

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

Human Parkinson's Disease

Cat. no. 249950 SBHS-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	CDC27	CDC42	CDH8	CHGB	CUL2	CXXC1	NSG1	DDC	DLK1	DRD2
C	EGLN1	FBXO9	FGF13	FN1	GABBR2	GBE1	GPR37	GRIA3	HSPA4	HTR2A	KCNJ6	LRRK2
D	MAPK9	MAPT	NCOA1	NEFL	NFASC	NR4A2	NRXN3	NSF	NTRK2	OPA1	PAN2	PRKN
E	PARK7	PINK1	PPID	PRDX2	PSEN2	PTEN	RG54	RTN1	S100B	SEPT5	SKP1	SLC18A2
F	SLC25A4	SLC6A3	SLIT1	SNCA	SPEN	SRSF7	STUB1	SV2B	SYNGR3	SYT1	SYT11	TCF7L2
G	TH	TPBG	UBA1	UBB	UBE2I	UBE2K	UBE2L3	UCHL1	USP34	VAMP1	VDAC3	YWHAZ
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0340208	ENST00000482210.5	ALDH1A1	ENSG00000165092	aldehyde dehydrogenase 1 family member A1 Source HGNC Symbol Acc HGNC 402
A02	SBH1219746	ENST00000512211.6	APC	ENSG00000134982	APC, WNT signaling pathway regulator Source HGNC Symbol Acc HGNC 583
A03	SBH1219749	ENST00000348990.9	APP	ENSG00000142192	amyloid beta precursor protein Source HGNC Symbol Acc HGNC 620
A04	SBH0162865	ENST00000352432.9	ATP2B2	ENSG00000157087	ATPase plasma membrane Ca ²⁺ transporting 2 Source HGNC Symbol Acc HGNC 815
A05	SBH0317431	ENST00000377617.7	ATXN2	ENSG00000204842	ataxin 2 Source HGNC Symbol Acc HGNC 10555
A06	SBH0024290	ENST00000558190.6	ATXN3	ENSG00000066427	ataxin 3 Source HGNC Symbol Acc HGNC 7106
A07	SBH0559056	ENST00000322611.4	BASP1	ENSG00000176788	brain abundant membrane attached signal protein 1 Source HGNC Symbol Acc HGNC 957
A08	SBH0006040	ENST00000525528.1	BDNF	ENSG00000176697	brain derived neurotrophic factor Source HGNC Symbol Acc HGNC 1033
A09	SBH0028932	ENST00000383710.9	CADPS	ENSG00000163618	calcium dependent secretion activator Source HGNC Symbol Acc HGNC 1426
A10	SBH0054226	ENST00000526568.5	CASP1	ENSG00000137752	caspase 1 Source HGNC Symbol Acc HGNC 1499
A11	SBH1219824	ENST00000308394.9	CASP3	ENSG00000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
A12	SBH0425413	ENST00000369318.7	CASP7	ENSG00000165806	caspase 7 Source HGNC Symbol Acc HGNC 1508
B01	SBH0075404	ENST00000358485.8	CASP8	ENSG00000064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
B02	SBH1219828	ENST00000333868.10	CASP9	ENSG00000132906	caspase 9 Source HGNC Symbol Acc HGNC 1511
B03	SBH0505638	ENST00000570818.5	CDC27	ENSG00000004897	cell division cycle 27 Source HGNC Symbol Acc HGNC 1728
B04	SBH0651826	ENST00000651171.1	CDC42	ENSG00000070831	cell division cycle 42 Source HGNC Symbol Acc HGNC 1736
B05	SBH0469753	ENST00000585315.5	CDH8	ENSG00000150394	cadherin 8 Source HGNC Symbol Acc HGNC 1767
B06	SBH0395762	ENST00000455042.1	CHGB	ENSG00000089199	chromogranin B Source HGNC Symbol Acc HGNC 1930
B07	SBH1219925	ENST00000374751.7	CUL2	ENSG00000108094	cullin 2 Source HGNC Symbol Acc HGNC 2552
B08	SBH0653212	ENST00000589940.5	CXXC1	ENSG00000154832	CXXC finger protein 1 Source HGNC Symbol Acc HGNC 24343
B09	SBH0486547	ENST00000397958.5	NSG1	ENSG00000168824	neuronal vesicle trafficking associated 1 Source HGNC Symbol Acc HGNC 18790
B10	SBH0460522	ENST00000444733.5	DDC	ENSG00000132437	dopa decarboxylase Source HGNC Symbol Acc HGNC 2719
B11	SBH0520266	ENST00000650464.1	DLK1	ENSG00000185559	delta like non-canonical Notch ligand 1 Source HGNC Symbol Acc HGNC 2907
B12	SBH0344008	ENST00000535984.1	DRD2	ENSG00000149295	dopamine receptor D2 Source HGNC Symbol Acc HGNC 3023
C01	SBH0371478	ENST00000476717.1	EGLN1	ENSG00000135766	egl-9 family hypoxia inducible factor 1 Source HGNC Symbol Acc HGNC 1232
C02	SBH0024469	ENST00000473337.6	FBXO9	ENSG00000112146	F-box protein 9 Source HGNC Symbol Acc HGNC 13588
C03	SBH0028571	ENST00000441825.8	FGF13	ENSG00000129682	fibroblast growth factor 13 Source HGNC Symbol Acc HGNC 3670
C04	SBH1220003	ENST00000354785.9	FN1	ENSG00000115414	fibronectin 1 Source HGNC Symbol Acc HGNC 3778
C05	SBH0594090	ENST00000634314.1	GABBR2	ENSG00000136928	gamma-aminobutyric acid type B receptor subunit 2 Source HGNC Symbol Acc HGNC 4507
C06	SBH1220023	ENST00000489715.1	GBE1	ENSG00000114480	1,4-alpha-glucan branching enzyme 1 Source HGNC Symbol Acc HGNC 4180
C07	SBH0079461	ENST00000303921.2	GPR37	ENSG00000170775	G protein-coupled receptor 37 Source HGNC Symbol Acc HGNC 4494
C08	SBH0052841	ENST00000611689.4	GRIA3	ENSG00000125675	glutamate ionotropic receptor AMPA type subunit 3 Source HGNC Symbol Acc HGNC 4573
C09	SBH1220071	ENST00000617074.4	HSPA4	ENSG00000170606	heat shock protein family A (Hsp70) member 4 Source HGNC Symbol Acc HGNC 5237
C10	SBH0547087	ENST00000378688.8	HTR2A	ENSG00000102468	5-hydroxytryptamine receptor 2A Source HGNC Symbol Acc HGNC 5293
		ENST00000645		ENSG000000	potassium voltage-gated channel subfamily J member 6 Source HGNC Symbol

