QuantiNova® LNA® Probe PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Rat Angiogenic Growth Factors

Cat. no. 249955 UPRN-072ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Adamts1	Aggf1	Amot	Angpt1	Angpt2	Angptl1	Angptl3	Angptl4	AABR07058422.1	Btg1	Cd55	Cd59
B	Cga	Chga	Cited1	Col18a1	Col4a3	Crhr2	Csf3	Cxcl10	Cxcl2	Cxcl6	Cxcl9	Egfl7
C	Erap1	Erbb2	Ereg	Fgf1	Fgf2	Fn1	Foxm1	Foxo4	Fst	Glmn	Grn	Hey1
D	Hey2	Hgf	Hpse	Ifna5	Ifnb1	Ifng	Il12a	Il12b	Kdr	Lep	Rnh1	Mdk
E	Myocd	Ntrk2	Pdgfb	Pf4	Pgf	Plg	Ppbp	Prl	Prl7d1	Ptn	Ptprj	LOC108348175
F	Rasa1	Rhob	Rnase4	Runx1	Serpinc1	Serpine1	Serpinf1	Shh	Smo	Tdgf1	Tgfa	Tgfb1
G	Thbs1	Tie1	Timp1	Timp2	Timp3	Timp4	LOC103694380	Tnni2	Tnni3	Vegfa	Wars2	Wt1
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFR1105539	ENSRNOT00000002187.7	Adamts1	ENSRNOG00000001607	ADAM metallopeptidase with thrombospondin type 1 motif, 1 Source RGD Symbol Acc 621241
A02	UPFR1091402	ENSRNOT00000051653.5	Aggf1	ENSRNOG00000029304	angiogenic factor with G patch and FHA domains 1 Source RGD Symbol Acc 1310888
A03	UPFR1098123	ENSRNOT00000049482.4	Amot	ENSRNOG00000007345	angiomotin Source RGD Symbol Acc 1564027
A04	UPFR1072829	ENSRNOT00000007979.6	Angpt1	ENSRNOG00000005854	angiopoietin 1 Source RGD Symbol Acc 628896
A05	UPFR1036335	ENSRNOT00000022774.6	Angpt2	ENSRNOG00000016696	angiopoietin 2 Source RGD Symbol Acc 621861
A06	UPFR1039748	ENSRNOT00000079152.1	Angptl1	ENSRNOG00000004712	angiopoietin-like 1 Source RGD Symbol Acc 1598128
A07	UPFR1043616	ENSRNOT00000011486.6	Angptl3	ENSRNOG00000008638	angiopoietin-like 3 Source RGD Symbol Acc 1564505
A08	UPFR1032714	ENSRNOT00000010031.6	Angptl4	ENSRNOG00000007545	angiopoietin-like 4 Source RGD Symbol Acc 735058
A09	UPFR1031474	ENSRNOT00000076127.2	AABR07058422.1	ENSRNOG00000029450	
A10	UPFR1118162	ENSRNOT00000005910.4	Btg1	ENSRNOG00000004284	BTG anti-proliferation factor 1 Source RGD Symbol Acc 2224
A11	UPFR1055916	ENSRNOT00000005284.6	Cd55	ENSRNOG00000003927	CD55 molecule Source RGD Symbol Acc 620651
A12	UPFR1077772	ENSRNOT00000067085.3	Cd59	ENSRNOG00000042821	CD59 molecule Source RGD Symbol Acc 2311
B01	UPFR1075839	ENSRNOT00000012385.4	Cga	ENSRNOG00000009269	glycoprotein hormones, alpha polypeptide Source RGD Symbol Acc 620436
B02	UPFR1099988	ENSRNOT00000090857.1	Chga	ENSRNOG00000052549	chromogranin A Source RGD Symbol Acc 2338
B03	UPFR1068859	ENSRNOT00000077678.1	Cited1	ENSRNOG00000003189	Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1 Source RGD Symbol Acc 620781
B04	UPFR1110277	ENSRNOT00000045315.4	Col18a1	ENSRNOG00000001229	collagen type XVIII alpha 1 chain Source RGD Symbol Acc 70936
B05	UPFR1065434	ENSRNOT00000020669.5	Col4a3	ENSRNOG00000015365	collagen type IV alpha 3 chain Source RGD Symbol Acc 71085
B06	UPFR1060931	ENSRNOT00000033672.3	Crhr2	ENSRNOG00000011145	corticotropin releasing hormone receptor 2 Source RGD Symbol Acc 70547
