

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

Mouse Epithelial to Mesenchymal Transition (EMT)

Cat. no. 249955 UPMM-090ZR

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	Ahnak	Akt1	Bmp1	Bmp7	Cald1	Comk2n1	Cov2	Cdh1	Cdh2	Col1a2	Col3a1	Col5a2
B	Clnnb1	Dsc2	Dsp	Egfr	ErbB3	Esr1	F11r	Fgfbp1	Fn1	Foxc2	Fzd7	Gng11
C	Gsc	Gsk3b	Igf1p4	Il1rn	Ilk	Ilga5	Ilgav	Ilgb1	Jag1	Krt14	Krt19	Krt7
D	Mitf	Mmp2	Mmp3	Mmp9	Msn	Mst1r	Map1b	Nodal	Notch1	Nudt13	Ocln	Pdgfrb
E	Plek2	Desi1	Plk2	Ptp4a1	Rac1	Rgs2	Serpine1	Gemin2	Smad2	Snai1	Snai2	Snai3
F	Sox10	Sparc	Spp1	Stat3	Steap1	Tcf4	Tcf7l1	Ttp2	Tgfb1	Tgfb2	Tgfb3	Timp1
G	Tmeff1	Tmem132a	Tspan13	Twist1	Vcan	Vim	Vps13a	Wnt11	Wnt5a	Wnt5b	Zeb1	Zeb2
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	UPFM071562 5	ENSMUST00000092955.10	Ahnak	ENSMUSG0000069833	AHNAK nucleoprotein (desmoyokin) Source MGI Symbol Acc MGI 1316648
A02	UPFM082786 0	ENSMUST00000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A03	UPFM075622 5	ENSMUST00000227944.1	Bmp1	ENSMUSG0000022098	bone morphogenetic protein 1 Source MGI Symbol Acc MGI 88176
A04	UPFM093035 6	ENSMUST00000009143.7	Bmp7	ENSMUSG0000008999	bone morphogenetic protein 7 Source MGI Symbol Acc MGI 103302
A05	UPFM064924 9	ENSMUST00000115026.7	Cald1	ENSMUSG0000029761	caldesmon 1 Source MGI Symbol Acc MGI 88250
A06	UPFM074453 9	ENSMUST00000050918.3	Camk2n1	ENSMUSG0000046447	calcium/calmodulin-dependent protein kinase II inhibitor 1 Source MGI Symbol Acc MGI 1913509
A07	UPFM070600 8	ENSMUST00000000058.6	Cav2	ENSMUSG0000000058	caveolin 2 Source MGI Symbol Acc MGI 107571
A08	UPFM088317 7	ENSMUST00000136580.1	Cdh1	ENSMUSG0000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
A09	UPFM069274 2	ENSMUST00000025166.13	Cdh2	ENSMUSG0000024304	cadherin 2 Source MGI Symbol Acc MGI 88355
A10	UPFM081902 3	ENSMUST00000132029.1	Col1a2	ENSMUSG0000029661	collagen, type I, alpha 2 Source MGI Symbol Acc MGI 88468
A11	UPFM093889 4	ENSMUST00000087883.12	Col3a1	ENSMUSG0000026043	collagen, type III, alpha 1 Source MGI Symbol Acc MGI 88453
A12	UPFM069290 7	ENSMUST00000131535.1	Col5a2	ENSMUSG0000026042	collagen, type V, alpha 2 Source MGI Symbol Acc MGI 88458
B01	UPFM098586 3	ENSMUST00000154356.7	Ctnnb1	ENSMUSG0000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B02	UPFM085394 8	ENSMUST00000039247.10	Dsc2	ENSMUSG0000024331	desmocollin 2 Source MGI Symbol Acc MGI 103221
B03	UPFM092854 2	ENSMUST00000124830.2	Dsp	ENSMUSG0000054889	desmoplakin Source MGI Symbol Acc MGI 109611
B04	UPFM080878 1	ENSMUST00000125984.1	Egfr	ENSMUSG0000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
B05	UPFM086306 1	ENSMUST00000082059.6	ErbB3	ENSMUSG0000018166	erb-b2 receptor tyrosine kinase 3 Source MGI Symbol Acc MGI 95411
B06	UPFM083226 3	ENSMUST00000105590.7	Esr1	ENSMUSG0000019768	estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467
B07	UPFM088158 3	ENSMUST00000043839.4	F11r	ENSMUSG0000038235	F11 receptor Source MGI Symbol Acc MGI 1321398
B08	UPFM099630 6	ENSMUST00000061299.8	Fgfbp1	ENSMUSG0000048373	fibroblast growth factor binding protein 1 Source MGI Symbol Acc MGI 1096350
B09	UPFM086511 0	ENSMUST00000188894.6	Fn1	ENSMUSG0000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
B10	UPFM070963 5	ENSMUST00000054691.7	Foxc2	ENSMUSG0000046714	forkhead box C2 Source MGI Symbol Acc MGI 1347481
B11	UPFM068124 6	ENSMUST00000114246.3	Fzd7	ENSMUSG0000041075	frizzled class receptor 7 Source MGI Symbol Acc MGI 108570
B12	UPFM081473 3	ENSMUST00000031670.9	Gng11	ENSMUSG0000032766	guanine nucleotide binding protein (G protein), gamma 11 Source MGI Symbol Acc MGI 1913316
C01	UPFM093480 2	ENSMUST00000021513.5	Gsc	ENSMUSG0000021095	goosecoid homeobox Source MGI Symbol Acc MGI 95841
