

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

Rat WNT Signaling Pathway

Cat. no. 249950 SBRN-043ZA

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	Apc	Dkk2	Axin2	Bcl9	Btrc	Vangl2	Cby1	Ccnd1	Ccnd2	Csnk1a1	Csnk2a1	Ctnnb1
B	Daam1	Dab2	Dixdc1	Dkk1	Dkk3	Dkk4	Dvl1	Dvl2	AABR0705853 9.1	Fbxw11	Fgf4	Fosl1
C	Frzb	Fzd1	Fzd2	Fzd3	Fzd4	Fzd5	Fzd6	Fzd7	Fzd9	Gsk3a	Gsk3b	Jun
D	Kremen1	Kremen2	Lef1	Lrp5	Lrp6	Mapk8	Mitf	Mmp7	Myc	Nkd1	Nkd2	Pitx2
E	Porcn	Ppard	Prickle1	Pygo2	Rac1	Nlk	Rhoa	Sfrp1	Sfrp2	Sfrp4	Sfrp5	Tcf7l1
F	Tcf4	Tcf7	Tcf3	Tle1	Wif1	Ccn4	Wnt1	Wnt10a	Wnt10b	Wnt11	Wnt2	Wnt2b
G	Wnt3	Wnt3a	Wnt4	Wnt5a	Wnt5b	Wnt6	Wnt7a	Wnt7b	Wnt8a	Wnt8b	Wnt9a	Wnt9b
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	SBR1094067	ENSRNOT00000090264.1	Apc	ENSRNOG0000020423	APC, WNT signaling pathway regulator Source RGD Symbol Acc 2123
A02	SBR1190459	ENSRNOT00000015116.6	Dkk2	ENSRNOG0000011360	dickkopf WNT signaling pathway inhibitor 2 Source RGD Symbol Acc 1308639
A03	SBR1121880	ENSRNOT00000088599.1	Axin2	ENSRNOG0000055010	axin 2 Source RGD Symbol Acc 69259
A04	SBR1097250	ENSRNOT00000023548.6	Bcl9	ENSRNOG0000017516	BCL9, transcription coactivator Source RGD Symbol Acc 1306934
A05	SBR1214609	ENSRNOT00000022426.7	Btrc	ENSRNOG0000016280	beta-transducin repeat containing E3 ubiquitin protein ligase Source RGD Symbol Acc 1359721
A06	SBR1147652	ENSRNOT00000091710.1	Vangl2	ENSRNOG000004889	VANGL planar cell polarity protein 2 Source RGD Symbol Acc 1309442
A07	SBR1213542	ENSRNOT00000018787.4	Cby1	ENSRNOG0000013892	chibby family member 1, beta catenin antagonist Source RGD Symbol Acc 708481
A08	SBR1211432	ENSRNOT00000028411.3	Ccnd1	ENSRNOG0000020918	cyclin D1 Source RGD Symbol Acc 68384
A09	SBR1095869	ENSRNOT00000086440.1	Ccnd2	ENSRNOG0000057710	cyclin D2 Source RGD Symbol Acc 621083
A10	SBR1179183	ENSRNOT00000066133.3	Csnk1a1	ENSRNOG0000017106	casein kinase 1, alpha 1 Source RGD Symbol Acc 71098
A11	SBR1124723	ENSRNOT0000007558.5	Csnk2a1	ENSRNOG000005276	casein kinase 2 alpha 1 Source RGD Symbol Acc 621663
A12	SBR1143136	ENSRNOT00000079085.1	Ctnnb1	ENSRNOG0000054172	catenin beta 1 Source RGD Symbol Acc 70487
B01	SBR1179884	ENSRNOT00000005846.4	Daam1	ENSRNOG000004345	dishevelled associated activator of morphogenesis 1 Source RGD Symbol Acc 1305119
B02	SBR1170520	ENSRNOT000000050655.5	Dab2	ENSRNOG0000028930	DAB2, clathrin adaptor protein Source RGD Symbol Acc 621007
B03	SBR1144534	ENSRNOT00000039045.5	Dixdc1	ENSRNOG0000010260	DIX domain containing 1 Source RGD Symbol Acc 1309902
B04	SBR1171972	ENSRNOT00000015771.7	Dkk1	ENSRNOG0000011692	dickkopf WNT signaling pathway inhibitor 1 Source RGD Symbol Acc 1307313
B05	SBR1178885	ENSRNOT00000022301.6	Dkk3	ENSRNOG0000016343	dickkopf WNT signaling pathway inhibitor 3 Source RGD Symbol Acc 621846