B07	UPFR1037448	ENSRNOT00000011509.3	Csf3	ENSRNOG00000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B08	UPFR1049597	ENSRNOT00000003075.7	Cxcl10	ENSRNOG00000022256	C-X-C motif chemokine ligand 10 Source RGD Symbol Acc 620209
B09	UPFR1121790	ENSRNOT00000003745.6	Cxcl2	ENSRNOG00000002792	C-X-C motif chemokine ligand 2 Source RGD Symbol Acc 70069
B10	UPFR1109014	ENSRNOT00000003823.3	Cxcl6	ENSRNOG00000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
B11	UPFR1089821	ENSRNOT00000003082.7	Cxcl9	ENSRNOG00000022242	C-X-C motif chemokine ligand 9 Source RGD Symbol Acc 628798
B12	UPFR1045272	ENSRNOT00000026318.6	Egfl7	ENSRNOG00000019388	EGF-like-domain, multiple 7 Source RGD Symbol Acc 708507
C01	UPFR1059537	ENSRNOT00000080222.1	Erap1	ENSRNOG00000009997	endoplasmic reticulum aminopeptidase 1 Source RGD Symbol Acc 708542
C02	UPFR1024636	ENSRNOT00000009114.7	Erbb2	ENSRNOG00000006450	erb-b2 receptor tyrosine kinase 2 Source RGD Symbol Acc 2561
C03	UPFR1109356	ENSRNOT00000003716.3	Ereg	ENSRNOG00000002771	epiregulin Source RGD Symbol Acc 620299
C04	UPFR1031298	ENSRNOT00000018577.3	Fgf1	ENSRNOG00000013867	fibroblast growth factor 1 Source RGD Symbol Acc 2605
C05	UPFR1033121	ENSRNOT00000023388.5	Fgf2	ENSRNOG00000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
C06	UPFR1089380	ENSRNOT00000057585.4	Fn1	ENSRNOG00000014288	fibronectin 1 Source RGD Symbol Acc 2624
C07	UPFR1062968	ENSRNOT00000008003.5	Foxm1	ENSRNOG00000005936	forkhead box M1 Source RGD Symbol Acc 61807
C08	UPFR1059092	ENSRNOT00000048521.3	Foxo4	ENSRNOG00000033316	forkhead box O4 Source RGD Symbol Acc 1561201
C09	UPFR1120134	ENSRNOT00000015680.4	Fst	ENSRNOG00000011631	follistatin Source RGD Symbol Acc 2633
C10	UPFR1078119	ENSRNOT00000061583.3	Glmn	ENSRNOG00000002054	glomulin, FKBP associated protein Source RGD Symbol Acc 1588600
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1096719	028557.7	Grn	000021031	granulin precursor Source RGD Symbol Acc 61983
C12	UPFR1104855	ENSRNOT00000 015537.7	Hey1	ENSRNOG00 000011593	hes-related family bHLH transcription factor with YRPW motif 1 Source NCBI gene Acc 155437
D01	UPFR1069377	ENSRNOT00000 018718.6	Hey2	ENSRNOG00 000013364	hes-related family bHLH transcription factor with YRPW motif 2 Source RGD Symbol Acc 621405
D02	UPFR1076642	ENSRNOT00000 009763.5	Hgf	ENSRNOG00 000007027	hepatocyte growth factor Source RGD Symbol Acc 2794
D03	UPFR1015590	ENSRNOT00000 002983.7	Hpse	ENSRNOG00 000002188	heparanase Source RGD Symbol Acc 61969
D04	UPFR1014391	ENSRNOT00000 049705.1	Ifna5	ENSRNOG00 000031046	interferon, alpha 5 Source RGD Symbol Acc 1359312
D05	UPFR1098156	ENSRNOT00000 008224.2	Ifnb1	ENSRNOG00 000006268	interferon beta 1 Source RGD Symbol Acc 2865
D06	UPFR1084134	ENSRNOT00000 009919.2	Ifng	ENSRNOG00 000007468	interferon gamma Source RGD Symbol Acc 2866