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0559370	093.1	KCNJ6	157542	Acc HGNC 6267
C12	SBH0305365	ENST00000416796.5	LRRK2	ENSG00000188906	leucine rich repeat kinase 2 Source HGNC Symbol Acc HGNC 18618
D01	SBH0380071	ENST00000343111.10	MAPK9	ENSG00000050748	mitogen-activated protein kinase 9 Source HGNC Symbol Acc HGNC 6886
D02	SBH0522404	ENST00000570299.5	MAPT	ENSG00000186868	microtubule associated protein tau Source HGNC Symbol Acc HGNC 6893
D03	SBH0605604	ENST00000348332.7	NCOA1	ENSG00000084676	nuclear receptor coactivator 1 Source HGNC Symbol Acc HGNC 7668
D04	SBH0127200	ENST00000619417.1	NEFL	ENSG00000277586	neurofilament light Source HGNC Symbol Acc HGNC 7739
D05	SBH0174474	ENST00000413225.5	NFASC	ENSG00000163531	neurofascin Source HGNC Symbol Acc HGNC 29866
D06	SBH0444745	ENST00000339562.9	NR4A2	ENSG00000153234	nuclear receptor subfamily 4 group A member 2 Source HGNC Symbol Acc HGNC 7981
D07	SBH0315787	ENST00000635466.1	NRXN3	ENSG00000021645	neurexin 3 Source HGNC Symbol Acc HGNC 8010
D08	SBH0108624	ENST00000571172.5	NSF	ENSG00000073969	N-ethylmaleimide sensitive factor, vesicle fusing ATPase Source HGNC Symbol Acc HGNC 8016
D09	SBH0629742	ENST00000277120.7	NTRK2	ENSG00000148053	neurotrophic receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 8032
D10	SBH0259607	ENST00000361828.7	OPA1	ENSG00000198836	OPA1, mitochondrial dynamin like GTPase Source HGNC Symbol Acc HGNC 8140
D11	SBH0418811	ENST00000552630.1	PAN2	ENSG00000135473	poly(A) specific ribonuclease subunit PAN2 Source HGNC Symbol Acc HGNC 20074
D12	SBH0412425	ENST00000366898.6	PRKN	ENSG00000185345	parkin RBR E3 ubiquitin protein ligase Source HGNC Symbol Acc HGNC 8607
E01	SBH0061061	ENST00000465354.5	PARK7	ENSG00000116288	Parkinsonism associated deglycase Source HGNC Symbol Acc HGNC 16369
E02	SBH0576061	ENST00000400490.2	PINK1	ENSG00000158828	PTEN induced kinase 1 Source HGNC Symbol Acc HGNC 14581
E03	SBH0406177	ENST00000307720.4	PPID	ENSG00000171497	peptidylprolyl isomerase D Source HGNC Symbol Acc HGNC 9257
E04	SBH1220327	ENST00000301522.3	PRDX2	ENSG00000167815	peroxiredoxin 2 Source HGNC Symbol Acc HGNC 9353
E05	SBH0022194	ENST00000521431.1	PSEN2	ENSG00000143801	presenilin 2 Source HGNC Symbol Acc HGNC 9509
E06	SBH1225378	ENST00000371953.8	PTEN	ENSG00000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
E07	SBH0034278	ENST00000367908.8	RGS4	ENSG00000117152	regulator of G protein signaling 4 Source HGNC Symbol Acc HGNC 10000
E08	SBH0645128	ENST00000342503.8	RTN1	ENSG00000139970	reticulon 1 Source HGNC Symbol Acc HGNC 10467
E09	SBH0183139	ENST00000291700.9	S100B	ENSG00000160307	S100 calcium binding protein B Source HGNC Symbol Acc HGNC 10500
E10	SBH0411384	ENST00000383045.7	SEPT5	ENSG00000184702	septin 5 Source HGNC Symbol Acc HGNC 9164
E11	SBH0628081	ENST00000521216.5	SKP1	ENSG00000113558	S-phase kinase associated protein 1 Source HGNC Symbol Acc HGNC 10899
E12	SBH0244203	ENST00000298472.10	SLC18A2	ENSG00000165646	solute carrier family 18 member A2 Source HGNC Symbol Acc HGNC 10935
F01	SBH0594083	ENST00000491736.1	SLC25A4	ENSG00000151729	solute carrier family 25 member 4 Source HGNC Symbol Acc HGNC 10990
F02	SBH0245655	ENST00000512002.2	SLC6A3	ENSG00000142319	solute carrier family 6 member 3 Source HGNC Symbol Acc HGNC 11049
F03	SBH0575942	ENST00000456008.2	SLIT1	ENSG00000187122	slit guidance ligand 1 Source HGNC Symbol Acc HGNC 11085
F04	SBH0118819	ENST00000394991.7	SNCA	ENSG00000145335	synuclein alpha Source HGNC Symbol Acc HGNC 11138
F05	SBH0313590	ENST00000375759.8	SPEN	ENSG00000065526	spen family transcriptional repressor Source HGNC Symbol Acc HGNC 17575
F06	SBH0071244	ENST00000452806.5	SRSF7	ENSG00000115875	serine and arginine rich splicing factor 7 Source HGNC Symbol Acc HGNC 10789
F07	SBH0269639	ENST00000564370.5	STUB1	ENSG00000103266	STIP1 homology and U-box containing protein 1 Source HGNC Symbol Acc HGNC 11427
F08	SBH0553198	ENST00000553727.1	SV2B	ENSG00000185518	synaptic vesicle glycoprotein 2B Source HGNC Symbol Acc HGNC 16874
F09	SBH0236264	ENST00000248121.7	SYNGR3	ENSG00000127561	synaptogyrin 3 Source HGNC Symbol Acc HGNC 11501
F10	SBH0037295	ENST00000457153.6	SYT1	ENSG00000067715	synaptotagmin 1 Source HGNC Symbol Acc HGNC 11509

