

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

Mouse Angiogenesis

Cat. no. 249955 UPMM-024ZR

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	Akt1	Ang	Angpt1	Angpt2	Anpep	Adgrb1	Ccl11	Ccl2	Cdh5	Col18a1	Col4a3	Csf3
B	Ccn2	Cxcl1	Cxcl2	Cxcl5	Edn1	Efnb1	Efnb2	Egf	Eng	Epos1	Ephb4	ErbB2
C	F2	F3	Fgf1	Fgf2	Fgf6	Fgfr3	Vegfa	Flt1	Fn1	Hgf	Hif1a	Ifng
D	Igf1	Il1b	Il6	Il6g	Il6b3	Jag1	Kdr	Cnmd	Lep	Mapk14	Mdk	Mmp14
E	Mmp19	Mmp2	Mmp9	Nos3	Nrp1	Nrp2	Pdgfra	Pecam1	Pgf	Plau	Plg	Plgs1
F	Plk2	S1pr1	Serpine1	Serpinf1	Smad5	Sphk1	Tbx1	Tek	Tgfa	Tgfb1	Tgfb2	Tgfb3
G	Tgfb1	Thbs1	Thbs2	Tie1	Timp1	Timp2	Tnf	Tnfrsf12	Tymp	Vegfa	Vegfb	Vegfc
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	UPFM082786 0	ENSMUST00000 139388.2	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A02	UPFM073489 2	ENSMUST00000 171688.8	Ang	ENSMUSG00 000072115	angiogenin, ribonuclease, RNase A family, 5 Source MGI Symbol Acc MGI 88022
A03	UPFM071478 8	ENSMUST00000 022921.6	Angpt1	ENSMUSG00 000022309	angiopoietin 1 Source MGI Symbol Acc MGI 108448
A04	UPFM074499 5	ENSMUST00000 170200.1	Angpt2	ENSMUSG00 000031465	angiopoietin 2 Source MGI Symbol Acc MGI 1202890
A05	UPFM100980 4	ENSMUST00000 049004.7	Anep	ENSMUSG00 000039062	alanyl (membrane) aminopeptidase Source MGI Symbol Acc MGI 5000466
A06	UPFM081704 4	ENSMUST00000 189353.6	Adgrb1	ENSMUSG00 000034730	adhesion G protein-coupled receptor B1 Source MGI Symbol Acc MGI 1933736
A07	UPFM093466 9	ENSMUST00000 000342.2	Ccl11	ENSMUSG00 000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
A08	UPFM094573 3	ENSMUST00000 124479.1	Ccl2	ENSMUSG00 000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
A09	UPFM084041 9	ENSMUST00000 034339.9	Cdh5	ENSMUSG00 000031871	cadherin 5 Source MGI Symbol Acc MGI 105057
A10	UPFM064280 3	ENSMUST00000 072755.11	Col18a1	ENSMUSG00 000001435	collagen, type XVIII, alpha 1 Source MGI Symbol Acc MGI 88451
A11	UPFM077676 4	ENSMUST00000 125563.7	Col4a3	ENSMUSG00 000079465	collagen, type IV, alpha 3 Source MGI Symbol Acc MGI 104688
A12	UPFM089304 3	ENSMUST00000 038886.2	Csf3	ENSMUSG00 000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
B01	UPFM087426 0	ENSMUST00000 176228.1	Ccn2	ENSMUSG00 000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
B02	UPFM097448 9	ENSMUST00000 031327.8	Cxcl1	ENSMUSG00 000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B03	UPFM067324 0	ENSMUST00000 200919.1	Cxcl2	ENSMUSG00 000058427	chemokine (C-X-C motif) ligand 2 Source MGI Symbol Acc MGI 1340094
B04	UPFM097509 7	ENSMUST00000 031318.5	Cxcl5	ENSMUSG00 000029371	chemokine (C-X-C motif) ligand 5 Source MGI Symbol Acc MGI 1096868
B05	UPFM063234 4	ENSMUST00000 021796.8	Edn1	ENSMUSG00 000021367	endothelin 1 Source MGI Symbol Acc MGI 95283
B06	UPFM091956 4	ENSMUST00000 118860.1	Efn1	ENSMUSG00 000027954	ephrin A1 Source MGI Symbol Acc MGI 103236
B07	UPFM083640 1	ENSMUST00000 152698.1	Efn2	ENSMUSG00 000001300	ephrin B2 Source MGI Symbol Acc MGI 105097
B08	UPFM092572 5	ENSMUST00000 199615.4	Egf	ENSMUSG00 000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
B09	UPFM062460 8	ENSMUST00000 009705.13	Eng	ENSMUSG00 000026814	endoglin Source MGI Symbol Acc MGI 95392
B10	UPFM087063 3	ENSMUST00000 234447.1	Epas1	ENSMUSG00 000024140	endothelial PAS domain protein 1 Source MGI Symbol Acc MGI 109169
B11	UPFM101123 0	ENSMUST00000 111054.1	Eph4	ENSMUSG00 000029710	Eph receptor B4 Source MGI Symbol Acc MGI 104757
B12	UPFM099508 8	ENSMUST00000 136032.1	Erb2	ENSMUSG00 000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
