

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

Mouse Notch Signaling Targets

Cat. no. 249955 UPMM-259ZR

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	Abi1	Adamts1	Bdnf	Cbfa2t3	Ccnd1	Ccnd2	Clock	Crebbp	Cx3cl1	Cxcl1	Cxcl12	Dkk1
B	Dtx1	Edn1	Efnal	Efnb1	Egr3	Fabp7	Fxp1	Fit1	Foxc1	Foxd3	Foxf1	Frzb
C	Fzd5	Gadd45b	Gpsm2	Hbegf	Hes1	Hes5	Hes7	Hey1	Hey2	Heyl	Hspb8	Id1
D	Id2	Id3	Id4	Igfbp3	Il33	Jag1	Jun	Kalrn	Kitl	Krt14	Lfng	Mark1
E	Msc	Myf5	Nampt	Nes	Nodal	Notch1	Notch3	Nrarp	Pax6	Pbx1	Pcdh8	Pdgfrb
F	Pdgfra	Pdgfrb	Ptcra	Ptgs2	Rbpj	Rbpjl	Rhov	Rnd1	Runx1	Runx2	Slpr3	Sgpl1
G	Snai1	Smn1	Socs3	Sox9	Tcf15	Tec	Tnc	Vegfa	Ccn4	Wnt4	Wnt5a	Wnt6
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	UPFM089352 2	ENSMUST00000028190.12	Abl1	ENSMUSG0000026842	c-abl oncogene 1, non-receptor tyrosine kinase Source MGI Symbol Acc MGI 87859
A02	UPFM066463 0	ENSMUST00000125897.1	Adams1	ENSMUSG0000022893	a disintegrin-like and metallopeptidase (repolyisin type) with thrombospondin type 1 motif, 1 Source MGI Symbol Acc MGI 109249
A03	UPFM085815 5	ENSMUST00000111049.8	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A04	UPFM075284 4	ENSMUST00000142535.7	Cbfa2t3	ENSMUSG0000006362	CBFA2/RUNX1 translocation partner 3 Source MGI Symbol Acc MGI 1338013
A05	UPFM093346 3	ENSMUST00000208193.1	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A06	UPFM086144 2	ENSMUST00000201066.1	Ccnd2	ENSMUSG0000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
A07	UPFM068884 7	ENSMUST00000075159.4	Clock	ENSMUSG0000029238	circadian locomotor output cycles kaput Source MGI Symbol Acc MGI 99698
A08	UPFM086770 7	ENSMUST00000206098.1	Crebbp	ENSMUSG0000022521	CREB binding protein Source MGI Symbol Acc MGI 1098280
A09	UPFM069455 3	ENSMUST00000150307.1	Cx3cl1	ENSMUSG00000031778	chemokine (C-X3-C motif) ligand 1 Source MGI Symbol Acc MGI 1097153
A10	UPFM097448 9	ENSMUST00000031327.8	Cxcl1	ENSMUSG0000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
A11	UPFM084136 8	ENSMUST00000112871.7	Cxcl12	ENSMUSG0000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
A12	UPFM100823 0	ENSMUST00000025803.8	Dkk1	ENSMUSG0000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
B01	UPFM067916 9	ENSMUST00000144889.7	Dtx1	ENSMUSG0000029603	deltex 1, E3 ubiquitin ligase Source MGI Symbol Acc MGI 1352744
B02	UPFM063234 4	ENSMUST00000021796.8	Edn1	ENSMUSG00000021367	endothelin 1 Source MGI Symbol Acc MGI 95283
B03	UPFM091956 4	ENSMUST00000118860.1	EfnA1	ENSMUSG0000027954	ephrin A1 Source MGI Symbol Acc MGI 103236
B04	UPFM098391 0	ENSMUST00000151750.1	EfnB1	ENSMUSG0000031217	ephrin B1 Source MGI Symbol Acc MGI 102708
B05	UPFM081883 4	ENSMUST00000225200.1	Egr3	ENSMUSG0000033730	early growth response 3 Source MGI Symbol Acc MGI 1306780
B06	UPFM067317 4	ENSMUST00000165013.1	Fabp7	ENSMUSG0000019874	fatty acid binding protein 7, brain Source MGI Symbol Acc MGI 101916
