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

Rat Obesity

Cat. no. 249955 UPRN-017ZR

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	Adcyap1	Adcyap1r1	Adipoq	Adipor1	Adipor2	Adra2b	Adrb1	Agrp	Apoa4	Atrn	Bdnf	Brs3
B	C3	Calca	Calcr	Cartpt	Cck	Cckar	Clps	Cnr1	Cntf	Cntfr	Crh	Crhr1
C	Drd1	Drd2	Gal	Galr1	Gcg	Gcgr	Gh1	Ghr	Ghrl	Ghsr	Glp1r	Grp
D	Grpr	Hcrt	Hcrtr1	Hrh1	Htr2c	Iapp	Il1a	Il1b	Il1r1	Il6	Il6r	Ins1
E	Ins2	Insr	Lep	Lepr	Mc3r	Mchr1	Nmb	Nmbr	Nmu	Nmur1	LOC100912228	Npy1r
F	AABR07031756.1	Ntrk1	Nts	Ntsr1	Oprk1	Oprm1	Pomc	Ppara	Pparg	Ppargc1a	Prlhr	Ptpn1
G	Pyy	Ramp3	Sigmar1	Sort1	Sst	Sstr1	Thrb	LOC103694380	Trh	Trhr	Ucn	Ucp1
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	UPFR1075106	ENSRNOT00000087405.1	Adcyap1	ENSRNOG00000049882	adenylate cyclase activating polypeptide 1 Source RGD Symbol Acc 2037
A02	UPFR1017260	ENSRNOT00000043851.3	Adcyap1r1	ENSRNOG00000012098	ADCYAP receptor type 1 Source RGD Symbol Acc 2038
A03	UPFR1094195	ENSRNOT00000089988.1	Adipoq	ENSRNOG00000001821	adiponectin, C1Q and collagen domain containing Source RGD Symbol Acc 628748
A04	UPFR1081829	ENSRNOT00000005551.4	Adipor1	ENSRNOG00000004143	adiponectin receptor 1 Source RGD Symbol Acc 1303151
A05	UPFR1078945	ENSRNOT00000010556.5	Adipor2	ENSRNOG00000007990	adiponectin receptor 2 Source RGD Symbol Acc 1307891
A06	UPFR1015575	ENSRNOT00000018584.6	Adra2b	ENSRNOG00000013887	adrenoceptor alpha 2B Source RGD Symbol Acc 2057
A07	UPFR1119895	ENSRNOT00000022813.2	Adrb1	ENSRNOG00000017002	adrenoceptor beta 1 Source RGD Symbol Acc 2059
A08	UPFR1100228	ENSRNOT00000059628.3	Agrp	ENSRNOG00000039001	agouti related neuropeptide Source RGD Symbol Acc 2068
A09	UPFR1032874	ENSRNOT00000080658.1	Apoa4	ENSRNOG00000055909	apolipoprotein A4 Source RGD Symbol Acc 2132
A10	UPFR1106243	ENSRNOT00000028847.4	Atrn	ENSRNOG00000021240	attractin Source RGD Symbol Acc 69063
A11	UPFR1014257	ENSRNOT00000078543.1	Bdnf	ENSRNOG00000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
A12	UPFR1035547	ENSRNOT00000001164.5	Brs3	ENSRNOG00000000873	bombesin receptor subtype 3 Source RGD Symbol Acc 628645
B01	UPFR1069924	ENSRNOT00000075494.1	C3	ENSRNOG00000046834	complement C3 Source RGD Symbol Acc 2232
B02	UPFR1035100	ENSRNOT00000055124.4	Calca	ENSRNOG00000011130	calcitonin-related polypeptide alpha Source RGD Symbol Acc 2254
B03	UPFR1111223	ENSRNOT00000013910.7	Calcr	ENSRNOG00000010053	calcitonin receptor Source RGD Symbol Acc 621001
B04	UPFR1072038	ENSRNOT00000023869.2	Cartpt	ENSRNOG00000017712	CART prepropeptide Source RGD Symbol Acc 2272
B05	UPFR1013266	ENSRNOT00000026159.3	Cck	ENSRNOG00000019321	cholecystokinin Source RGD Symbol Acc 2288
B06	UPFR1048914	ENSRNOT00000065366.2	Cckar	ENSRNOG00000043124	cholecystokinin A receptor Source RGD Symbol Acc 2289
B07	UPFR1020501	ENSRNOT00000000611.4	Clps	ENSRNOG00000000510	colipase Source RGD Symbol Acc 2363
B08	UPFR1028958	ENSRNOT00000010850.2	Cnr1	ENSRNOG00000008223	cannabinoid receptor 1 Source RGD Symbol Acc 2369
B09	UPFR1111031	ENSRNOT00000016690.2	Cntf	ENSRNOG00000012460	ciliary neurotrophic factor Source RGD Symbol Acc 2370
B10	UPFR1114371	ENSRNOT00000075777.2	Cntfr	ENSRNOG00000047307	ciliary neurotrophic factor receptor Source RGD Symbol Acc 1303100
B11	UPFR1106729	ENSRNOT00000016953.2	Crh	ENSRNOG00000012703	corticotropin releasing hormone Source RGD Symbol Acc 620505
B12	UPFR1064735	ENSRNOT00000006764.7	Crhr1	ENSRNOG00000004900	corticotropin releasing hormone receptor 1 Source RGD Symbol Acc 61276
