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

Rat Cardiovascular Disease

Cat. no. 249955 UPRN-174ZA

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	Ace	Actc1	Adra1a	Adra1b	Adra1d	Adrb1	Adrb2	Adrb3	Aebp1	Agtr1a	Anxa4	Ar
B	Atp2a2	Atp5f1a	C6	Ccl11	Ccl2	Ccnd1	Cdkn1b	Col11a1	Col1a1	Col3a1	Creb5	Crem
C	Cryab	Crym	Ccn2	Cxcl12	Dcn	Dmd	Dusp6	Enah	Epor	F2r	Fn1	Frzb
D	G0s2	Gja1	Hmgcl	Hmgcr	Hmgn2	AABR0702695 7.1	Maoa	Mapk1	Mapk8	Mmp13	Msi2	Myh10
E	Myh6	Ndufb5	Nebl	Nfia	Nkx2-5	Nppa	Nppb	Npr1	Npr2	Npr3	AABR0703175 6.1	Nr3c2
F	Pde3a	Pde3b	Pde5a	Pde7a	Postn	Ptn	Rarres1	Rassf1	Ren	Rtn4	S100a1	S100a8
G	LOC299282	Sfrp4	Slc12a1	Snca	Spock1	Stat1	Tcf4	Thbs2	Tnni3	Tnnt2	Ubb	Zyx
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	UPFR1115385	ENSRNOT00000010627.8	Ace	ENSRNOG00000062101	angiotensin I converting enzyme Source RGD Symbol Acc 2493
A02	UPFR1012946	ENSRNOT00000011773.4	Actc1	ENSRNOG00000008536	actin, alpha, cardiac muscle 1 Source RGD Symbol Acc 2026
A03	UPFR1015154	ENSRNOT00000012736.3	Adra1a	ENSRNOG00000009522	adrenoceptor alpha 1A Source RGD Symbol Acc 2055
A04	UPFR1109473	ENSRNOT00000087937.1	Adra1b	ENSRNOG00000060087	adrenoceptor alpha 1B Source RGD Symbol Acc 2054
A05	UPFR1071837	ENSRNOT00000028877.2	Adra1d	ENSRNOG00000021256	adrenoceptor alpha 1D Source RGD Symbol Acc 62064
A06	UPFR1119895	ENSRNOT00000022813.2	Adrb1	ENSRNOG00000017002	adrenoceptor beta 1 Source RGD Symbol Acc 2059
A07	UPFR1035973	ENSRNOT00000026098.3	Adrb2	ENSRNOG00000019217	adrenoceptor beta 2 Source RGD Symbol Acc 2060
A08	UPFR1067180	ENSRNOT00000016907.2	Adrb3	ENSRNOG00000012674	adrenoceptor beta 3 Source RGD Symbol Acc 2061
A09	UPFR1051635	ENSRNOT00000018846.6	Aebp1	ENSRNOG00000013720	AE binding protein 1 Source RGD Symbol Acc 1306922
A10	UPFR1021418	ENSRNOT00000038532.3	Agtr1a	ENSRNOG00000018346	angiotensin II receptor, type 1a Source RGD Symbol Acc 2070
A11	UPFR1043232	ENSRNOT00000024436.7	Anxa4	ENSRNOG00000018159	annexin A4 Source RGD Symbol Acc 621171
A12	UPFR1020040	ENSRNOT00000009129.7	Ar	ENSRNOG00000005639	androgen receptor Source RGD Symbol Acc 2147
B01	UPFR1117982	ENSRNOT00000001738.7	Atp2a2	ENSRNOG00000001285	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 Source RGD Symbol Acc 2174
B02	UPFR1028329	ENSRNOT00000022892.5	Atp5f1a	ENSRNOG00000017032	ATP synthase F1 subunit alpha Source RGD Symbol Acc 619993
B03	UPFR1092714	ENSRNOT00000033112.4	C6	ENSRNOG00000024115	complement C6 Source RGD Symbol Acc 2238
B04	UPFR1034165	ENSRNOT00000009756.5	Ccl11	ENSRNOG00000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
B05	UPFR1014050	ENSRNOT00000009448.3	Ccl2	ENSRNOG00000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