C02	UPFM098687 7	ENSMUST00000114750.1	Gsk3b	ENSMUSG0000022812	glycogen synthase kinase 3 beta Source MGI Symbol Acc MGI 1861437
C03	UPFM067796 0	ENSMUST00000177092.7	Igfbp4	ENSMUSG0000017493	insulin-like growth factor binding protein 4 Source MGI Symbol Acc MGI 96439
C04	UPFM079938 9	ENSMUST00000114485.8	Il1rn	ENSMUSG0000026981	interleukin 1 receptor antagonist Source MGI Symbol Acc MGI 96547
C05	UPFM073967 8	ENSMUST00000149695.7	Ilk	ENSMUSG0000030890	integrin linked kinase Source MGI Symbol Acc MGI 1195267
C06	UPFM078839 0	ENSMUST00000215331.1	Itga5	ENSMUSG0000000555	integrin alpha 5 (fibronectin receptor alpha) Source MGI Symbol Acc MGI 96604
C07	UPFM085524 7	ENSMUST00000028499.10	Itgav	ENSMUSG0000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
C08	UPFM093465 6	ENSMUST00000124826.1	Itgb1	ENSMUSG0000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
C09	UPFM083362 5	ENSMUST00000028735.7	Jag1	ENSMUSG0000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
C10	UPFM073270 5	ENSMUST00000007272.7	Krt14	ENSMUSG0000045545	keratin 14 Source MGI Symbol Acc MGI 96688
	UPFM100132	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	007317.7	Krt19	000020911	keratin 19 Source MGI Symbol Acc MGI 96693
C12	UPFM0919926	ENSMUST00000068904.8	Krt7	ENSMUSG0000023039	keratin 7 Source MGI Symbol Acc MGI 96704
D01	UPFM0832973	ENSMUST00000139462.1	Mitf	ENSMUSG00000035158	melanogenesis associated transcription factor Source MGI Symbol Acc MGI 104554
D02	UPFM0737374	ENSMUST00000211567.1	Mmp2	ENSMUSG00000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
D03	UPFM0791258	ENSMUST00000034497.7	Mmp3	ENSMUSG00000043613	matrix metalloproteinase 3 Source MGI Symbol Acc MGI 97010
D04	UPFM0799308	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
D05	UPFM0623078	ENSMUST00000149985.7	Msn	ENSMUSG00000031207	moesin Source MGI Symbol Acc MGI 97167
D06	UPFM0773885	ENSMUST00000195113.1	Mst1r	ENSMUSG00000032584	macrophage stimulating 1 receptor (c-met-related tyrosine kinase) Source MGI Symbol Acc MGI 99614
D07	UPFM0661096	ENSMUST00000224702.1	Map1b	ENSMUSG00000052727	microtubule-associated protein 1B Source MGI Symbol Acc MGI 1306778
D08	UPFM0799842	ENSMUST00000049339.6	Nodal	ENSMUSG00000037171	nodal Source MGI Symbol Acc MGI 97359
D09	UPFM0795987	ENSMUST00000126872.7	Notch1	ENSMUSG00000026923	notch 1 Source MGI Symbol Acc MGI 97363
D10	UPFM0866024	ENSMUST00000224066.1	Nudt13	ENSMUSG00000021809	nudix (nucleoside diphosphate linked moiety X)-type motif 13 Source MGI Symbol Acc MGI 1914975
D11	UPFM0874861	ENSMUST00000069756.10	Ocln	ENSMUSG00000021638	occludin Source MGI Symbol Acc MGI 106183
D12	UPFM0830840	ENSMUST00000115274.1	Pdgfrb	ENSMUSG00000024620	platelet derived growth factor receptor, beta polypeptide Source MGI Symbol Acc MGI 97531
E01	UPFM0701626	ENSMUST00000021544.7	Plek2	ENSMUSG00000021118	pleckstrin 2 Source MGI Symbol Acc MGI 1351466
E02	UPFM0934009	ENSMUST00000129039.7	Desi1	ENSMUSG00000022472	desumoylating isopeptidase 1 Source MGI Symbol Acc MGI 106313
E03	UPFM0856039	ENSMUST00000226466.1	Ptk2	ENSMUSG00000022607	PTK2 protein tyrosine kinase 2 Source MGI Symbol Acc MGI 95481
E04	UPFM0698632	ENSMUST00000076587.5	Ptp4a1	ENSMUSG0000117310	protein tyrosine phosphatase 4a1 Source NCBI gene Acc 19243
E05	UPFM0962419	ENSMUST00000131513.1	Rac1	ENSMUSG0000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845
E06	UPFM0806259	ENSMUST00000127206.7	Rgs2	ENSMUSG00000026360	regulator of G-protein signaling 2 Source MGI Symbol Acc MGI 1098271
E07	UPFM0707886	ENSMUST00000041388.10	Serpine1	ENSMUSG00000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
E08	UPFM0994144	ENSMUST00000182710.1	Gemin2	ENSMUSG00000060121	gem nuclear organelle associated protein 2 Source MGI Symbol Acc MGI 1913853