C01	UPFR1098242	ENSRNOT00000030893.3	Drd1	ENSRNOG00000023688	dopamine receptor D1 Source RGD Symbol Acc 2518
C02	UPFR1040837	ENSRNOT00000045944.5	Drd2	ENSRNOG00000008428	dopamine receptor D2 Source RGD Symbol Acc 2520
C03	UPFR1084036	ENSRNOT00000020425.5	Gal	ENSRNOG00000015156	galanin and GMAP prepropeptide Source RGD Symbol Acc 61954
C04	UPFR1082561	ENSRNOT00000022401.2	Galr1	ENSRNOG00000016654	galanin receptor 1 Source RGD Symbol Acc 2656
C05	UPFR1017810	ENSRNOT00000007356.4	Gcg	ENSRNOG00000005498	glucagon Source RGD Symbol Acc 2668
C06	UPFR1083301	ENSRNOT00000083601.1	Gcgr	ENSRNOG00000036692	glucagon receptor Source RGD Symbol Acc 2669
C07	UPFR1081333	ENSRNOT00000015818.5	Gh1	ENSRNOG00000011207	growth hormone 1 Source RGD Symbol Acc 2686
C08	UPFR1025911	ENSRNOT00000046951.5	Ghr	ENSRNOG00000015654	growth hormone receptor Source RGD Symbol Acc 2687
C09	UPFR1097932	ENSRNOT00000014103.1	Ghrl	ENSRNOG00000010349	ghrelin and obestatin prepropeptide Source RGD Symbol Acc 632283
C10	UPFR1042505	ENSRNOT00000034960.1	Ghsr	ENSRNOG00000024119	growth hormone secretagogue receptor Source RGD Symbol Acc 621397
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1118128	079509.1	Glp1r	000001152	glucagon-like peptide 1 receptor Source RGD Symbol Acc 2703
C12	UPFR1109158	ENSRNOT00000 022845.2	Grp	ENSRNOG00 000016999	gastrin releasing peptide Source RGD Symbol Acc 621740
D01	UPFR1103979	ENSRNOT00000 005559.6	Grpr	ENSRNOG00 000004124	gastrin releasing peptide receptor Source RGD Symbol Acc 2750
D02	UPFR1070137	ENSRNOT00000 025547.3	Hcrt	ENSRNOG00 000018892	hypocretin neuropeptide precursor Source RGD Symbol Acc 2786
D03	UPFR1063961	ENSRNOT00000 018674.6	Hcrtr1	ENSRNOG00 000013838	hypocretin receptor 1 Source RGD Symbol Acc 2787
D04	UPFR1069507	ENSRNOT00000 009775.4	Hrh1	ENSRNOG00 000007420	histamine receptor H 1 Source RGD Symbol Acc 2830
D05	UPFR1051208	ENSRNOT00000 090922.1	Htr2c	ENSRNOG00 000030877	5-hydroxytryptamine receptor 2C Source RGD Symbol Acc 2848
D06	UPFR1114008	ENSRNOT00000 016614.4	Iapp	ENSRNOG00 000012417	islet amyloid polypeptide Source RGD Symbol Acc 2854
D07	UPFR1066959	ENSRNOT00000 080818.1	Il1a	ENSRNOG00 000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
D08	UPFR1121351	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D09	UPFR1025024	ENSRNOT00000 082146.1	Il1r1	ENSRNOG00 000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D10	UPFR1098910	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D11	UPFR1035332	ENSRNOT00000 028234.7	Il6r	ENSRNOG00 000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
D12	UPFR1070033	ENSRNOT00000 016052.5	Ins1	ENSRNOG00 000012052	insulin 1 Source RGD Symbol Acc 2915
E01	UPFR1114751	ENSRNOT00000 027656.3	Ins2	ENSRNOG00 000020405	insulin 2 Source RGD Symbol Acc 2916
E02	UPFR1014864	ENSRNOT00000 041155.3	Insr	ENSRNOG00 000029986	insulin receptor Source RGD Symbol Acc 2917
E03	UPFR1089630	ENSRNOT00000 071926.1	Lep	ENSRNOG00 000045797	leptin Source RGD Symbol Acc 3000
E04	UPFR1076079	ENSRNOT00000 050597.5	Lepr	ENSRNOG00 000023664	leptin receptor Source RGD Symbol Acc 3001
E05	UPFR1109534	ENSRNOT00000 005871.4	Mc3r	ENSRNOG00 000004451	melanocortin 3 receptor Source RGD Symbol Acc 3056
E06	UPFR1034829	ENSRNOT00000 025564.6	Mchr1	ENSRNOG00 000018895	melanin-concentrating hormone receptor 1 Source RGD Symbol Acc 619841
E07	UPFR1084164	ENSRNOT00000 014639.6	Nmb	ENSRNOG00 000011011	neuromedin B Source RGD Symbol Acc 1562710
E08	UPFR1109142	ENSRNOT00000 016215.6	Nmbr	ENSRNOG00 000012103	neuromedin B receptor Source MGI Symbol Acc MGI 1100525
