

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

Mouse Parkinson's Disease

Cat. no. 249950 SBMM-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	Cxcl1	Ddc	Dlk1	Drd2	Egln1
C	Fbxo9	Fgf13	Fn1	Gabbr2	Gbe1	Gpr37	Gria3	Hspa4	Htr2a	Kcnj6	Lrrk2	Mapk9
D	Mapt	Ncoa1	Nefl	Nfasc	Nr4a2	Nrxn3	Nsf	Nsg1	Ntrk2	Opa1	Pan2	Prkn
E	Park7	Pink1	Ppid	Prdx2	Psen2	Pten	Rgs4	Rtn1	S100b	Sept5	Skp1a	Slc18a2
F	Slc25a4	Slc6a3	Slit1	Snca	Spn	Srsf7	Stub1	Sv2b	Syng3	Syt1	Syt11	Tcf7l2
G	Th	Tpbg	Uba1	Ubc	Ube2i	Ube2k	Ube2l3	Uchl1	Usp34	Vamp1	Vdac3	Ywhoz
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0801506	ENSMUST00000225337.2	Aldh1a1	ENSMUSG0000053279	aldehyde dehydrogenase family 1, subfamily A1 Source MGI Symbol Acc MGI 1353450
A02	SBM0782035	ENSMUST00000079362.12	Apc	ENSMUSG0000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A03	SBM0970132	ENSMUST00000226801.1	App	ENSMUSG0000022892	amyloid beta (A4) precursor protein Source MGI Symbol Acc MGI 88059
A04	SBM0809551	ENSMUST00000101045.9	Atp2b2	ENSMUSG0000030302	ATPase, Ca++ transporting, plasma membrane 2 Source MGI Symbol Acc MGI 105368
A05	SBM0899883	ENSMUST00000225761.1	Atxn2	ENSMUSG0000042605	ataxin 2 Source MGI Symbol Acc MGI 1277223
A06	SBM0959195	ENSMUST00000161011.7	Atxn3	ENSMUSG0000021189	ataxin 3 Source MGI Symbol Acc MGI 1099442
A07	SBM1083009	ENSMUST00000058845.8	Basp1	ENSMUSG0000045763	brain abundant, membrane attached signal protein 1 Source MGI Symbol Acc MGI 1917600
A08	SBM0985592	ENSMUST00000111042.2	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A09	SBM0825951	ENSMUST00000177814.1	Cadps	ENSMUSG0000054423	Ca2+-dependent secretion activator Source MGI Symbol Acc MGI 1350922
A10	SBM0862549	ENSMUST00000027015.5	Casp1	ENSMUSG0000025888	caspase 1 Source MGI Symbol Acc MGI 96544
A11	SBM0732165	ENSMUST00000093517.6	Casp3	ENSMUSG0000031628	caspase 3 Source MGI Symbol Acc MGI 107739
A12	SBM1225391	ENSMUST00000026062.9	Casp7	ENSMUSG0000025076	caspase 7 Source MGI Symbol Acc MGI 109383
B01	SBM0772558	ENSMUST00000027189.14	Casp8	ENSMUSG0000026029	caspase 8 Source MGI Symbol Acc MGI 1261423
B02	SBM0686567	ENSMUST00000097805.10	Casp9	ENSMUSG0000028914	caspase 9 Source MGI Symbol Acc MGI 1277950
B03	SBM1022788	ENSMUST00000093923.8	Cdc27	ENSMUSG0000020687	cell division cycle 27 Source MGI Symbol Acc MGI 102685
B04	SBM1071094	ENSMUST00000030417.9	Cdc42	ENSMUSG0000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
B05	SBM1036019	ENSMUST00000093249.10	Cdh8	ENSMUSG0000036510	cadherin 8 Source MGI Symbol Acc MGI 107434
B06	SBM0790449	ENSMUST00000028826.3	Chgb	ENSMUSG0000027350	chromogranin B Source MGI Symbol Acc MGI 88395
B07	SBM0870593	ENSMUST00000080089.10	Cul2	ENSMUSG0000024231	cullin 2 Source MGI Symbol Acc MGI 1918995
