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

Rat Parkinson's Disease

Cat. no. 249950 SBRN-124ZR

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	Aldh1a1	Apc	App	Atp2b2	Atxn2	Atxn3	Basp1	Bdnf	Cadps	Casp1	Casp3	Casp7
B	Casp8	Casp9	Cd44	Cdc27	Cdc42	Cdh8	Chgb	Cirbp	Cul2	Cxxc1	Ddc	Dlk1
C	Drd2	Egln1	Fbxo9	Fgf13	Fjx1	Fn1	Gabbr2	Gpr37	Gria3	Hmgcs1	Hspa4	Htr2a
D	Kcnj6	Mapk9	Mapt	Nefl	Nfasc	Nr4a2	Nrxn3	Nsf	Nsg1	Ntrk2	Opa1	Pan2
E	AABR0700151 9.1	Park7	Pink1	Ppid	Ppp2r1b	Prdx2	Psen2	Pten	Rgs4	Rtn1	S100b	Skp1
F	Slc18a2	Slc25a4	Slc6a3	Slit1	Snca	Spen	Srsf7	Stub1	AC126641.1	Syngr3	Syt1	Syt11
G	Tcf7l2	Th	Tpbg	Uba1	Ubb	Ube2i	Ube2k	Ube2l3	Uchl1	Vamp1	Vdac3	Ywhaz
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	SBR1184560	ENSRNOT00000024000.6	Aldh1a1	ENSRNOG00000017619	aldehyde dehydrogenase 1 family, member A1 Source RGD Symbol Acc 2087
A02	SBR1094067	ENSRNOT00000090264.1	Apc	ENSRNOG00000020423	APC, WNT signaling pathway regulator Source RGD Symbol Acc 2123
A03	SBR1129904	ENSRNOT00000048854.6	App	ENSRNOG00000006997	amyloid beta precursor protein Source RGD Symbol Acc 2139
A04	SBR1212310	ENSRNOT00000043476.5	Atp2b2	ENSRNOG00000030269	ATPase plasma membrane Ca2+ transporting 2 Source RGD Symbol Acc 2176
A05	SBR1199684	ENSRNOT00000001691.8	Atxn2	ENSRNOG00000001256	ataxin 2 Source RGD Symbol Acc 1306637
A06	SBR1173486	ENSRNOT00000007505.2	Atxn3	ENSRNOG00000005470	ataxin 3 Source RGD Symbol Acc 621567
A07	SBR1111971	ENSRNOT00000073915.2	Basp1	ENSRNOG00000046313	brain abundant, membrane attached signal protein 1 Source RGD Symbol Acc 621491
A08	SBR1172593	ENSRNOT00000083542.1	Bdnf	ENSRNOG00000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
A09	SBR1141669	ENSRNOT00000012153.6	Cadps	ENSRNOG00000008570	calcium dependent secretion activator Source RGD Symbol Acc 708573
A10	SBR1122190	ENSRNOT00000009993.6	Casp1	ENSRNOG00000007372	caspase 1 Source RGD Symbol Acc 2274
A11	SBR1123217	ENSRNOT00000014095.5	Casp3	ENSRNOG00000010475	caspase 3 Source RGD Symbol Acc 2275
A12	SBR1124602	ENSRNOT00000080511.1	Casp7	ENSRNOG00000056216	caspase 7 Source RGD Symbol Acc 620944
B01	SBR1182801	ENSRNOT00000016613.4	Casp8	ENSRNOG00000012331	caspase 8 Source RGD Symbol Acc 620945
B02	SBR1175310	ENSRNOT00000085378.1	Casp9	ENSRNOG00000012944	caspase 9 Source RGD Symbol Acc 61867
B03	SBR1148883	ENSRNOT00000009000.7	Cd44	ENSRNOG00000006094	CD44 molecule (Indian blood group) Source RGD Symbol Acc 2307
B04	SBR1124192	ENSRNOT00000007963.5	Cdc27	ENSRNOG00000005904	cell division cycle 27 Source RGD Symbol Acc 1304921
B05	SBR1159831	ENSRNOT00000029025.5	Cdc42	ENSRNOG00000013536	cell division cycle 42 Source RGD Symbol Acc 71043
B06	SBR1211207	ENSRNOT00000084126.1	Cdh8	ENSRNOG00000056643	cadherin 8 Source RGD Symbol Acc 69286