B06	UPFR1042457	ENSRNOT00000088588.1	Ccnd1	ENSRNOG00000020918	cyclin D1 Source RGD Symbol Acc 68384
B07	UPFR1069360	ENSRNOT00000049848.1	Cdkn1b	ENSRNOG00000007249	cyclin-dependent kinase inhibitor 1B Source RGD Symbol Acc 69062
B08	UPFR1113914	ENSRNOT00000068413.3	Col11a1	ENSRNOG00000023148	collagen type XI alpha 1 chain Source RGD Symbol Acc 2372
B09	UPFR1053469	ENSRNOT00000005311.6	Col1a1	ENSRNOG00000003897	collagen type I alpha 1 chain Source RGD Symbol Acc 61817
B10	UPFR1066020	ENSRNOT00000004956.4	Col3a1	ENSRNOG00000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
B11	UPFR1021776	ENSRNOT00000031365.5	Creb5	ENSRNOG00000008622	cAMP responsive element binding protein 5 Source RGD Symbol Acc 1566107
B12	UPFR1048690	ENSRNOT00000020204.6	Crem	ENSRNOG00000014900	cAMP responsive element modulator Source RGD Symbol Acc 2402
C01	UPFR1023967	ENSRNOT00000059127.3	Cryab	ENSRNOG00000010524	crystallin, alpha B Source RGD Symbol Acc 2414
C02	UPFR1047851	ENSRNOT00000088482.1	Crym	ENSRNOG00000061215	crystallin, mu Source RGD Symbol Acc 620943
C03	UPFR1047569	ENSRNOT00000089196.1	Ccn2	ENSRNOG00000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
C04	UPFR1044005	ENSRNOT00000066670.3	Cxcl12	ENSRNOG00000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
C05	UPFR1014708	ENSRNOT00000006070.6	Dcn	ENSRNOG00000004554	decorin Source RGD Symbol Acc 61895
C06	UPFR1051278	ENSRNOT00000035692.6	Dmd	ENSRNOG00000046366	dystrophin Source RGD Symbol Acc 2507
C07	UPFR1071958	ENSRNOT00000037844.3	Dusp6	ENSRNOG00000023896	dual specificity phosphatase 6 Source RGD Symbol Acc 70978
C08	UPFR1111780	ENSRNOT00000085188.1	Enah	ENSRNOG00000031934	ENAH, actin regulator Source RGD Symbol Acc 1307666
C09	UPFR1046879	ENSRNOT00000017369.4	Epor	ENSRNOG00000012619	erythropoietin receptor Source RGD Symbol Acc 2560
C10	UPFR1094290	ENSRNOT00000074626.2	F2r	ENSRNOG00000048043	coagulation factor II (thrombin) receptor Source RGD Symbol Acc 2586
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1089380	057585.4	Fn1	000014288	fibronectin 1 Source RGD Symbol Acc 2624
C12	UPFR1104445	ENSRNOT00000 010247.5	Frzb	ENSRNOG00 000007765	frizzled-related protein Source RGD Symbol Acc 1311315
D01	UPFR1100568	ENSRNOT00000 007879.4	G0s2	ENSRNOG00 000006019	G0/G1switch 2 Source RGD Symbol Acc 1311675
D02	UPFR1122020	ENSRNOT00000 001054.4	Gja1	ENSRNOG00 000000805	gap junction protein, alpha 1 Source RGD Symbol Acc 2690
D03	UPFR1097191	ENSRNOT00000 012853.6	Hmgcl	ENSRNOG00 000009422	3-hydroxy-3-methylglutaryl-CoA lyase Source RGD Symbol Acc 620554
D04	UPFR1042968	ENSRNOT00000 022055.4	Hmgcr	ENSRNOG00 000016122	3-hydroxy-3-methylglutaryl-CoA reductase Source RGD Symbol Acc 2803