B07	UPFM074594 9	ENSMUST00000099678.4	Fbx1	ENSMUSG0000075012	four jointed box 1 Source MGI Symbol Acc MGI 1341907
B08	UPFM071363 0	ENSMUST00000110529.5	Flt1	ENSMUSG0000029648	FMS-like tyrosine kinase 1 Source MGI Symbol Acc MGI 95558
B09	UPFM072165 3	ENSMUST00000062292.4	Foxc1	ENSMUSG0000050295	forkhead box C1 Source MGI Symbol Acc MGI 1347466
B10	UPFM064101 0	ENSMUST00000087285.4	Foxd3	ENSMUSG0000067261	forkhead box D3 Source MGI Symbol Acc MGI 1347473
B11	UPFM082662 2	ENSMUST00000181504.1	Foxf1	ENSMUSG0000042812	forkhead box F1 Source MGI Symbol Acc MGI 1347470
B12	UPFM071564 3	ENSMUST00000028389.3	Frzb	ENSMUSG0000027004	frizzled-related protein Source MGI Symbol Acc MGI 892032
C01	UPFM078700 2	ENSMUST00000063982.6	Fzd5	ENSMUSG0000045005	frizzled class receptor 5 Source MGI Symbol Acc MGI 108571
C02	UPFM085248 2	ENSMUST00000220246.1	Gadd45b	ENSMUSG0000015312	growth arrest and DNA-damage-inducible 45 beta Source MGI Symbol Acc MGI 107776
C03	UPFM083673 8	ENSMUST00000145558.1	Gpm2	ENSMUSG0000027883	G-protein signalling modulator 2 (AGS3-like, C. elegans) Source MGI Symbol Acc MGI 1923373
C04	UPFM081237 8	ENSMUST00000025363.6	Hbegf	ENSMUSG0000024486	heparin-binding EGF-like growth factor Source MGI Symbol Acc MGI 96070
C05	UPFM064713 7	ENSMUST00000160592.2	Hes1	ENSMUSG0000022528	hes family bHLH transcription factor 1 Source MGI Symbol Acc MGI 104853
C06	UPFM095879 7	ENSMUST00000049621.6	Hes5	ENSMUSG0000048001	hes family bHLH transcription factor 5 Source MGI Symbol Acc MGI 104876
C07	UPFM084052 9	ENSMUST00000024543.2	Hes7	ENSMUSG0000023781	hes family bHLH transcription factor 7 Source MGI Symbol Acc MGI 2135679
C08	UPFM100319 5	ENSMUST00000192102.1	Hey1	ENSMUSG0000040289	hairy/enhancer-of-split related with YRPW motif 1 Source MGI Symbol Acc MGI 1341800
C09	UPFM065073 4	ENSMUST00000019924.8	Hey2	ENSMUSG0000019789	hairy/enhancer-of-split related with YRPW motif 2 Source MGI Symbol Acc MGI 1341884
C10	UPFM085110 6	ENSMUST00000127172.1	Heyl	ENSMUSG0000032744	hairy/enhancer-of-split related with YRPW motif-like Source MGI Symbol Acc MGI 1860511
	UPFM064218	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	133335.1	Hspb8	000041548	heat shock protein 8 Source MGI Symbol Acc MGI 2135756
C12	UPFM085834 2	ENSMUST00000 109824.1	Id1	ENSMUSG00 000042745	inhibitor of DNA binding 1 Source MGI Symbol Acc MGI 96396
D01	UPFM062324 6	ENSMUST00000 020974.6	Id2	ENSMUSG00 000020644	inhibitor of DNA binding 2 Source MGI Symbol Acc MGI 96397
D02	UPFM082609 7	ENSMUST00000 008016.2	Id3	ENSMUSG00 000007872	inhibitor of DNA binding 3 Source MGI Symbol Acc MGI 96398
D03	UPFM081727 4	ENSMUST00000 021810.2	Id4	ENSMUSG00 000021379	inhibitor of DNA binding 4 Source MGI Symbol Acc MGI 99414
D04	UPFM096898 6	ENSMUST00000 020702.10	Igfbp3	ENSMUSG00 000020427	insulin-like growth factor binding protein 3 Source MGI Symbol Acc MGI 96438
