

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

Mouse Neurogenesis

Cat. no. 249955 UPMM-404ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light 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 Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA Probe 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 Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Ache	Adora1	Adora2a	Alk	Apbb1	Apoe	App	Arfn	Ascl1	Bcl2	Bdnf	Bmp2
B	Bmp4	Bmp8b	Cdk5r1	Cdk5rap2	Chrm2	Creb1	Cxcl1	Dcx	Dlg4	Dll1	Drd2	Dvl3
C	Efnb1	Egf	Ep300	Erbp2	Fgf2	Flna	Gdnf	Gpi1	Grin1	Hdac4	Hes1	Hey1
D	Hey2	Heyl	Il3	Mdk	Mef2c	Kmt2a	Map2	Ndn	Ndp	Neurod1	Neurog1	Neurog2
E	Nf1	Nog	Notch1	Notch2	Nr2e3	Nrcam	Nrg1	Nrp1	Nrp2	Nrf3	Ntn1	Tenm1
F	Olig2	Pafah1b1	Pard3	Pax3	Pax5	Pax6	Pou3f3	Pou4f1	Ptn	Rac1	Robo1	Rtn4
G	S100a6	S100b	Shh	Sli12	Sod1	Sox2	Sox3	Stat3	Tgfb1	Th	Tnr	Vegfa
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM076893 3	ENSMUST00000 196208.4	Ache	ENSMUSG00 000023328	acetylcholinesterase Source MGI Symbol Acc MGI 87876
A02	UPFM090985 0	ENSMUST00000 187631.1	Adora1	ENSMUSG00 000042429	adenosine A1 receptor Source MGI Symbol Acc MGI 99401
A03	UPFM076524 3	ENSMUST00000 219044.1	Adora2a	ENSMUSG00 000020178	adenosine A2a receptor Source MGI Symbol Acc MGI 99402
A04	UPFM088446 5	ENSMUST00000 086639.5	Alk	ENSMUSG00 000055471	anaplastic lymphoma kinase Source MGI Symbol Acc MGI 103305
A05	UPFM088142 1	ENSMUST00000 189265.6	Apbb1	ENSMUSG00 000037032	amyloid beta (A4) precursor protein-binding, family B, member 1 Source MGI Symbol Acc MGI 107765
A06	UPFM092642 1	ENSMUST00000 172808.1	ApoE	ENSMUSG00 000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
A07	UPFM081516 9	ENSMUST00000 227723.1	App	ENSMUSG00 000002892	amyloid beta (A4) precursor protein Source MGI Symbol Acc MGI 88059
A08	UPFM099788 0	ENSMUST00000 133703.7	Artn	ENSMUSG00 000028539	artemin Source MGI Symbol Acc MGI 1333791
A09	UPFM087183 3	ENSMUST00000 020243.9	Ascl1	ENSMUSG00 000020052	achaete-scute family bHLH transcription factor 1 Source MGI Symbol Acc MGI 96919
A10	UPFM063585 3	ENSMUST00000 112751.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A11	UPFM085815 5	ENSMUST00000 111049.8	Bdnf	ENSMUSG00 000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A12	UPFM117294 5	ENSMUST00000 028836.6	Bmp2	ENSMUSG00 000027358	bone morphogenetic protein 2 Source MGI Symbol Acc MGI 88177
B01	UPFM097472 7	ENSMUST00000 100676.2	Bmp4	ENSMUSG00 000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
B02	UPFM099929 3	ENSMUST00000 002457.1	Bmp8b	ENSMUSG00 000002384	bone morphogenetic protein 8b Source MGI Symbol Acc MGI 107335
B03	UPFM078028 9	ENSMUST00000 053413.11	Cdk5r1	ENSMUSG00 000048895	cyclin-dependent kinase 5, regulatory subunit 1 (p35) Source MGI Symbol Acc MGI 101764
B04	UPFM097045 4	ENSMUST00000 140108.1	Cdk5rap2	ENSMUSG00 000039298	CDK5 regulatory subunit associated protein 2 Source MGI Symbol Acc MGI 2384875