B08	SBM1014109	ENSMUST00000025444.7	Cxxc1	ENSMUSG0000024560	CXXC finger 1 (PHD domain) Source MGI Symbol Acc MGI 1921572
B09	SBM0826148	ENSMUST000000146359.7	Ddc	ENSMUSG0000020182	dopa decarboxylase Source MGI Symbol Acc MGI 94876
B10	SBM0770323	ENSMUST000000109844.10	Dlk1	ENSMUSG0000040856	delta like non-canonical Notch ligand 1 Source MGI Symbol Acc MGI 94900
B11	SBM0811566	ENSMUST00000075764.7	Drd2	ENSMUSG0000032259	dopamine receptor D2 Source MGI Symbol Acc MGI 94924
B12	SBM0919431	ENSMUST00000034469.6	Egln1	ENSMUSG0000031987	egl-9 family hypoxia-inducible factor 1 Source MGI Symbol Acc MGI 1932286
C01	SBM0766997	ENSMUST000000162625.1	Fbxo9	ENSMUSG0000001366	f-box protein 9 Source MGI Symbol Acc MGI 1918788
C02	SBM0842006	ENSMUST00000033473.11	Fgf13	ENSMUSG0000031137	fibroblast growth factor 13 Source MGI Symbol Acc MGI 109178
C03	SBM0934692	ENSMUST000000185408.6	Fn1	ENSMUSG0000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C04	SBM1093293	ENSMUST000000205643.1	Gabbr2	ENSMUSG0000039809	gamma-aminobutyric acid (GABA) B receptor, 2 Source MGI Symbol Acc MGI 2386030
C05	SBM1002970	ENSMUST000000164300.1	Gbe1	ENSMUSG0000022707	glucan (1,4-alpha-), branching enzyme 1 Source MGI Symbol Acc MGI 1921435
C06	SBM0734658	ENSMUST000000200812.1	Gpr37	ENSMUSG0000039904	G protein-coupled receptor 37 Source MGI Symbol Acc MGI 1313297
C07	SBM0768049	ENSMUST00000076349.11	Gria3	ENSMUSG0000001986	glutamate receptor, ionotropic, AMPA3 (alpha 3) Source MGI Symbol Acc MGI 95810
C08	SBM0909157	ENSMUST00000020630.7	Hspa4	ENSMUSG0000020361	heat shock protein 4 Source MGI Symbol Acc MGI 1342292
C09	SBM1031976	ENSMUST00000036653.4	Htr2a	ENSMUSG0000034997	5-hydroxytryptamine (serotonin) receptor 2A Source MGI Symbol Acc MGI 109521
C10	SBM1008730	ENSMUST000000232562.1	Kcnj6	ENSMUSG0000043301	potassium inwardly-rectifying channel, subfamily J, member 6 Source MGI Symbol Acc MGI 104781
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1092718	137657.1	Lrrk2	000036273	leucine-rich repeat kinase 2 Source MGI Symbol Acc MGI 1913975
C12	SBM1025510	ENSMUST00000144857.7	Mapk9	ENSMUSG0000020366	mitogen-activated protein kinase 9 Source MGI Symbol Acc MGI 1346862
D01	SBM1092220	ENSMUST00000106992.9	Mapt	ENSMUSG0000018411	microtubule-associated protein tau Source MGI Symbol Acc MGI 97180
D02	SBM1041717	ENSMUST00000219373.1	Ncoa1	ENSMUSG0000020647	nuclear receptor coactivator 1 Source MGI Symbol Acc MGI 1276523
D03	SBM0983466	ENSMUST00000022639.7	Nefl	ENSMUSG0000022055	neurofilament, light polypeptide Source MGI Symbol Acc MGI 97313
D04	SBM1060165	ENSMUST00000186539.1	Nfasc	ENSMUSG0000026442	neurofascin Source MGI Symbol Acc MGI 104753
D05	SBM1012315	ENSMUST00000183542.7	Nr4a2	ENSMUSG0000026826	nuclear receptor subfamily 4, group A, member 2 Source MGI Symbol Acc MGI 1352456