D05	UPFM069160 3	ENSMUST00000 120388.8	Il33	ENSMUSG00 000024810	interleukin 33 Source MGI Symbol Acc MGI 1924375
D06	UPFM083362 5	ENSMUST00000 028735.7	Jag1	ENSMUSG00 000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
D07	UPFM097521 6	ENSMUST00000 107094.1	Jun	ENSMUSG00 000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D08	UPFM069438 4	ENSMUST00000 114953.7	Kalrn	ENSMUSG00 000061751	kalirin, RhoGEF kinase Source MGI Symbol Acc MGI 2685385
D09	UPFM094688 5	ENSMUST00000 105283.8	Kitl	ENSMUSG00 000019966	kit ligand Source MGI Symbol Acc MGI 96974
D10	UPFM073270 5	ENSMUST00000 007272.7	Krt14	ENSMUSG00 000045545	keratin 14 Source MGI Symbol Acc MGI 96688
D11	UPFM085794 8	ENSMUST00000 031555.2	Lfng	ENSMUSG00 000029570	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase Source MGI Symbol Acc MGI 1095413
D12	UPFM088097 7	ENSMUST00000 192657.1	Mark1	ENSMUSG00 000026620	MAP/microtubule affinity regulating kinase 1 Source MGI Symbol Acc MGI 2664902
E01	UPFM091343 9	ENSMUST00000 190719.1	Msc	ENSMUSG00 000025930	musculin Source MGI Symbol Acc MGI 1333884
E02	UPFM080954 1	ENSMUST00000 000445.1	Myf5	ENSMUSG00 000000435	myogenic factor 5 Source MGI Symbol Acc MGI 97252
E03	UPFM073692 2	ENSMUST00000 220200.1	Nampt	ENSMUSG00 000020572	nicotinamide phosphoribosyltransferase Source MGI Symbol Acc MGI 1929865
E04	UPFM097557 2	ENSMUST00000 159830.1	Nes	ENSMUSG00 000004891	nestin Source MGI Symbol Acc MGI 101784
E05	UPFM079984 2	ENSMUST00000 049339.6	Nodal	ENSMUSG00 000037171	nodal Source MGI Symbol Acc MGI 97359
E06	UPFM079598 7	ENSMUST00000 126872.7	Notch1	ENSMUSG00 000026923	notch 1 Source MGI Symbol Acc MGI 97363
E07	UPFM071639 9	ENSMUST00000 236544.1	Notch3	ENSMUSG00 000038146	notch 3 Source MGI Symbol Acc MGI 99460
E08	UPFM093766 4	ENSMUST00000 104999.3	Nrarp	ENSMUSG00 000078202	Notch-regulated ankyrin repeat protein Source MGI Symbol Acc MGI 1914372
E09	UPFM072669 9	ENSMUST00000 111085.7	Pax6	ENSMUSG00 000027168	paired box 6 Source MGI Symbol Acc MGI 97490
E10	UPFM099774 1	ENSMUST00000 176791.1	Pbx1	ENSMUSG00 000052534	pre B cell leukemia homeobox 1 Source MGI Symbol Acc MGI 97495
E11	UPFM079129 6	ENSMUST00000 195034.1	Pcdh8	ENSMUSG00 000036422	protocadherin 8 Source MGI Symbol Acc MGI 1306800
E12	UPFM081589 7	ENSMUST00000 229795.1	Pdgfb	ENSMUSG00 000000489	platelet derived growth factor, B polypeptide Source MGI Symbol Acc MGI 97528
F01	UPFM073646 8	ENSMUST00000 202186.3	Pdgfra	ENSMUSG00 000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
F02	UPFM083084 0	ENSMUST00000 115274.1	Pdgfrb	ENSMUSG00 000024620	platelet derived growth factor receptor, beta polypeptide Source MGI Symbol Acc MGI 97531
F03	UPFM078570 3	ENSMUST00000 041012.8	Ptcra	ENSMUSG00 000036858	pre T cell antigen receptor alpha Source MGI Symbol Acc MGI 104857