B06	SBR1105355	ENSRNOT00000026067.3	Dkk4	ENSRNOG0000019267	dickkopf WNT signaling pathway inhibitor 4 Source RGD Symbol Acc 1563172
B07	SBR1096624	ENSRNOT00000026439.5	Dvl1	ENSRNOG0000019423	dishevelled segment polarity protein 1 Source RGD Symbol Acc 620632
B08	SBR1146374	ENSRNOT00000024348.6	Dvl2	ENSRNOG0000017915	dishevelled segment polarity protein 2 Source RGD Symbol Acc 1309725
B09	SBR1104886	ENSRNOT00000000206.7	AABR07058539.1	ENSRNOG0000000190	
B10	SBR1111930	ENSRNOT00000079698.1	Fbxw11	ENSRNOG000004395	F-box and WD repeat domain containing 11 Source RGD Symbol Acc 1309121
B11	SBR1161582	ENSRNOT00000028355.5	Fgf4	ENSRNOG0000020890	fibroblast growth factor 4 Source RGD Symbol Acc 620127
B12	SBR1182363	ENSRNOT00000027891.2	Fosl1	ENSRNOG0000020552	FOS like 1, AP-1 transcription factor subunit Source RGD Symbol Acc 2627
C01	SBR1121358	ENSRNOT00000010247.5	Frzb	ENSRNOG0000007765	frizzled-related protein Source RGD Symbol Acc 1311315
C02	SBR1176606	ENSRNOT00000021979.4	Fzd1	ENSRNOG0000016242	frizzled class receptor 1 Source RGD Symbol Acc 61916
C03	SBR1173917	ENSRNOT00000032944.2	Fzd2	ENSRNOG0000021962	frizzled class receptor 2 Source RGD Symbol Acc 71012
C04	SBR1128931	ENSRNOT00000071464.1	Fzd3	ENSRNOG0000047211	frizzled class receptor 3 Source RGD Symbol Acc 628814
C05	SBR1187184	ENSRNOT00000023205.6	Fzd4	ENSRNOG0000016848	frizzled class receptor 4 Source RGD Symbol Acc 71017
C06	SBR1176179	ENSRNOT00000019698.4	Fzd5	ENSRNOG0000014678	frizzled class receptor 5 Source RGD Symbol Acc 631406
C07	SBR1204901	ENSRNOT00000006195.5	Fzd6	ENSRNOG0000004660	frizzled class receptor 6 Source RGD Symbol Acc 628816
C08	SBR1124398	ENSRNOT00000021569.6	Fzd7	ENSRNOG0000016119	frizzled class receptor 7 Source RGD Symbol Acc 2321905
C09	SBR1126677	ENSRNOT00000001973.3	Fzd9	ENSRNOG000001452	frizzled class receptor 9 Source RGD Symbol Acc 628817
C10	SBR1194620	ENSRNOT00000027677.5	Gsk3a	ENSRNOG0000020417	glycogen synthase kinase 3 alpha Source RGD Symbol Acc 620351
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1155736	077612.1	Gsk3b	000002833	glycogen synthase kinase 3 beta Source RGD Symbol Acc 70982
C12	SBR1133226	ENSRNOT00000011731.3	Jun	ENSRNOG0000026293	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2943
D01	SBR1214573	ENSRNOT00000083770.1	Kremen1	ENSRNOG0000051487	kringle containing transmembrane protein 1 Source RGD Symbol Acc 620789
D02	SBR1207353	ENSRNOT00000005718.3	Kremen2	ENSRNOG0000004122	kringle containing transmembrane protein 2 Source RGD Symbol Acc 1310795
D03	SBR1100877	ENSRNOT00000013694.3	Lef1	ENSRNOG0000010121	lymphoid enhancer binding factor 1 Source RGD Symbol Acc 620241