D07	UPFR1065603	ENSRNOT00000 012831.3	Il12a	ENSRNOG00 000009468	interleukin 12A Source RGD Symbol Acc 620562
D08	UPFR1060283	ENSRNOT00000 005898.6	Il12b	ENSRNOG00 000004380	interleukin 12B Source RGD Symbol Acc 628704
D09	UPFR1041145	ENSRNOT00000 085089.1	Kdr	ENSRNOG00 000046829	kinase insert domain receptor Source RGD Symbol Acc 2965
D10	UPFR1089630	ENSRNOT00000 071926.1	Lep	ENSRNOG00 000045797	leptin Source RGD Symbol Acc 3000
D11	UPFR1035942	ENSRNOT00000 022241.5	Rnh1	ENSRNOG00 000016416	ribonuclease/angiogenin inhibitor 1 Source RGD Symbol Acc 621398
D12	UPFR1113183	ENSRNOT00000 033978.3	Mdk	ENSRNOG00 000017560	midkine Source RGD Symbol Acc 69073
E01	UPFR1083468	ENSRNOT00000 078675.1	Myocd	ENSRNOG00 000003669	myocardin Source RGD Symbol Acc 631347
E02	UPFR1075665	ENSRNOT00000 042145.2	Ntrk2	ENSRNOG00 000018839	neurotrophic receptor tyrosine kinase 2 Source RGD Symbol Acc 3213
E03	UPFR1088903	ENSRNOT00000 023196.5	Pdgfb	ENSRNOG00 000017197	platelet derived growth factor subunit B Source RGD Symbol Acc 3283
E04	UPFR1099077	ENSRNOT00000 033406.1	Pf4	ENSRNOG00 000028015	platelet factor 4 Source RGD Symbol Acc 3305
E05	UPFR1118244	ENSRNOT00000 007790.5	Pgf	ENSRNOG00 000005650	placental growth factor Source RGD Symbol Acc 619850
E06	UPFR1070729	ENSRNOT00000 023368.5	Plg	ENSRNOG00 000017223	plasminogen Source RGD Symbol Acc 619893
E07	UPFR1100499	ENSRNOT00000 003794.3	Ppbp	ENSRNOG00 000002829	pro-platelet basic protein Source RGD Symbol Acc 70548
E08	UPFR1015066	ENSRNOT00000 023412.4	Prl	ENSRNOG00 000017374	prolactin Source RGD Symbol Acc 3403
E09	UPFR1101491	ENSRNOT00000 022251.6	Prl7d1	ENSRNOG00 000016510	prolactin family 7, subfamily d, member 1 Source RGD Symbol Acc 621307
E10	UPFR1108673	ENSRNOT00000 016088.6	Ptn	ENSRNOG00 000011946	pleiotrophin Source RGD Symbol Acc 3444
E11	UPFR1061998	ENSRNOT00000 049832.5	Ptprj	ENSRNOG00 000034025	protein tyrosine phosphatase, receptor type, J Source RGD Symbol Acc 3454
E12	UPFR1113712	ENSRNOT00000 086441.1	LOC10834 8175	ENSRNOG00 000048297	protein quaking-like Source RGD Symbol Acc 11514364
F01	UPFR1085068	ENSRNOT00000 046251.2	Rasa1	ENSRNOG00 000029185	RAS p21 protein activator 1 Source RGD Symbol Acc 3537
F02	UPFR1064942	ENSRNOT00000 008008.3	Rhob	ENSRNOG00 000021403	ras homolog family member B Source RGD Symbol Acc 621309
F03	UPFR1065571	ENSRNOT00000 090272.1	Rnase4	ENSRNOG00 000025625	ribonuclease A family member 4 Source RGD Symbol Acc 61823
F04	UPFR1113082	ENSRNOT00000 002313.4	Runx1	ENSRNOG00 000001704	runt-related transcription factor 1 Source RGD Symbol Acc 2283
F05	UPFR1060373	ENSRNOT00000 046512.4	Serpinc1	ENSRNOG00 000002783	serpin family C member 1 Source RGD Symbol Acc 1307404
F06	UPFR1051798	ENSRNOT00000 001916.2	Serpine1	ENSRNOG00 000001414	serpin family E member 1 Source RGD Symbol Acc 3249
