12	SBR1124620	ENSRNOT00000079324.1	Zmynd8	ENSRNOG0000019154	zinc finger, MYND-type containing 8 Source RGD Symbol Acc 1309544
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG00000034254	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 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.