B07	SBR1154809	ENSRNOT00000028892.4	Chgb	ENSRNOG00000021269	chromogranin B Source RGD Symbol Acc 2339
B08	SBR1152405	ENSRNOT00000021648.6	Cirbp	ENSRNOG00000015999	cold inducible RNA binding protein Source RGD Symbol Acc 620756
B09	SBR1167569	ENSRNOT00000079607.1	Cul2	ENSRNOG00000015292	cullin 2 Source RGD Symbol Acc 1310644
B10	SBR1129427	ENSRNOT00000020472.6	Cxxc1	ENSRNOG00000014614	CXXC finger protein 1 Source RGD Symbol Acc 1310755
B11	SBR1153672	ENSRNOT00000005851.6	Ddc	ENSRNOG00000004327	dopa decarboxylase Source RGD Symbol Acc 2494
B12	SBR1102845	ENSRNOT00000006339.6	Dlk1	ENSRNOG00000019584	delta like non-canonical Notch ligand 1 Source RGD Symbol Acc 619931
C01	SBR1132727	ENSRNOT00000083419.1	Drd2	ENSRNOG00000008428	dopamine receptor D2 Source RGD Symbol Acc 2520
C02	SBR1191212	ENSRNOT00000026767.7	Egln1	ENSRNOG00000019773	egl-9 family hypoxia-inducible factor 1 Source RGD Symbol Acc 631375
C03	SBR1131233	ENSRNOT00000010961.5	Fbxo9	ENSRNOG00000008214	f-box protein 9 Source RGD Symbol Acc 1310374
C04	SBR1110705	ENSRNOT00000091330.1	Fgf13	ENSRNOG00000042753	fibroblast growth factor 13 Source RGD Symbol Acc 620164
C05	SBR1177945	ENSRNOT00000007077.5	Fjx1	ENSRNOG00000005347	four-jointed box kinase 1 Source RGD Symbol Acc 1306113
C06	SBR1178912	ENSRNOT00000019772.6	Fn1	ENSRNOG00000014288	fibronectin 1 Source RGD Symbol Acc 2624
C07	SBR1193822	ENSRNOT00000011573.4	Gabbr2	ENSRNOG00000008431	gamma-aminobutyric acid type B receptor subunit 2 Source RGD Symbol Acc 619864
C08	SBR1114021	ENSRNOT00000003593.6	Gpr37	ENSRNOG00000002524	G protein-coupled receptor 37 Source RGD Symbol Acc 619848
C09	SBR1198346	ENSRNOT00000029031.7	Gria3	ENSRNOG00000007682	glutamate ionotropic receptor AMPA type subunit 3 Source RGD Symbol Acc 70958
C10	SBR1172529	ENSRNOT00000023554.6	Hmgcs1	ENSRNOG00000016552	3-hydroxy-3-methylglutaryl-CoA synthase 1 Source RGD Symbol Acc 70970
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1138708	023628.3	Hspa4	000016596	heat shock protein family A member 4 Source RGD Symbol Acc 628878
C12	SBR1130221	ENSRNOT00000 013408.6	Htr2a	ENSRNOG00 000010063	5-hydroxytryptamine receptor 2A Source RGD Symbol Acc 61800
D01	SBR1203649	ENSRNOT00000 066940.2	Kcnj6	ENSRNOG00 000001658	potassium voltage-gated channel subfamily J member 6 Source RGD Symbol Acc 2959
D02	SBR1169613	ENSRNOT00000 004010.4	Mapk9	ENSRNOG00 000002823	mitogen-activated protein kinase 9 Source RGD Symbol Acc 628847
D03	SBR1202634	ENSRNOT00000 042984.5	Mapt	ENSRNOG00 000005133	microtubule-associated protein tau Source RGD Symbol Acc 69329
D04	SBR1148387	ENSRNOT00000 018599.3	Nefl	ENSRNOG00 000013658	neurofilament light Source RGD Symbol Acc 621458