E09	UPFR1106859	ENSRNOT00000 002941.4	Nmu	ENSRNOG00 000002164	neuromedin U Source RGD Symbol Acc 68388
E10	UPFR1026495	ENSRNOT00000 025024.5	Nmur1	ENSRNOG00 000018521	neuromedin U receptor 1 Source RGD Symbol Acc 619867
E11	UPFR1048595	ENSRNOT00000 013145.6	LOC10091 2228	ENSRNOG00 000009768	neuropeptide Y Source RGD Symbol Acc 3197
E12	UPFR1096761	ENSRNOT00000 018952.6	Npy1r	ENSRNOG00 000014149	neuropeptide Y receptor Y1 Source RGD Symbol Acc 3198
F01	UPFR1073381	ENSRNOT00000 044287.4	AABR0703 1756.1	ENSRNOG00 000014096	nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413
F02	UPFR1096767	ENSRNOT00000 018961.3	Ntrk1	ENSRNOG00 000013953	neurotrophic receptor tyrosine kinase 1 Source RGD Symbol Acc 620144
F03	UPFR1027765	ENSRNOT00000 005706.7	Nts	ENSRNOG00 000004179	neurotensin Source RGD Symbol Acc 621612
F04	UPFR1077609	ENSRNOT00000 082073.1	Ntsr1	ENSRNOG00 000028708	neurotensin receptor 1 Source RGD Symbol Acc 1306076
F05	UPFR1047533	ENSRNOT00000 010254.3	Oprk1	ENSRNOG00 000007647	opioid receptor, kappa 1 Source RGD Symbol Acc 69426
F06	UPFR1097686	ENSRNOT00000 092034.1	Oprm1	ENSRNOG00 000018191	opioid receptor, mu 1 Source RGD Symbol Acc 3234
F07	UPFR1027878	ENSRNOT00000 016976.7	Pomc	ENSRNOG00 000012686	proopiomelanocortin Source RGD Symbol Acc 3366
F08	UPFR1039308	ENSRNOT00000 030082.2	Ppara	ENSRNOG00 000021463	peroxisome proliferator activated receptor alpha Source RGD Symbol Acc 3369
F09	UPFR1091351	ENSRNOT00000 051858.5	Pparg	ENSRNOG00 000008839	peroxisome proliferator-activated receptor gamma Source RGD Symbol Acc 3371
F10	UPFR1107303	ENSRNOT00000 006071.5	Ppargc1a	ENSRNOG00 000004473	PPARG coactivator 1 alpha Source RGD Symbol Acc 620925

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1050306	ENSRNOT00000013170.4	Prlhr	ENSRNOG00000009922	prolactin releasing hormone receptor Source RGD Symbol Acc 71037
F12	UPFR1035305	ENSRNOT00000014309.4	Ptpn1	ENSRNOG00000010574	protein tyrosine phosphatase, non-receptor type 1 Source RGD Symbol Acc 61965
G01	UPFR1016759	ENSRNOT00000028323.6	Pyy	ENSRNOG00000020877	peptide YY (mapped) Source RGD Symbol Acc 1593289
G02	UPFR1102169	ENSRNOT00000086468.1	Ramp3	ENSRNOG00000053766	receptor activity modifying protein 3 Source RGD Symbol Acc 61873
G03	UPFR1089759	ENSRNOT00000019795.4	Sigmar1	ENSRNOG00000014604	sigma non-opioid intracellular receptor 1 Source RGD Symbol Acc 68364
G04	UPFR1030657	ENSRNOT00000049127.5	Sort1	ENSRNOG00000031814	sortilin 1 Source RGD Symbol Acc 619999
G05	UPFR1045769	ENSRNOT00000002519.3	Sst	ENSRNOG00000001837	somatostatin Source RGD Symbol Acc 3761
G06	UPFR1033849	ENSRNOT00000073970.2	Sstr1	ENSRNOG00000048145	somatostatin receptor 1 Source RGD Symbol Acc 3762
G07	UPFR1111429	ENSRNOT00000008989.5	Thrb	ENSRNOG00000006649	thyroid hormone receptor beta Source RGD Symbol Acc 3858
G08	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG00000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G09	UPFR1100098	ENSRNOT00000015944.5	Trh	ENSRNOG00000011824	thyrotropin releasing hormone Source RGD Symbol Acc 3903
G10	UPFR1070131	ENSRNOT00000006783.5	Trhr	ENSRNOG00000005048	thyrotropin releasing hormone receptor Source RGD Symbol Acc 3904
G11	UPFR1103154	ENSRNOT00000008037.2	Ucn	ENSRNOG00000006090	urocortin Source RGD Symbol Acc 3929
G12	UPFR1121701	ENSRNOT00000004900.4	Ucp1	ENSRNOG00000003580	uncoupling protein 1 Source RGD Symbol Acc 3931
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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