D04	SBR1166179	ENSRNOT00000022213.7	Lrp5	ENSRNOG0000015911	LDL receptor related protein 5 Source RGD Symbol Acc 1309329
D05	SBR1122227	ENSRNOT00000082102.1	Lrp6	ENSRNOG0000006338	LDL receptor related protein 6 Source RGD Symbol Acc 1304749
D06	SBR1144517	ENSRNOT00000065216.3	Mapk8	ENSRNOG0000020155	mitogen-activated protein kinase 8 Source RGD Symbol Acc 621506
D07	SBR1115783	ENSRNOT00000083127.1	Mitf	ENSRNOG0000008658	melanocyte inducing transcription factor Source RGD Symbol Acc 3092
D08	SBR1116320	ENSRNOT00000014041.5	Mmp7	ENSRNOG0000010507	matrix metalloproteinase 7 Source RGD Symbol Acc 3100
D09	SBR1106364	ENSRNOT00000006188.5	Myc	ENSRNOG0000004500	MYC proto-oncogene, bHLH transcription factor Source RGD Symbol Acc 3130
D10	SBR1136143	ENSRNOT00000019301.7	Nkd1	ENSRNOG0000014293	NKD1, WNT signaling pathway inhibitor Source RGD Symbol Acc 1308491
D11	SBR1159745	ENSRNOT00000021898.5	Nkd2	ENSRNOG0000016103	NKD2, WNT signaling pathway inhibitor Source RGD Symbol Acc 1311459
D12	SBR1186889	ENSRNOT00000051009.4	Pitx2	ENSRNOG0000010681	paired-like homeodomain 2 Source RGD Symbol Acc 3331
E01	SBR1185690	ENSRNOT00000006491.7	Porcn	ENSRNOG0000004819	porcupine O-acyltransferase Source RGD Symbol Acc 1564947
E02	SBR1197924	ENSRNOT00000083109.1	Ppard	ENSRNOG0000000503	peroxisome proliferator-activated receptor delta Source RGD Symbol Acc 3370
E03	SBR1160218	ENSRNOT00000036750.4	Prickle1	ENSRNOG0000022772	prickle planar cell polarity protein 1 Source RGD Symbol Acc 735090
E04	SBR1174771	ENSRNOT00000028052.4	Pygo2	ENSRNOG0000020663	pygopus family PHD finger 2 Source RGD Symbol Acc 1308535
E05	SBR1123146	ENSRNOT00000001417.5	Rac1	ENSRNOG000001068	Rac family small GTPase 1 Source RGD Symbol Acc 619755
E06	SBR1143110	ENSRNOT00000011726.6	Nlk	ENSRNOG0000008704	nemo like kinase Source RGD Symbol Acc 1561602
E07	SBR1125110	ENSRNOT00000071664.2	Rhoa	ENSRNOG0000050519	ras homolog family member A Source RGD Symbol Acc 619921
E08	SBR1098532	ENSRNOT00000024128.6	Sfrp1	ENSRNOG0000017783	secreted frizzled-related protein 1 Source RGD Symbol Acc 621074
E09	SBR1157148	ENSRNOT00000012658.6	Sfrp2	ENSRNOG0000009465	secreted frizzled-related protein 2 Source RGD Symbol Acc 735163
E10	SBR1135331	ENSRNOT00000079216.1	Sfrp4	ENSRNOG0000054957	secreted frizzled-related protein 4 Source RGD Symbol Acc 621075
E11	SBR1213355	ENSRNOT00000020182.5	Sfrp5	ENSRNOG0000014940	secreted frizzled-related protein 5 Source RGD Symbol Acc 1310369
E12	SBR1154852	ENSRNOT00000020005.7	Tcf7l1	ENSRNOG0000014753	transcription factor 7 like 1 Source RGD Symbol Acc 1311671
F01	SBR1134900	ENSRNOT00000081797.1	Tcf4	ENSRNOG0000012405	transcription factor 4 Source RGD Symbol Acc 69271
