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

Rat Macular Degeneration

Cat. no. 249955 UPRN-171ZR

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	Abca1	Abca4	Ace	Alb	Anxa2	Anxa5	Apoe	C2	C3	C4a	C5	C9
B	Ccl11	Ccl2	Cfb	Cfh	Cfhr1	Cfi	Clu	Col14a1	Cp	Crp	Cryaa	Cryab
C	Crygd	Cst3	Ccn2	Ctsd	Cx3cr1	Cxcl12	Dicer1	Efemp1	Eln	Ercc6	Fancg	Faslg
D	Fbln5	Fn1	Gfap	Gstm1	Gstp1	Gstt1	Hif1a	Hmcn1	Hmox1	Hmox2	Htra1	Icam1
E	Igf1	Il6	Lep	Lipc	Lpl	Mmp2	Mmp9	Nos1	Nos3	Plg	Pon1	Rho
F	Rlbp1	Rpe65	Sag	Scarb1	Serpine1	Serpinf1	Serping1	Slc4a1	Sod2	Sparc	Stmn1	Tf
G	Tgfb1	Thy1	Timp1	Timp3	Tlr3	Tlr4	Tnmd	Vegfa	Vim	Vldlr	Vtn	Vwf
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	UPFR1019469	ENSRNOT00000024564.7	Abca1	ENSRNOG00000018126	ATP binding cassette subfamily A member 1 Source RGD Symbol Acc 631344
A02	UPFR1103382	ENSRNOT00000017878.6	Abca4	ENSRNOG00000012892	ATP binding cassette subfamily A member 4 Source RGD Symbol Acc 1309445
A03	UPFR1115385	ENSRNOT00000010627.8	Ace	ENSRNOG00000062101	angiotensin I converting enzyme Source RGD Symbol Acc 2493
A04	UPFR1068924	ENSRNOT00000003921.4	Alb	ENSRNOG00000002911	albumin Source RGD Symbol Acc 2085
A05	UPFR1119904	ENSRNOT00000038677.5	Anxa2	ENSRNOG00000010362	annexin A2 Source RGD Symbol Acc 621170
A06	UPFR1079810	ENSRNOT00000019554.6	Anxa5	ENSRNOG00000014453	annexin A5 Source RGD Symbol Acc 2120
A07	UPFR1073431	ENSRNOT00000091574.1	Apoe	ENSRNOG00000018454	apolipoprotein E Source RGD Symbol Acc 2138
A08	UPFR1032993	ENSRNOT00000060607.4	C2	ENSRNOG00000051235	complement C2 Source RGD Symbol Acc 2231
A09	UPFR1069924	ENSRNOT00000075494.1	C3	ENSRNOG00000046834	complement C3 Source RGD Symbol Acc 2232
A10	UPFR1033991	ENSRNOT00000072377.2	C4a	ENSRNOG00000047657	complement C4A Source RGD Symbol Acc 620005
A11	UPFR1034130	ENSRNOT00000025534.7	C5	ENSRNOG00000018899	complement C5 Source RGD Symbol Acc 2237
A12	UPFR1091063	ENSRNOT00000018545.5	C9	ENSRNOG00000013736	complement C9 Source RGD Symbol Acc 620319
B01	UPFR1034165	ENSRNOT00000009756.5	Ccl11	ENSRNOG00000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
B02	UPFR1014050	ENSRNOT00000009448.3	Ccl2	ENSRNOG00000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
B03	UPFR1097207	ENSRNOT00000075928.2	Cfb	ENSRNOG00000000419	complement factor B Source RGD Symbol Acc 2204
B04	UPFR1090866	ENSRNOT00000060111.4	Cfh	ENSRNOG00000030715	complement factor H Source RGD Symbol Acc 620428
B05	UPFR1052753	ENSRNOT00000079040.1	Cfhr1	ENSRNOG00000042901	complement factor H-related 1 Source RGD Symbol Acc 1310510
B06	UPFR1120112	ENSRNOT00000086245.1	Cfi	ENSRNOG00000053400	complement factor I Source RGD Symbol Acc 620429
B07	UPFR1050205	ENSRNOT00000091612.1	Clu	ENSRNOG00000016460	clusterin Source RGD Symbol Acc 3907
B08	UPFR1100234	ENSRNOT00000067649.3	Col14a1	ENSRNOG00000026415	collagen type XIV alpha 1 chain Source RGD Symbol Acc 1305806
B09	UPFR1067896	ENSRNOT00000016083.5	Cp	ENSRNOG00000011913	ceruloplasmin Source RGD Symbol Acc 2387
B10	UPFR1072132	ENSRNOT00000000058.6	Crp	ENSRNOG00000000053	C-reactive protein Source RGD Symbol Acc 2411
B11	UPFR1122088	ENSRNOT00000071248.2	Cryaa	ENSRNOG00000047175	crystallin, alpha A Source RGD Symbol Acc 2413
B12	UPFR1023967	ENSRNOT00000059127.3	Cryab	ENSRNOG00000010524	crystallin, alpha B Source RGD Symbol Acc 2414
C01	UPFR1070643	ENSRNOT00000050886.2	Crygd	ENSRNOG00000032219	crystallin, gamma D Source RGD Symbol Acc 2422