D05	SBR1216062	ENSRNOT00000 044972.6	Nfasc	ENSRNOG00 000030515	neurofascin Source RGD Symbol Acc 620911
D06	SBR1175072	ENSRNOT00000 041394.3	Nr4a2	ENSRNOG00 000005600	nuclear receptor subfamily 4, group A, member 2 Source RGD Symbol Acc 3202
D07	SBR1191888	ENSRNOT00000 031205.5	Nrxn3	ENSRNOG00 000047574	neurexin 3 Source RGD Symbol Acc 620212
D08	SBR1209794	ENSRNOT00000 006361.6	Nsf	ENSRNOG00 000003905	N-ethylmaleimide sensitive factor, vesicle fusing ATPase Source RGD Symbol Acc 621594
D09	SBR1098919	ENSRNOT00000 008030.7	Nsg1	ENSRNOG00 000005700	neuronal vesicle trafficking associated 1 Source RGD Symbol Acc 2222
D10	SBR1097948	ENSRNOT00000 090914.1	Ntrk2	ENSRNOG00 000018839	neurotrophic receptor tyrosine kinase 2 Source RGD Symbol Acc 3213
D11	SBR1161494	ENSRNOT00000 002343.7	Opa1	ENSRNOG00 000001717	OPA1, mitochondrial dynamin like GTPase Source RGD Symbol Acc 708423
D12	SBR1112097	ENSRNOT00000 050792.4	Pan2	ENSRNOG00 000032441	poly(A) specific ribonuclease subunit PAN2 Source RGD Symbol Acc 1303301
E01	SBR1204540	ENSRNOT00000 086127.1	AABR0700 1519.1	ENSRNOG00 000055547	
E02	SBR1103935	ENSRNOT00000 087402.1	Park7	ENSRNOG00 000018289	Parkinsonism associated deglycase Source RGD Symbol Acc 621808
E03	SBR1213570	ENSRNOT00000 083474.1	Pink1	ENSRNOG00 000015385	PTEN induced putative kinase 1 Source RGD Symbol Acc 1305769
E04	SBR1201432	ENSRNOT00000 037890.4	Ppid	ENSRNOG00 000027408	peptidylprolyl isomerase D Source RGD Symbol Acc 1303174
E05	SBR1163483	ENSRNOT00000 064290.2	Ppp2r1b	ENSRNOG00 000010922	protein phosphatase 2 scaffold subunit A beta Source RGD Symbol Acc 1304764
E06	SBR1150356	ENSRNOT00000 004799.5	Prdx2	ENSRNOG00 000003520	peroxiredoxin 2 Source RGD Symbol Acc 3838
E07	SBR1213143	ENSRNOT00000 040203.4	Psen2	ENSRNOG00 000002879	presenilin 2 Source RGD Symbol Acc 621060
E08	SBR1174124	ENSRNOT00000 028143.3	Pten	ENSRNOG00 000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
E09	SBR1188981	ENSRNOT00000 003774.2	Rgs4	ENSRNOG00 000002773	regulator of G-protein signaling 4 Source RGD Symbol Acc 3567
E10	SBR1173981	ENSRNOT00000 072262.3	Rtn1	ENSRNOG00 000004794	reticulon 1 Source RGD Symbol Acc 620986
E11	SBR1099560	ENSRNOT00000 001743.2	S100b	ENSRNOG00 000001295	S100 calcium binding protein B Source RGD Symbol Acc 3615
E12	SBR1097884	ENSRNOT00000 007676.7	Skp1	ENSRNOG00 000005828	S-phase kinase-associated protein 1 Source RGD Symbol Acc 1359648
F01	SBR1174145	ENSRNOT00000 011983.2	Slc18a2	ENSRNOG00 000008890	solute carrier family 18 member A2 Source RGD Symbol Acc 3694
F02	SBR1180410	ENSRNOT00000 014704.4	Slc25a4	ENSRNOG00 000010830	solute carrier family 25 member 4 Source RGD Symbol Acc 620352
F03	SBR1109116	ENSRNOT00000 040291.1	Slc6a3	ENSRNOG00 000017302	solute carrier family 6 member 3 Source RGD Symbol Acc 3715