B05	UPFM093030 6	ENSMUST00000 172278.7	Chrm2	ENSMUSG00 000045613	cholinergic receptor, muscarinic 2, cardiac Source MGI Symbol Acc MGI 88397
B06	UPFM085293 8	ENSMUST00000 087366.10	Creb1	ENSMUSG00 000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B07	UPFM097448 9	ENSMUST00000 031327.8	Cxcl1	ENSMUSG00 000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B08	UPFM078760 6	ENSMUST00000 033642.9	Dcx	ENSMUSG00 000031285	doublecortin Source MGI Symbol Acc MGI 1277171
B09	UPFM079262 8	ENSMUST00000 123687.2	Dlg4	ENSMUSG00 000020886	discs large MAGUK scaffold protein 4 Source MGI Symbol Acc MGI 1277959
B10	UPFM084775 6	ENSMUST00000 129395.7	Dll1	ENSMUSG00 000014773	delta like canonical Notch ligand 1 Source MGI Symbol Acc MGI 104659
B11	UPFM085072 5	ENSMUST00000 075764.7	Drd2	ENSMUSG00 000032259	dopamine receptor D2 Source MGI Symbol Acc MGI 94924
B12	UPFM079057 1	ENSMUST00000 171774.1	Dvl3	ENSMUSG00 000003233	dishevelled segment polarity protein 3 Source MGI Symbol Acc MGI 108100
C01	UPFM098391 0	ENSMUST00000 151750.1	Efnb1	ENSMUSG00 000031217	ephrin B1 Source MGI Symbol Acc MGI 102708
C02	UPFM092572 5	ENSMUST00000 199615.4	Egf	ENSMUSG00 000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
C03	UPFM063958 2	ENSMUST00000 185967.2	Ep300	ENSMUSG00 000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
C04	UPFM099508 8	ENSMUST00000 136032.1	ErbB2	ENSMUSG00 000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
C05	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C06	UPFM083696 9	ENSMUST00000 101454.8	Flna	ENSMUSG00 000031328	filamin, alpha Source MGI Symbol Acc MGI 95556
C07	UPFM079126 9	ENSMUST00000 022744.4	Gdnf	ENSMUSG00 000022144	glial cell line derived neurotrophic factor Source MGI Symbol Acc MGI 107430
C08	UPFM070892 8	ENSMUST00000 205865.1	Gpi1	ENSMUSG00 000036427	glucose phosphate isomerase 1 Source MGI Symbol Acc MGI 95797
C09	UPFM066058 1	ENSMUST00000 114312.1	Grin1	ENSMUSG00 000026959	glutamate receptor, ionotropic, NMDA1 (zeta 1) Source MGI Symbol Acc MGI 95819
C10	UPFM071358 8	ENSMUST00000 097644.8	Hdac4	ENSMUSG00 000026313	histone deacetylase 4 Source MGI Symbol Acc MGI 3036234
	UPFM064713	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	7	160592.2	Hes1	000022528	hes family bHLH transcription factor 1 Source MGI Symbol Acc MGI 104853
C12	UPFM100319 5	ENSMUST00000 192102.1	Hey1	ENSMUSG00 000040289	hairy/enhancer-of-split related with YRPW motif 1 Source MGI Symbol Acc MGI 1341800
D01	UPFM065073 4	ENSMUST00000 019924.8	Hey2	ENSMUSG00 000019789	hairy/enhancer-of-split related with YRPW motif 2 Source MGI Symbol Acc MGI 1341884
D02	UPFM085110 6	ENSMUST00000 127172.1	Heyl	ENSMUSG00 000032744	hairy/enhancer-of-split related with YRPW motif-like Source MGI Symbol Acc MGI 1860511
D03	UPFM084591 6	ENSMUST00000 019058.5	Il3	ENSMUSG00 000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
D04	UPFM064639 8	ENSMUST00000 069423.12	Mdk	ENSMUSG00 000027239	midkine Source MGI Symbol Acc MGI 96949