C02	UPFR1023508	ENSRNOT00000007175.6	Cst3	ENSRNOG00000005195	cystatin C Source RGD Symbol Acc 2432
C03	UPFR1047569	ENSRNOT00000089196.1	Ccn2	ENSRNOG00000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
C04	UPFR1024358	ENSRNOT00000027407.4	Ctsd	ENSRNOG00000020206	cathepsin D Source RGD Symbol Acc 621511
C05	UPFR1042789	ENSRNOT00000025019.2	Cx3cr1	ENSRNOG00000018509	C-X3-C motif chemokine receptor 1 Source RGD Symbol Acc 620137
C06	UPFR1044005	ENSRNOT00000066670.3	Cxcl12	ENSRNOG00000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
C07	UPFR1099023	ENSRNOT00000014405.7	Dicer1	ENSRNOG00000010711	dicer 1 ribonuclease III Source RGD Symbol Acc 1309381
C08	UPFR1051473	ENSRNOT00000004764.7	Efemp1	ENSRNOG00000003553	EGF containing fibulin extracellular matrix protein 1 Source RGD Symbol Acc 1308528
C09	UPFR1061445	ENSRNOT00000032780.7	Eln	ENSRNOG00000001469	elastin Source RGD Symbol Acc 67394
C10	UPFR1063323	ENSRNOT00000088529.1	Ercc6	ENSRNOG00000030017	ERCC excision repair 6, chromatin remodeling factor Source RGD Symbol Acc 1311509
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1109133	078082.1	Fancg	000057945	FA complementation group G Source RGD Symbol Acc 1587477
C12	UPFR1108356	ENSRNOT00000 003998.2	Faslg	ENSRNOG00 000002978	Fas ligand Source RGD Symbol Acc 3880
D01	UPFR1100355	ENSRNOT00000 084815.1	Fbln5	ENSRNOG00 000050539	fibulin 5 Source RGD Symbol Acc 2594
D02	UPFR1089380	ENSRNOT00000 057585.4	Fn1	ENSRNOG00 000014288	fibronectin 1 Source RGD Symbol Acc 2624
D03	UPFR1036658	ENSRNOT00000 034401.5	Gfap	ENSRNOG00 000002919	glial fibrillary acidic protein Source RGD Symbol Acc 2679
D04	UPFR1118427	ENSRNOT00000 047139.3	Gstm1	ENSRNOG00 000029726	glutathione S-transferase mu 1 Source RGD Symbol Acc 2755
D05	UPFR1075260	ENSRNOT00000 024601.4	Gstp1	ENSRNOG00 000018237	glutathione S-transferase pi 1 Source RGD Symbol Acc 2758
D06	UPFR1063663	ENSRNOT00000 001669.4	Gstt1	ENSRNOG00 000049771	glutathione S-transferase theta 1 Source RGD Symbol Acc 2765
D07	UPFR1061095	ENSRNOT00000 049725.3	Hif1a	ENSRNOG00 000008292	hypoxia inducible factor 1 subunit alpha Source RGD Symbol Acc 61928
D08	UPFR1120992	ENSRNOT00000 030971.7	Hmcn1	ENSRNOG00 000028627	hemicentin 1 Source RGD Symbol Acc 1564772
D09	UPFR1040868	ENSRNOT00000 019192.6	Hmox1	ENSRNOG00 000014117	heme oxygenase 1 Source RGD Symbol Acc 2806
D10	UPFR1064114	ENSRNOT00000 005031.5	Hmox2	ENSRNOG00 000003773	heme oxygenase 2 Source RGD Symbol Acc 67402
D11	UPFR1051559	ENSRNOT00000 027860.4	Htra1	ENSRNOG00 000020533	HtrA serine peptidase 1 Source RGD Symbol Acc 69235
D12	UPFR1031281	ENSRNOT00000 028066.5	Icam1	ENSRNOG00 000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
E01	UPFR1050099	ENSRNOT00000 038780.6	Igf1	ENSRNOG00 000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
E02	UPFR1098910	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
E03	UPFR1089630	ENSRNOT00000 071926.1	Lep	ENSRNOG00 000045797	leptin Source RGD Symbol Acc 3000
E04	UPFR1104373	ENSRNOT00000 091858.1	Lipc	ENSRNOG00 000060338	lipase C, hepatic type Source RGD Symbol Acc 3009
E05	UPFR1016556	ENSRNOT00000 016543.3	Lpl	ENSRNOG00 000012181	lipoprotein lipase Source RGD Symbol Acc 3017
E06	UPFR1080151	ENSRNOT00000 022679.6	Mmp2	ENSRNOG00 000016695	matrix metallopeptidase 2 Source RGD Symbol Acc 621316
E07	UPFR1032957	ENSRNOT00000 023965.3	Mmp9	ENSRNOG00 000017539	matrix metallopeptidase 9 Source RGD Symbol Acc 621320