D05	UPFR1110372	ENSRNOT00000 082953.1	Hmgn2	ENSRNOG00 000051615	hypothetical protein LOC100360316 Source RGD Symbol Acc 2322336
D06	UPFR1077722	ENSRNOT00000 034877.6	AABR0702 6957.1	ENSRNOG00 000019533	kelch-like family member 3 Source NCBI gene Acc 498697
D07	UPFR1111375	ENSRNOT00000 066674.2	Maoa	ENSRNOG00 000002848	monoamine oxidase A Source RGD Symbol Acc 61898
D08	UPFR1055882	ENSRNOT00000 002533.7	Mapk1	ENSRNOG00 000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
D09	UPFR1048766	ENSRNOT00000 065216.3	Mapk8	ENSRNOG00 000020155	mitogen-activated protein kinase 8 Source RGD Symbol Acc 621506
D10	UPFR1099162	ENSRNOT00000 011507.5	Mmp13	ENSRNOG00 000008478	matrix metallopeptidase 13 Source RGD Symbol Acc 620196
D11	UPFR1023711	ENSRNOT00000 003164.8	Msi2	ENSRNOG00 000025338	musashi RNA-binding protein 2 Source RGD Symbol Acc 1560397
D12	UPFR1070566	ENSRNOT00000 065895.1	Myh10	ENSRNOG00 000002886	myosin heavy chain 10 Source RGD Symbol Acc 71000
E01	UPFR1098648	ENSRNOT00000 023302.2	Myh6	ENSRNOG00 000025757	myosin heavy chain 6 Source RGD Symbol Acc 62029
E02	UPFR1048347	ENSRNOT00000 016051.5	Ndufb5	ENSRNOG00 000011949	NADH ubiquinone oxidoreductase subunit B5 Source RGD Symbol Acc 1305909
E03	UPFR1070830	ENSRNOT00000 068553.3	Nebl	ENSRNOG00 000049452	nebulette Source RGD Symbol Acc 1308315
E04	UPFR1031851	ENSRNOT00000 004017.7	Nfia	ENSRNOG00 000006966	nuclear factor I/A Source RGD Symbol Acc 3170
E05	UPFR1099681	ENSRNOT00000 028155.5	Nkx2-5	ENSRNOG00 000020747	NK2 homeobox 5 Source RGD Symbol Acc 620520
E06	UPFR1053739	ENSRNOT00000 011005.5	Nppa	ENSRNOG00 000008176	natriuretic peptide A Source RGD Symbol Acc 3193
E07	UPFR1100038	ENSRNOT00000 010779.5	Nppb	ENSRNOG00 000008141	natriuretic peptide B Source RGD Symbol Acc 3194
E08	UPFR1108667	ENSRNOT00000 020307.3	Npr1	ENSRNOG00 000014684	natriuretic peptide receptor 1 Source RGD Symbol Acc 3195
E09	UPFR1109017	ENSRNOT00000 021802.5	Npr2	ENSRNOG00 000015991	natriuretic peptide receptor 2 Source RGD Symbol Acc 620851
E10	UPFR1089408	ENSRNOT00000 025966.5	Npr3	ENSRNOG00 000019184	natriuretic peptide receptor 3 Source RGD Symbol Acc 3196
E11	UPFR1073381	ENSRNOT00000 044287.4	AABR0703 1756.1	ENSRNOG00 000014096	nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413
E12	UPFR1038825	ENSRNOT00000 052018.4	Nr3c2	ENSRNOG00 000034007	nuclear receptor subfamily 3, group C, member 2 Source RGD Symbol Acc 3094
F01	UPFR1055762	ENSRNOT00000 032843.1	Pde3a	ENSRNOG00 000025042	phosphodiesterase 3A Source RGD Symbol Acc 61942
F02	UPFR1040575	ENSRNOT00000 015498.4	Pde3b	ENSRNOG00 000011417	phosphodiesterase 3B Source RGD Symbol Acc 61943