C01	UPFM101213 2	ENSMUST00000 028681.14	F2	ENSMUSG00 000027249	coagulation factor II Source MGI Symbol Acc MGI 88380
C02	UPFM098656 9	ENSMUST00000 029771.12	F3	ENSMUSG00 000028128	coagulation factor III Source MGI Symbol Acc MGI 88381
C03	UPFM088976 4	ENSMUST00000 139972.1	Fgf1	ENSMUSG00 000036585	fibroblast growth factor 1 Source MGI Symbol Acc MGI 95515
C04	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C05	UPFM097519 7	ENSMUST00000 000187.6	Fgf6	ENSMUSG00 000000183	fibroblast growth factor 6 Source MGI Symbol Acc MGI 95520
C06	UPFM098143 7	ENSMUST00000 202791.2	Fgfr3	ENSMUSG00 000054252	fibroblast growth factor receptor 3 Source MGI Symbol Acc MGI 95524
C07	UPFM097949 5	ENSMUST00000 033751.7	Vegfd	ENSMUSG00 000031380	vascular endothelial growth factor D Source MGI Symbol Acc MGI 108037
C08	UPFM071363 0	ENSMUST00000 110529.5	Fit1	ENSMUSG00 000029648	FMS-like tyrosine kinase 1 Source MGI Symbol Acc MGI 95558
C09	UPFM086511 0	ENSMUST00000 188894.6	Fn1	ENSMUSG00 000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C10	UPFM081302 0	ENSMUST00000 199900.1	Hgf	ENSMUSG00 000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
	UPFM090240	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	110461.7	Hif1a	000021109	hypoxia inducible factor 1, alpha subunit Source MGI Symbol Acc MGI 106918
C12	UPFM1172950	ENSMUST00000068592.4	lfng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D01	UPFM0929418	ENSMUST00000121161.7	lgf1	ENSMUSG0000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D02	UPFM0671281	ENSMUST00000155994.1	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D03	UPFM0729099	ENSMUST00000195978.4	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D04	UPFM0855247	ENSMUST00000028499.10	Itgav	ENSMUSG0000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
D05	UPFM0799616	ENSMUST00000127140.2	Itgb3	ENSMUSG0000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
D06	UPFM0833625	ENSMUST00000028735.7	Jag1	ENSMUSG0000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
D07	UPFM0781643	ENSMUST00000113516.1	Kdr	ENSMUSG0000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
D08	UPFM0649217	ENSMUST00000165835.7	Cnmd	ENSMUSG0000022025	chondromodulin Source MGI Symbol Acc MGI 1341171
D09	UPFM0686147	ENSMUST00000169505.1	Lep	ENSMUSG0000059201	leptin Source MGI Symbol Acc MGI 104663
D10	UPFM0746848	ENSMUST00000004990.13	Mapk14	ENSMUSG0000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
D11	UPFM0646398	ENSMUST00000069423.12	Mdk	ENSMUSG0000027239	midkine Source MGI Symbol Acc MGI 96949
D12	UPFM1010550	ENSMUST00000089688.5	Mmp14	ENSMUSG0000000957	matrix metalloproteinase 14 (membrane-inserted) Source MGI Symbol Acc MGI 101900
E01	UPFM0894556	ENSMUST00000219404.1	Mmp19	ENSMUSG0000025355	matrix metalloproteinase 19 Source MGI Symbol Acc MGI 1927899
E02	UPFM0737374	ENSMUST00000211567.1	Mmp2	ENSMUSG0000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E03	UPFM0799308	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E04	UPFM0673581	ENSMUST00000115090.5	Nos3	ENSMUSG0000028978	nitric oxide synthase 3, endothelial cell Source MGI Symbol Acc MGI 97362
E05	UPFM0727445	ENSMUST00000212746.1	Nrp1	ENSMUSG0000025810	neuropilin 1 Source MGI Symbol Acc MGI 106206
E06	UPFM0965342	ENSMUST00000063594.12	Nrp2	ENSMUSG0000025969	neuropilin 2 Source MGI Symbol Acc MGI 1100492
E07	UPFM0900470	ENSMUST00000110896.1	Pdgfra	ENSMUSG0000025856	platelet derived growth factor, alpha Source MGI Symbol Acc MGI 97527