E08	UPFR1080946	ENSRNOT00000 001493.8	Nos1	ENSRNOG00 000001130	nitric oxide synthase 1 Source RGD Symbol Acc 3184
E09	UPFR1032783	ENSRNOT00000 013058.4	Nos3	ENSRNOG00 000009348	nitric oxide synthase 3 Source RGD Symbol Acc 3186
E10	UPFR1070729	ENSRNOT00000 023368.5	Plg	ENSRNOG00 000017223	plasminogen Source RGD Symbol Acc 619893
E11	UPFR1114492	ENSRNOT00000 011823.6	Pon1	ENSRNOG00 000008902	paraoxonase 1 Source RGD Symbol Acc 620062
E12	UPFR1029425	ENSRNOT00000 064603.1	Rho	ENSRNOG00 000011144	rhodopsin Source RGD Symbol Acc 3573
F01	UPFR1112703	ENSRNOT00000 022962.6	Rlbp1	ENSRNOG00 000016897	retinaldehyde binding protein 1 Source RGD Symbol Acc 1309649
F02	UPFR1034478	ENSRNOT00000 078187.1	Rpe65	ENSRNOG00 000009582	RPE65, retinoid isomerohydrolase Source RGD Symbol Acc 621396
F03	UPFR1085784	ENSRNOT00000 085770.1	Sag	ENSRNOG00 000018185	S-antigen visual arrestin Source RGD Symbol Acc 3619
F04	UPFR1089083	ENSRNOT00000 001299.7	Scarb1	ENSRNOG00 000000981	scavenger receptor class B, member 1 Source RGD Symbol Acc 2302
F05	UPFR1051798	ENSRNOT00000 001916.2	Serpine1	ENSRNOG00 000001414	serpin family E member 1 Source RGD Symbol Acc 3249
F06	UPFR1094992	ENSRNOT00000 004313.5	Serpinf1	ENSRNOG00 000003172	serpin family F member 1 Source RGD Symbol Acc 631369
F07	UPFR1047021	ENSRNOT00000 009817.4	Serping1	ENSRNOG00 000007457	serpin family G member 1 Source RGD Symbol Acc 735225
F08	UPFR1117709	ENSRNOT00000 092102.1	Slc4a1	ENSRNOG00 000020951	solute carrier family 4 member 1 Source RGD Symbol Acc 3710
F09	UPFR1090502	ENSRNOT00000 025794.4	Sod2	ENSRNOG00 000019048	superoxide dismutase 2 Source RGD Symbol Acc 3732
F10	UPFR1099979	ENSRNOT00000 017486.7	Sparc	ENSRNOG00 000012840	secreted protein acidic and cysteine rich Source RGD Symbol Acc 3742

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1042874	ENSRNOT00000022574.5	Stmn1	ENSRNOG00000016810	stathmin 1 Source RGD Symbol Acc 2992
F12	UPFR1043922	ENSRNOT00000045628.5	Tf	ENSRNOG00000030625	transferrin Source RGD Symbol Acc 3845
G01	UPFR1103881	ENSRNOT00000028051.4	Tgfb1	ENSRNOG00000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G02	UPFR1024110	ENSRNOT00000008685.3	Thy1	ENSRNOG00000006604	Thy-1 cell surface antigen Source RGD Symbol Acc 3860
G03	UPFR1060230	ENSRNOT00000013745.7	Timp1	ENSRNOG00000010208	TIMP metallopeptidase inhibitor 1 Source RGD Symbol Acc 621675
G04	UPFR1107259	ENSRNOT00000005746.5	Timp3	ENSRNOG00000004303	TIMP metallopeptidase inhibitor 3 Source RGD Symbol Acc 3865
G05	UPFR1036867	ENSRNOT00000087986.1	Tlr3	ENSRNOG00000021726	toll-like receptor 3 Source RGD Symbol Acc 735171
G06	UPFR1020675	ENSRNOT00000014020.3	Tlr4	ENSRNOG00000010522	toll-like receptor 4 Source RGD Symbol Acc 3870
G07	UPFR1106960	ENSRNOT00000083229.1	Tnmd	ENSRNOG00000060970	tenomodulin Source RGD Symbol Acc 620938
G08	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG00000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G09	UPFR1091277	ENSRNOT00000024430.5	Vim	ENSRNOG00000018087	vimentin Source RGD Symbol Acc 621646
G10	UPFR1017568	ENSRNOT00000035814.3	Vldlr	ENSRNOG00000027491	very low density lipoprotein receptor Source RGD Symbol Acc 3963
G11	UPFR1105823	ENSRNOT00000039954.5	Vtn	ENSRNOG00000010031	vitronectin Source RGD Symbol Acc 3967
G12	UPFR1092436	ENSRNOT00000026643.7	Vwf	ENSRNOG00000019689	von Willebrand factor Source RGD Symbol Acc 621759
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.