F07	UPFR1094992	ENSRNOT00000 004313.5	Serpinf1	ENSRNOG00 000003172	serpin family F member 1 Source RGD Symbol Acc 631369
F08	UPFR1066763	ENSRNOT00000 008497.2	Shh	ENSRNOG00 000006120	sonic hedgehog signaling molecule Source RGD Symbol Acc 3673
F09	UPFR1032074	ENSRNOT00000 080223.1	Smo	ENSRNOG00 000008332	smoothened, frizzled class receptor Source RGD Symbol Acc 3726
F10	UPFR1115000	ENSRNOT00000 040840.5	Tdgf1	ENSRNOG00 000037171	teratocarcinoma-derived growth factor 1 Source RGD Symbol Acc 1594185

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1060818	ENSRNOT00000057441.4	Tgfa	ENSRNOG00000016182	transforming growth factor alpha Source RGD Symbol Acc 3849
F12	UPFR1103881	ENSRNOT00000028051.4	Tgfb1	ENSRNOG00000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G01	UPFR1104745	ENSRNOT00000083351.1	Thbs1	ENSRNOG00000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G02	UPFR1020058	ENSRNOT00000093097.1	Tie1	ENSRNOG00000020173	tyrosine kinase with immunoglobulin-like and EGF-like domains 1 Source RGD Symbol Acc 621642
G03	UPFR1060230	ENSRNOT00000013745.7	Timp1	ENSRNOG00000010208	TIMP metallopeptidase inhibitor 1 Source RGD Symbol Acc 621675
G04	UPFR1066754	ENSRNOT00000004290.4	Timp2	ENSRNOG00000003148	TIMP metallopeptidase inhibitor 2 Source RGD Symbol Acc 61312
G05	UPFR1107259	ENSRNOT00000005746.5	Timp3	ENSRNOG00000004303	TIMP metallopeptidase inhibitor 3 Source RGD Symbol Acc 3865
G06	UPFR1069231	ENSRNOT00000010748.3	Timp4	ENSRNOG00000007955	TIMP metallopeptidase inhibitor 4 Source RGD Symbol Acc 69077
G07	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG00000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G08	UPFR1065784	ENSRNOT00000076140.2	Tnni2	ENSRNOG00000020276	troponin I2, fast skeletal type Source RGD Symbol Acc 62050
G09	UPFR1100364	ENSRNOT00000024640.5	Tnni3	ENSRNOG00000018250	troponin I3, cardiac type Source RGD Symbol Acc 62052
G10	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG00000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G11	UPFR1030939	ENSRNOT00000026458.6	Wars2	ENSRNOG00000019508	tryptophanyl tRNA synthetase 2 (mitochondrial) Source RGD Symbol Acc 1593417
G12	UPFR1027373	ENSRNOT00000067940.3	Wt1	ENSRNOG00000013074	Wilms tumor 1 Source RGD Symbol Acc 3974
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG00000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG00000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG00000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG00000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	UPFR1126610	UPL_RGDC	RGDC	UPL_RGDC	Rat 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 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 Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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