F03	UPFR1039275	ENSRNOT00000 019638.4	Pde5a	ENSRNOG00 000014443	phosphodiesterase 5A Source RGD Symbol Acc 620995
F04	UPFR1075238	ENSRNOT00000 067725.2	Pde7a	ENSRNOG00 000013048	phosphodiesterase 7A Source RGD Symbol Acc 68391
F05	UPFR1075701	ENSRNOT00000 084527.1	Postn	ENSRNOG00 000012660	periostin Source RGD Symbol Acc 1305285
F06	UPFR1108673	ENSRNOT00000 016088.6	Ptn	ENSRNOG00 000011946	pleiotrophin Source RGD Symbol Acc 3444
F07	UPFR1058498	ENSRNOT00000 057504.2	Rarres1	ENSRNOG00 000037853	retinoic acid receptor responder 1 Source RGD Symbol Acc 1309509
F08	UPFR1115677	ENSRNOT00000 037375.6	Rassf1	ENSRNOG00 000021548	Ras association domain family member 1 Source RGD Symbol Acc 1359383
F09	UPFR1020923	ENSRNOT00000 003951.4	Ren	ENSRNOG00 000002937	renin Source RGD Symbol Acc 3554
F10	UPFR1058760	ENSRNOT00000 006443.7	Rtn4	ENSRNOG00 000004621	reticulon 4 Source RGD Symbol Acc 620989

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1013397	ENSRNOT00000017000.4	S100a1	ENSRNOG00000012410	S100 calcium binding protein A1 Source RGD Symbol Acc 3614
F12	UPFR1086842	ENSRNOT00000015473.3	S100a8	ENSRNOG00000011557	S100 calcium binding protein A8 Source RGD Symbol Acc 620265
G01	UPFR1038357	ENSRNOT00000082680.1	LOC299282	ENSRNOG00000010478	Serine protease inhibitor Source RGD Symbol Acc 3745
G02	UPFR1093667	ENSRNOT00000079368.1	Sfrp4	ENSRNOG00000054957	secreted frizzled-related protein 4 Source RGD Symbol Acc 621075
G03	UPFR1022838	ENSRNOT00000085647.1	Slc12a1	ENSRNOG00000005367	solute carrier family 12 member 1 Source RGD Symbol Acc 3685
G04	UPFR1068205	ENSRNOT00000039247.4	Snca	ENSRNOG00000008656	synuclein alpha Source RGD Symbol Acc 3729
G05	UPFR1088649	ENSRNOT00000061187.3	Spock1	ENSRNOG00000012747	sparc/osteonectin, cwcv and kazal like domains proteoglycan 1 Source RGD Symbol Acc 1311496
G06	UPFR1068760	ENSRNOT00000083514.1	Stat1	ENSRNOG00000014079	signal transducer and activator of transcription 4 Source RGD Symbol Acc 1305747
G07	UPFR1028213	ENSRNOT00000081797.1	Tcf4	ENSRNOG00000012405	transcription factor 4 Source RGD Symbol Acc 69271
G08	UPFR1102771	ENSRNOT00000014552.7	Thbs2	ENSRNOG00000010529	thrombospondin 2 Source RGD Symbol Acc 1310979
G09	UPFR1100364	ENSRNOT00000024640.5	Tnni3	ENSRNOG00000018250	troponin I3, cardiac type Source RGD Symbol Acc 62052
G10	UPFR1096197	ENSRNOT00000050284.4	Tnnt2	ENSRNOG00000033734	troponin T2, cardiac type Source RGD Symbol Acc 3882
G11	UPFR1051928	ENSRNOT00000066885.3	Ubb	ENSRNOG00000042271	ubiquitin B Source RGD Symbol Acc 621562
G12	UPFR1055727	ENSRNOT00000023537.5	Zyx	ENSRNOG00000017354	zyxin Source RGD Symbol Acc 620698
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.

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.