D05	UPFM062873 4	ENSMUST00000 199262.1	Mef2c	ENSMUSG00 000005583	myocyte enhancer factor 2C Source MGI Symbol Acc MGI 99458
D06	UPFM062660 3	ENSMUST00000 002095.10	Kmt2a	ENSMUSG00 000002028	lysine (K)-specific methyltransferase 2A Source MGI Symbol Acc MGI 96995
D07	UPFM068287 5	ENSMUST00000 151423.8	Map2	ENSMUSG00 000015222	microtubule-associated protein 2 Source MGI Symbol Acc MGI 97175
D08	UPFM076755 3	ENSMUST00000 038775.5	Ndn	ENSMUSG00 000033585	necdin Source MGI Symbol Acc MGI 97290
D09	UPFM074930 3	ENSMUST00000 040134.7	Ndp	ENSMUSG00 000040138	Norrie disease (pseudoglioma) (human) Source MGI Symbol Acc MGI 102570
D10	UPFM066462 4	ENSMUST00000 041099.4	Neurod1	ENSMUSG00 000034701	neurogenic differentiation 1 Source MGI Symbol Acc MGI 1339708
D11	UPFM066125 6	ENSMUST00000 058475.5	Neurog1	ENSMUSG00 000048904	neurogenin 1 Source MGI Symbol Acc MGI 107754
D12	UPFM091609 6	ENSMUST00000 029587.8	Neurog2	ENSMUSG00 000027967	neurogenin 2 Source MGI Symbol Acc MGI 109619
E01	UPFM099655 1	ENSMUST00000 122917.7	Nf1	ENSMUSG00 000020716	neurofibromin 1 Source MGI Symbol Acc MGI 97306
E02	UPFM082705 5	ENSMUST00000 061728.4	Nog	ENSMUSG00 000048616	noggin Source MGI Symbol Acc MGI 104327
E03	UPFM079598 7	ENSMUST00000 126872.7	Notch1	ENSMUSG00 000026923	notch 1 Source MGI Symbol Acc MGI 97363
E04	UPFM093566 5	ENSMUST00000 079812.7	Notch2	ENSMUSG00 000027878	notch 2 Source MGI Symbol Acc MGI 97364
E05	UPFM076878 0	ENSMUST00000 034831.2	Nr2e3	ENSMUSG00 000032292	nuclear receptor subfamily 2, group E, member 3 Source MGI Symbol Acc MGI 1346317
E06	UPFM083153 9	ENSMUST00000 220126.1	Nrcam	ENSMUSG00 000020598	neuronal cell adhesion molecule Source MGI Symbol Acc MGI 104750
E07	UPFM070947 9	ENSMUST00000 207470.1	Nrg1	ENSMUSG00 000062991	neuregulin 1 Source MGI Symbol Acc MGI 96083
E08	UPFM072744 5	ENSMUST00000 212746.1	Nrp1	ENSMUSG00 000025810	neuropilin 1 Source MGI Symbol Acc MGI 106206
E09	UPFM096534 2	ENSMUST00000 063594.12	Nrp2	ENSMUSG00 000025969	neuropilin 2 Source MGI Symbol Acc MGI 1100492
E10	UPFM082388 6	ENSMUST00000 112244.7	Nrf3	ENSMUSG00 000049107	neurotrophin 3 Source MGI Symbol Acc MGI 97380
E11	UPFM083103 2	ENSMUST00000 108674.8	Ntn1	ENSMUSG00 000020902	netrin 1 Source MGI Symbol Acc MGI 105088
E12	UPFM078054 9	ENSMUST00000 154433.7	Tenm1	ENSMUSG00 000016150	teneurin transmembrane protein 1 Source MGI Symbol Acc MGI 1345185
F01	UPFM080070 9	ENSMUST00000 035608.9	Olig2	ENSMUSG00 000039830	oligodendrocyte transcription factor 2 Source MGI Symbol Acc MGI 1355331
F02	UPFM083160 9	ENSMUST00000 156794.1	Pafah1b1	ENSMUSG00 000020745	platelet-activating factor acetylhydrolase, isoform 1b, subunit 1 Source MGI Symbol Acc MGI 109520
F03	UPFM079341 5	ENSMUST00000 162309.7	Pard3	ENSMUSG00 000025812	par-3 family cell polarity regulator Source MGI Symbol Acc MGI 2135608
F04	UPFM096336 7	ENSMUST00000 004994.15	Pax3	ENSMUSG00 000004872	paired box 3 Source MGI Symbol Acc MGI 97487
F05	UPFM074642 0	ENSMUST00000 174319.7	Pax5	ENSMUSG00 000014030	paired box 5 Source MGI Symbol Acc MGI 97489