D06	SBM0904796	ENSMUST00000110133.8	Nrxn3	ENSMUSG0000066392	neurexin III Source MGI Symbol Acc MGI 1096389
D07	SBM0692088	ENSMUST00000149642.2	Nsf	ENSMUSG0000034187	N-ethylmaleimide sensitive fusion protein Source MGI Symbol Acc MGI 104560
D08	SBM0845417	ENSMUST00000031009.7	Nsg1	ENSMUSG0000029126	neuron specific gene family member 1 Source MGI Symbol Acc MGI 109149
D09	SBM1050719	ENSMUST00000224402.1	Ntrk2	ENSMUSG0000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
D10	SBM0928668	ENSMUST00000162240.1	Opa1	ENSMUSG0000038084	OPA1, mitochondrial dynamin like GTPase Source MGI Symbol Acc MGI 1921393
D11	SBM0775950	ENSMUST00000005825.7	Pan2	ENSMUSG0000005682	PAN2 poly(A) specific ribonuclease subunit Source MGI Symbol Acc MGI 1918984
D12	SBM0950553	ENSMUST00000066658.12	Prkn	ENSMUSG0000023826	parkin RBR E3 ubiquitin protein ligase Source MGI Symbol Acc MGI 1355296
E01	SBM1060425	ENSMUST00000128075.7	Park7	ENSMUSG0000028964	Parkinson disease (autosomal recessive, early onset) 7 Source MGI Symbol Acc MGI 2135637
E02	SBM0984161	ENSMUST00000030536.12	Pink1	ENSMUSG0000028756	PTEN induced putative kinase 1 Source MGI Symbol Acc MGI 1916193
E03	SBM0932503	ENSMUST00000159505.2	Ppid	ENSMUSG0000027804	peptidylprolyl isomerase D (cyclophilin D) Source MGI Symbol Acc MGI 1914988
E04	SBM0684492	ENSMUST00000164807.1	Prdx2	ENSMUSG0000005161	peroxiredoxin 2 Source MGI Symbol Acc MGI 109486
E05	SBM0822272	ENSMUST00000130711.7	Psen2	ENSMUSG0000010609	presenilin 2 Source MGI Symbol Acc MGI 109284
E06	SBM1220566	ENSMUST00000013807.7	Pten	ENSMUSG0000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
E07	SBM1088648	ENSMUST00000132567.1	Rgs4	ENSMUSG0000038530	regulator of G-protein signaling 4 Source MGI Symbol Acc MGI 108409
E08	SBM0723638	ENSMUST00000021497.15	Rtn1	ENSMUSG0000021087	reticulon 1 Source MGI Symbol Acc MGI 1933947
E09	SBM1054599	ENSMUST00000036387.7	S100b	ENSMUSG0000033208	S100 protein, beta polypeptide, neural Source MGI Symbol Acc MGI 98217
E10	SBM1074136	ENSMUST00000231244.1	Sept5	ENSMUSG0000072214	septin 5 Source MGI Symbol Acc MGI 1195461
E11	SBM0702230	ENSMUST00000166537.7	Skp1a	ENSMUSG0000036309	S-phase kinase-associated protein 1A Source MGI Symbol Acc MGI 103575
E12	SBM0732718	ENSMUST00000026084.4	Slc18a2	ENSMUSG0000025094	solute carrier family 18 (vesicular monoamine), member 2 Source MGI Symbol Acc MGI 106677
F01	SBM0684591	ENSMUST00000034049.4	Slc25a4	ENSMUSG0000031633	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4 Source MGI Symbol Acc MGI 1353495
F02	SBM0786291	ENSMUST00000022100.6	Slc6a3	ENSMUSG0000021609	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3 Source MGI Symbol Acc MGI 94862
F03	SBM0948715	ENSMUST00000169416.1	Slit1	ENSMUSG0000025020	slit guidance ligand 1 Source MGI Symbol Acc MGI 1315203