F02	SBR1172406	ENSRNOT00000008022.7	Tcf7	ENSRNOG0000005872	transcription factor 7 Source RGD Symbol Acc 1305894
F03	SBR1216313	ENSRNOT00000077122.1	Tcf3	ENSRNOG0000051499	transcription factor 3 Source RGD Symbol Acc 620914
F04	SBR1149395	ENSRNOT00000058906.3	Tle1	ENSRNOG0000005882	TLE family member 1, transcriptional corepressor Source RGD Symbol Acc 1309237
F05	SBR1167957	ENSRNOT00000006426.5	Wif1	ENSRNOG0000004476	Wnt inhibitory factor 1 Source RGD Symbol Acc 619774
F06	SBR1172041	ENSRNOT00000009673.7	Ccn4	ENSRNOG0000007078	cellular communication network factor 4 Source RGD Symbol Acc 69431
F07	SBR1167539	ENSRNOT00000090156.1	Wnt1	ENSRNOG0000061818	Wnt family member 1 Source RGD Symbol Acc 1597195
F08	SBR1155010	ENSRNOT00000086375.1	Wnt10a	ENSRNOG0000052510	Wnt family member 10A Source RGD Symbol Acc 1307015
F09	SBR1106181	ENSRNOT00000081468.1	Wnt10b	ENSRNOG0000061238	Wnt family member 10B Source RGD Symbol Acc 1304988
F10	SBR1196784	ENSRNOT00000021674.5	Wnt11	ENSRNOG0000015982	Wnt family member 11 Source RGD Symbol Acc 621463

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1114751	ENSRNOT00000083039.1	Wnt2	ENSRNOG00000051905	Wnt family member 2 Source RGD Symbol Acc 621346
F12	SBR1180983	ENSRNOT00000019349.4	Wnt2b	ENSRNOG00000014385	Wnt family member 2B Source RGD Symbol Acc 69346
G01	SBR1107006	ENSRNOT00000005176.5	Wnt3	ENSRNOG00000003845	Wnt family member 3 Source RGD Symbol Acc 3972
G02	SBR1178408	ENSRNOT00000064505.3	Wnt3a	ENSRNOG00000003039	Wnt family member 3A Source RGD Symbol Acc 1308057
G03	SBR1203603	ENSRNOT00000018064.5	Wnt4	ENSRNOG00000013166	Wnt family member 4 Source RGD Symbol Acc 621348
G04	SBR1212833	ENSRNOT00000021164.3	Wnt5a	ENSRNOG00000015618	Wnt family member 5A Source RGD Symbol Acc 69250
G05	SBR1206664	ENSRNOT00000011044.4	Wnt5b	ENSRNOG00000008168	Wnt family member 5B Source RGD Symbol Acc 628850
G06	SBR1200772	ENSRNOT00000023439.6	Wnt6	ENSRNOG00000017409	Wnt family member 6 Source RGD Symbol Acc 1304559
G07	SBR1102081	ENSRNOT00000070832.1	Wnt7a	ENSRNOG00000048782	Wnt family member 7A Source RGD Symbol Acc 69079
G08	SBR1173541	ENSRNOT00000021196.7	Wnt7b	ENSRNOG00000015750	Wnt family member 7B Source RGD Symbol Acc 1311441
G09	SBR1095437	ENSRNOT00000064574.1	Wnt8a	ENSRNOG00000020157	Wnt family member 8A Source RGD Symbol Acc 1306312
G10	SBR1182384	ENSRNOT00000018815.6	Wnt8b	ENSRNOG00000013817	Wnt family member 8B Source RGD Symbol Acc 1307644
G11	SBR1108175	ENSRNOT00000058327.3	Wnt9a	ENSRNOG00000003066	Wnt family member 9A Source RGD Symbol Acc 1305018
G12	SBR1145553	ENSRNOT00000005074.5	Wnt9b	ENSRNOG00000003807	Wnt family member 9B Source RGD Symbol Acc 1309574
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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