F04	SBR1125719	ENSRNOT00000 035415.6	Slit1	ENSRNOG00 000026065	slit guidance ligand 1 Source RGD Symbol Acc 69307
F05	SBR1121544	ENSRNOT00000 039247.4	Snca	ENSRNOG00 000008656	synuclein alpha Source RGD Symbol Acc 3729
F06	SBR1202782	ENSRNOT00000 055791.5	Spen	ENSRNOG00 000033556	spen family transcriptional repressor Source RGD Symbol Acc 1589867
F07	SBR1188851	ENSRNOT00000 038448.5	Srsf7	ENSRNOG00 000027360	serine and arginine rich splicing factor 7 Source RGD Symbol Acc 1307425
F08	SBR1163016	ENSRNOT00000 026921.6	Stub1	ENSRNOG00 000019798	STIP1 homology and U-box containing protein 1 Source RGD Symbol Acc 1306167
F09	SBR1212119	ENSRNOT00000 076087.1	AC126641. 1	ENSRNOG00 000011160	synaptic vesicle glycoprotein 2b Source NCBI gene Acc 117556
F10	SBR1136985	ENSRNOT00000 017833.5	Syngr3	ENSRNOG00 000012620	synaptogyrin 3 Source RGD Symbol Acc 1311801

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1160987	ENSRNOT00000048880.2	Syt1	ENSRNOG00000006426	synaptotagmin 1 Source RGD Symbol Acc 3803
F12	SBR1121619	ENSRNOT00000027474.3	Syt11	ENSRNOG00000020279	synaptotagmin 11 Source RGD Symbol Acc 62042
G01	SBR1184563	ENSRNOT00000019681.6	Tcf7l2	ENSRNOG00000049232	transcription factor 7 like 2 Source RGD Symbol Acc 1583621
G02	SBR1110132	ENSRNOT00000027682.5	Th	ENSRNOG00000020410	tyrosine hydroxylase Source RGD Symbol Acc 3853
G03	SBR1178172	ENSRNOT00000014326.2	Tpbg	ENSRNOG00000010694	trophoblast glycoprotein Source RGD Symbol Acc 621453
G04	SBR1193881	ENSRNOT00000031115.4	Uba1	ENSRNOG00000019164	ubiquitin-like modifier activating enzyme 1 Source RGD Symbol Acc 1359327
G05	SBR1139956	ENSRNOT00000066885.3	Ubb	ENSRNOG00000042271	ubiquitin B Source RGD Symbol Acc 621562
G06	SBR1163111	ENSRNOT00000024406.6	Ube2i	ENSRNOG00000017907	ubiquitin-conjugating enzyme E2I Source RGD Symbol Acc 3926
G07	SBR1156640	ENSRNOT00000030485.5	Ube2k	ENSRNOG00000027088	ubiquitin-conjugating enzyme E2K Source RGD Symbol Acc 1311626
G08	SBR1192749	ENSRNOT00000046159.4	Ube2l3	ENSRNOG00000001862	ubiquitin-conjugating enzyme E2L 3 Source RGD Symbol Acc 1308361
G09	SBR1133680	ENSRNOT00000003248.5	Uchl1	ENSRNOG00000002343	ubiquitin C-terminal hydrolase L1 Source RGD Symbol Acc 3928
G10	SBR1093822	ENSRNOT00000025081.5	Vamp1	ENSRNOG00000019219	vesicle-associated membrane protein 1 Source RGD Symbol Acc 3948
G11	SBR1207832	ENSRNOT00000026197.6	Vdac3	ENSRNOG00000019277	voltage-dependent anion channel 3 Source RGD Symbol Acc 621577
G12	SBR1172173	ENSRNOT00000080676.1	Ywhaz	ENSRNOG00000008195	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta Source RGD Symbol Acc 3980
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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