E08	UPFM0950376	ENSMUST00000068021.8	Pecam1	ENSMUSG0000020717	platelet/endothelial cell adhesion molecule 1 Source MGI Symbol Acc MGI 97537
E09	UPFM0804578	ENSMUST00000222850.1	Pgf	ENSMUSG0000004791	placental growth factor Source MGI Symbol Acc MGI 105095
E10	UPFM0836616	ENSMUST00000224141.1	Plau	ENSMUSG0000021822	plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611
E11	UPFM0805374	ENSMUST00000232767.1	Plg	ENSMUSG0000059481	plasminogen Source MGI Symbol Acc MGI 97620
E12	UPFM0621849	ENSMUST00000149930.2	Ptgs1	ENSMUSG0000047250	prostaglandin-endoperoxide synthase 1 Source MGI Symbol Acc MGI 97797
F01	UPFM0856039	ENSMUST00000226466.1	Ptk2	ENSMUSG0000022607	PTK2 protein tyrosine kinase 2 Source MGI Symbol Acc MGI 95481
F02	UPFM0857718	ENSMUST00000055676.3	S1pr1	ENSMUSG0000045092	sphingosine-1-phosphate receptor 1 Source MGI Symbol Acc MGI 1096355
F03	UPFM0707886	ENSMUST00000041388.10	Serpine1	ENSMUSG0000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
F04	UPFM0721156	ENSMUST00000168902.7	Serpinf1	ENSMUSG0000000753	serine (or cysteine) peptidase inhibitor, clade F, member 1 Source MGI Symbol Acc MGI 108080
F05	UPFM0675736	ENSMUST00000109876.7	Smad5	ENSMUSG0000021540	SMAD family member 5 Source MGI Symbol Acc MGI 1328787
F06	UPFM0776793	ENSMUST00000063446.12	Sphk1	ENSMUSG0000061878	sphingosine kinase 1 Source MGI Symbol Acc MGI 1316649
F07	UPFM0883753	ENSMUST00000232335.1	Tbx1	ENSMUSG0000009097	T-box 1 Source MGI Symbol Acc MGI 98493
F08	UPFM0939367	ENSMUST00000131958.1	Tek	ENSMUSG0000006386	TEK receptor tyrosine kinase Source MGI Symbol Acc MGI 98664
F09	UPFM0834642	ENSMUST00000192058.3	Tgfa	ENSMUSG0000029999	transforming growth factor alpha Source MGI Symbol Acc MGI 98724
F10	UPFM0666880	ENSMUST00000171757.1	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM073116 6	ENSMUST00000 045288.13	Tgfb2	ENSMUSG00 000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
F12	UPFM086737 6	ENSMUST00000 003687.7	Tgfb3	ENSMUSG00 000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G01	UPFM064002 0	ENSMUST00000 044234.13	Tgfb1	ENSMUSG00 000007613	transforming growth factor, beta receptor I Source MGI Symbol Acc MGI 98728
G02	UPFM072927 9	ENSMUST00000 039559.8	Thbs1	ENSMUSG00 000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G03	UPFM064532 4	ENSMUST00000 170872.2	Thbs2	ENSMUSG00 000023885	thrombospondin 2 Source MGI Symbol Acc MGI 98738
G04	UPFM075305 4	ENSMUST00000 047421.5	Tie1	ENSMUSG00 000033191	tyrosine kinase with immunoglobulin-like and EGF-like domains 1 Source MGI Symbol Acc MGI 99906
G05	UPFM079676 3	ENSMUST00000 009530.4	Timp1	ENSMUSG00 000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G06	UPFM073508 3	ENSMUST00000 017610.9	Timp2	ENSMUSG00 000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G07	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	UPFM092715 4	ENSMUST00000 181810.7	Tnfsf12	ENSMUSG00 000097328	tumor necrosis factor (ligand) superfamily, member 12 Source MGI Symbol Acc MGI 1196259
G09	UPFM076217 8	ENSMUST00000 023285.4	Tymp	ENSMUSG00 000022615	thymidine phosphorylase Source MGI Symbol Acc MGI 1920212
G10	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G11	UPFM085761 6	ENSMUST00000 025914.6	Vegfb	ENSMUSG00 000024962	vascular endothelial growth factor B Source MGI Symbol Acc MGI 106199
G12	UPFM067669 6	ENSMUST00000 210831.1	Vegfc	ENSMUSG00 000031520	vascular endothelial growth factor C Source MGI Symbol Acc MGI 109124
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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