F06	UPFM072669 9	ENSMUST00000 111085.7	Pax6	ENSMUSG00 000027168	paired box 6 Source MGI Symbol Acc MGI 97490
F07	UPFM083816 3	ENSMUST00000 054883.3	Pou3f3	ENSMUSG00 000045515	POU domain, class 3, transcription factor 3 Source MGI Symbol Acc MGI 102564
F08	UPFM087776 0	ENSMUST00000 053016.9	Pou4f1	ENSMUSG00 000048349	POU domain, class 4, transcription factor 1 Source MGI Symbol Acc MGI 102525
F09	UPFM079372 2	ENSMUST00000 101534.4	Ptn	ENSMUSG00 000029838	pleiotrophin Source MGI Symbol Acc MGI 97804
F10	UPFM096241 9	ENSMUST00000 131513.1	Rac1	ENSMUSG00 000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0792908	ENSMUST0000023600.7	Robo1	ENSMUSG0000022883	roundabout guidance receptor 1 Source MGI Symbol Acc MGI 1274781
F12	UPFM0890162	ENSMUST00000156217.7	Rtn4	ENSMUSG0000020458	reticulon 4 Source MGI Symbol Acc MGI 1915835
G01	UPFM0994687	ENSMUST00000200289.1	S100a6	ENSMUSG0000001025	S100 calcium binding protein A6 (calcyclin) Source MGI Symbol Acc MGI 1339467
G02	UPFM0654732	ENSMUST00000036387.7	S100b	ENSMUSG0000003208	S100 protein, beta polypeptide, neural Source MGI Symbol Acc MGI 98217
G03	UPFM0737070	ENSMUST00000002708.4	Shh	ENSMUSG0000002633	sonic hedgehog Source MGI Symbol Acc MGI 98297
G04	UPFM0669671	ENSMUST000000197400.4	Slit2	ENSMUSG00000031558	slit guidance ligand 2 Source MGI Symbol Acc MGI 1315205
G05	UPFM0927620	ENSMUST00000023707.10	Sod1	ENSMUSG0000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
G06	UPFM0806767	ENSMUST00000099151.5	Sox2	ENSMUSG0000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364
G07	UPFM0935240	ENSMUST000000135107.3	Sox3	ENSMUSG0000045179	SRY (sex determining region Y)-box 3 Source MGI Symbol Acc MGI 98365
G08	UPFM0984845	ENSMUST00000092671.11	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G09	UPFM0666880	ENSMUST000000171757.1	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G10	UPFM0760054	ENSMUST00000000219.9	Th	ENSMUSG0000000214	tyrosine hydroxylase Source MGI Symbol Acc MGI 98735
G11	UPFM0996177	ENSMUST000000192069.5	Tnr	ENSMUSG0000015829	tenascin R Source MGI Symbol Acc MGI 99516
G12	UPFM1172966	ENSMUST000000214739.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
H01	UPFM1132946	ENSMUST000000163829.1	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST000000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST000000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST000000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST000000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM1126609	UPL_MGDC	MGDC	UPL_MGDC	Mouse Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control



Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
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 Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe 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	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe 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.