F04	SBM1045894	ENSMUST00000163779.7	Snca	ENSMUSG0000025889	synuclein, alpha Source MGI Symbol Acc MGI 1277151
F05	SBM0818897	ENSMUST00000152081.1	Spen	ENSMUSG0000040761	spen family transcription repressor Source MGI Symbol Acc MGI 1891706
F06	SBM0973586	ENSMUST00000234889.1	Srsf7	ENSMUSG0000024097	serine/arginine-rich splicing factor 7 Source MGI Symbol Acc MGI 1926232
F07	SBM1072530	ENSMUST00000236361.1	Stub1	ENSMUSG0000039615	STIP1 homology and U-Box containing protein 1 Source MGI Symbol Acc MGI 1891731
F08	SBM0774393	ENSMUST00000207001.1	Sv2b	ENSMUSG0000053025	synaptic vesicle glycoprotein 2 b Source MGI Symbol Acc MGI 1927338
F09	SBM0815487	ENSMUST00000007236.4	Syngn3	ENSMUSG0000007021	synaptogyrin 3 Source MGI Symbol Acc MGI 1341881
F10	SBM0968781	ENSMUST00000147593.1	Syt1	ENSMUSG0000035864	synaptotagmin I Source MGI Symbol Acc MGI 99667

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1079610	ENSMUST00000107505.7	Syt11	ENSMUSG00000068923	synaptotagmin XI Source MGI Symbol Acc MGI 1859547
F12	SBM0875642	ENSMUST00000111657.10	Tcf7l2	ENSMUSG00000024985	transcription factor 7 like 2, T cell specific, HMG box Source MGI Symbol Acc MGI 1202879
G01	SBM0766276	ENSMUST00000000219.9	Th	ENSMUSG00000000214	tyrosine hydroxylase Source MGI Symbol Acc MGI 98735
G02	SBM0955453	ENSMUST00000098500.4	Tpbp	ENSMUSG00000035274	trophoblast glycoprotein Source MGI Symbol Acc MGI 1341264
G03	SBM0932405	ENSMUST00000089217.10	Uba1	ENSMUSG0000001924	ubiquitin-like modifier activating enzyme 1 Source MGI Symbol Acc MGI 98890
G04	SBM1046001	ENSMUST00000136312.1	Ubc	ENSMUSG00000008348	ubiquitin C Source MGI Symbol Acc MGI 98889
G05	SBM0823091	ENSMUST00000173713.7	Ube2i	ENSMUSG0000015120	ubiquitin-conjugating enzyme E2I Source MGI Symbol Acc MGI 107365
G06	SBM1039215	ENSMUST00000201383.1	Ube2k	ENSMUSG00000029203	ubiquitin-conjugating enzyme E2K Source MGI Symbol Acc MGI 1858216
G07	SBM1073414	ENSMUST00000231643.1	Ube2l3	ENSMUSG00000038965	ubiquitin-conjugating enzyme E2L 3 Source MGI Symbol Acc MGI 109240
G08	SBM0909454	ENSMUST00000202339.1	Uchl1	ENSMUSG00000029223	ubiquitin carboxy-terminal hydrolase L1 Source MGI Symbol Acc MGI 103149
G09	SBM0772259	ENSMUST00000180046.7	Usp34	ENSMUSG00000056342	ubiquitin specific peptidase 34 Source MGI Symbol Acc MGI 109473
G10	SBM0781141	ENSMUST00000205223.1	Vamp1	ENSMUSG00000030337	vesicle-associated membrane protein 1 Source MGI Symbol Acc MGI 1313276
G11	SBM0998161	ENSMUST00000179233.1	Vdac3	ENSMUSG00000008892	voltage-dependent anion channel 3 Source MGI Symbol Acc MGI 106922
G12	SBM0889438	ENSMUST00000110361.7	Ywhaz	ENSMUSG00000022285	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide Source MGI Symbol Acc MGI 109484
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse 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.