E09	UPFM0774433	ENSMUST00000172198.7	Smad2	ENSMUSG00000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
E10	UPFM0820869	ENSMUST00000052631.7	Snai1	ENSMUSG00000042821	snail family zinc finger 1 Source MGI Symbol Acc MGI 98330
E11	UPFM0726690	ENSMUST00000023356.7	Snai2	ENSMUSG00000022676	snail family zinc finger 2 Source MGI Symbol Acc MGI 1096393
E12	UPFM0821826	ENSMUST00000006762.6	Snai3	ENSMUSG00000006587	snail family zinc finger 3 Source MGI Symbol Acc MGI 1353563
F01	UPFM0626542	ENSMUST00000230532.1	Sox10	ENSMUSG00000033006	SRY (sex determining region Y)-box 10 Source MGI Symbol Acc MGI 98358
F02	UPFM0871316	ENSMUST00000214685.1	Sparc	ENSMUSG0000018593	secreted acidic cysteine rich glycoprotein Source MGI Symbol Acc MGI 98373
F03	UPFM0759249	ENSMUST00000112746.7	Spp1	ENSMUSG00000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
F04	UPFM0984845	ENSMUST00000092671.11	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
F05	UPFM0832049	ENSMUST00000015796.8	Steap1	ENSMUSG0000015652	six transmembrane epithelial antigen of the prostate 1 Source MGI Symbol Acc MGI 1917608
F06	UPFM0878814	ENSMUST00000201157.1	Tcf4	ENSMUSG00000053477	transcription factor 4 Source MGI Symbol Acc MGI 98506
F07	UPFM0630940	ENSMUST00000114053.8	Tcf7l1	ENSMUSG00000055799	transcription factor 7 like 1 (T cell specific, HMG box) Source MGI Symbol Acc MGI 1202876
F08	UPFM0774264	ENSMUST00000203257.1	Tfpi2	ENSMUSG00000029664	tissue factor pathway inhibitor 2 Source MGI Symbol Acc MGI 108543
F09	UPFM0666880	ENSMUST00000171757.1	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
F10	UPFM0731166	ENSMUST00000045288.13	Tgfb2	ENSMUSG00000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0867376	ENSMUST00000003687.7	Tgfb3	ENSMUSG0000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
F12	UPFM0796763	ENSMUST00000009530.4	Timp1	ENSMUSG0000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G01	UPFM0839262	ENSMUST00000030032.12	Tmeff1	ENSMUSG0000028347	transmembrane protein with EGF-like and two follistatin-like domains 1 Source MGI Symbol Acc MGI 1926810
G02	UPFM0795859	ENSMUST00000120524.1	Tmem132a	ENSMUSG0000024736	transmembrane protein 132A Source MGI Symbol Acc MGI 2147810
G03	UPFM0851169	ENSMUST00000020896.16	Tspan13	ENSMUSG0000020577	tetraspanin 13 Source MGI Symbol Acc MGI 1913359
G04	UPFM0897818	ENSMUST00000049089.6	Twist1	ENSMUSG0000035799	twist basic helix-loop-helix transcription factor 1 Source MGI Symbol Acc MGI 98872
G05	UPFM0926695	ENSMUST00000109544.8	Vcan	ENSMUSG0000021614	versican Source MGI Symbol Acc MGI 102889
G06	UPFM0997662	ENSMUST00000028062.7	Vim	ENSMUSG0000026728	vimentin Source MGI Symbol Acc MGI 98932
G07	UPFM0681147	ENSMUST000000224149.1	Vps13a	ENSMUSG0000046230	vacuolar protein sorting 13A Source MGI Symbol Acc MGI 2444304
G08	UPFM0746535	ENSMUST00000165240.1	Wnt11	ENSMUSG0000015957	wingless-type MMTV integration site family, member 11 Source MGI Symbol Acc MGI 101948
G09	UPFM0990695	ENSMUST00000063465.11	Wnt5a	ENSMUSG0000021994	wingless-type MMTV integration site family, member 5A Source MGI Symbol Acc MGI 98958
G10	UPFM0655255	ENSMUST00000117171.7	Wnt5b	ENSMUSG0000030170	wingless-type MMTV integration site family, member 5B Source MGI Symbol Acc MGI 98959
G11	UPFM0876894	ENSMUST00000162892.7	Zeb1	ENSMUSG0000024238	zinc finger E-box binding homeobox 1 Source MGI Symbol Acc MGI 1344313
G12	UPFM0902055	ENSMUST00000176438.8	Zeb2	ENSMUSG0000026872	zinc finger E-box binding homeobox 2 Source MGI Symbol Acc MGI 1344407
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	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.

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