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0094231	ENST00000368324.5	SYT11	ENSG00000132718	synaptotagmin 11 Source HGNC Symbol Acc HGNC 19239
F12	SBH0385754	ENST00000355717.9	TCF7L2	ENSG00000148737	transcription factor 7 like 2 Source HGNC Symbol Acc HGNC 11641
G01	SBH0245945	ENST00000412076.1	TH	ENSG00000180176	tyrosine hydroxylase Source HGNC Symbol Acc HGNC 11782
G02	SBH0216165	ENST00000543496.3	TPBG	ENSG00000146242	trophoblast glycoprotein Source HGNC Symbol Acc HGNC 12004
G03	SBH0250405	ENST00000377351.8	UBA1	ENSG00000130985	ubiquitin like modifier activating enzyme 1 Source HGNC Symbol Acc HGNC 12469
G04	SBH0421370	ENST00000577958.1	UBB	ENSG00000170315	ubiquitin B Source HGNC Symbol Acc HGNC 12463
G05	SBH0417864	ENST00000568209.5	UBE2I	ENSG00000103275	ubiquitin conjugating enzyme E2 I Source HGNC Symbol Acc HGNC 12485
G06	SBH0427020	ENST00000445950.2	UBE2K	ENSG00000078140	ubiquitin conjugating enzyme E2 K Source HGNC Symbol Acc HGNC 4914
G07	SBH0162378	ENST00000545681.2	UBE2L3	ENSG00000185651	ubiquitin conjugating enzyme E2 L3 Source HGNC Symbol Acc HGNC 12488
G08	SBH0084476	ENST00000284440.8	UCHL1	ENSG00000154277	ubiquitin C-terminal hydrolase L1 Source HGNC Symbol Acc HGNC 12513
G09	SBH0266874	ENST00000472689.5	USP34	ENSG00000115464	ubiquitin specific peptidase 34 Source HGNC Symbol Acc HGNC 20066
G10	SBH0527089	ENST00000400911.7	VAMP1	ENSG00000139190	vesicle associated membrane protein 1 Source HGNC Symbol Acc HGNC 12642
G11	SBH0478189	ENST00000518563.5	VDAC3	ENSG00000078668	voltage dependent anion channel 3 Source HGNC Symbol Acc HGNC 12674
G12	SBH0393119	ENST00000395957.6	YWHAZ	ENSG00000164924	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta Source HGNC Symbol Acc HGNC 12855
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human 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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