F04	UPFM100449 2	ENSMUST00000 190784.1	Ptgs2	ENSMUSG00 000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F05	UPFM065182 0	ENSMUST00000 201928.3	Rbpj	ENSMUSG00 000039191	recombination signal binding protein for immunoglobulin kappa J region Source MGI Symbol Acc MGI 96522
F06	UPFM094258 5	ENSMUST00000 109356.1	Rbpjl	ENSMUSG00 000017007	recombination signal binding protein for immunoglobulin kappa J region-like Source MGI Symbol Acc MGI 1196616
F07	UPFM081085 5	ENSMUST00000 037360.7	Rhov	ENSMUSG00 000034226	ras homolog family member V Source MGI Symbol Acc MGI 2444227
F08	UPFM085155 5	ENSMUST00000 120997.1	Rnd1	ENSMUSG00 000054855	Rho family GTPase 1 Source MGI Symbol Acc MGI 2444878
F09	UPFM072805 9	ENSMUST00000 113956.9	Runx1	ENSMUSG00 000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
F10	UPFM067421 7	ENSMUST00000 113571.9	Runx2	ENSMUSG00 000039153	runt related transcription factor 2 Source MGI Symbol Acc MGI 99829

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM065157 4	ENSMUST00000 087978.4	S1pr3	ENSMUSG00 000067586	sphingosine-1-phosphate receptor 3 Source MGI Symbol Acc MGI 1339365
F12	UPFM100589 9	ENSMUST00000 126307.1	Sgpl1	ENSMUSG00 000020097	sphingosine phosphate lyase 1 Source MGI Symbol Acc MGI 1261415
G01	UPFM082086 9	ENSMUST00000 052631.7	Snai1	ENSMUSG00 000042821	snail family zinc finger 1 Source MGI Symbol Acc MGI 98330
G02	UPFM069282 4	ENSMUST00000 021428.8	Snw1	ENSMUSG00 000021039	SNW domain containing 1 Source MGI Symbol Acc MGI 1913604
G03	UPFM069413 9	ENSMUST00000 054002.3	Socs3	ENSMUSG00 000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G04	UPFM071167 5	ENSMUST00000 000579.2	Sox9	ENSMUSG00 000000567	SRY (sex determining region Y)-box 9 Source MGI Symbol Acc MGI 98371
G05	UPFM096958 4	ENSMUST00000 089112.5	Tcf15	ENSMUSG00 000068079	transcription factor 15 Source MGI Symbol Acc MGI 104664
G06	UPFM085422 8	ENSMUST00000 113594.7	Tec	ENSMUSG00 000029217	tec protein tyrosine kinase Source MGI Symbol Acc MGI 98662
G07	UPFM085039 7	ENSMUST00000 107371.1	Tnc	ENSMUSG00 000028364	tenascin C Source MGI Symbol Acc MGI 101922
G08	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G09	UPFM078330 9	ENSMUST00000 229246.1	Ccn4	ENSMUSG00 000005124	cellular communication network factor 4 Source MGI Symbol Acc MGI 1197008
G10	UPFM083063 7	ENSMUST00000 045747.4	Wnt4	ENSMUSG00 000036856	wingless-type MMTV integration site family, member 4 Source MGI Symbol Acc MGI 98957
G11	UPFM099069 5	ENSMUST00000 063465.11	Wnt5a	ENSMUSG00 000021994	wingless-type MMTV integration site family, member 5A Source MGI Symbol Acc MGI 98958
G12	UPFM095936 8	ENSMUST00000 189544.1	Wnt6	ENSMUSG00 000033227	wingless-type MMTV integration site family, member 6 Source MGI Symbol Acc MGI 98960
H01	UPFM113294 6	ENSMUST00000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM112660 9	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.

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