

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

Rat Cancer PathwayFinder®

Cat. no. 249955 UPRN-033ZR

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	Acly	Acs14	Adm	Angpt1	Angpt2	Apa1	Arnt	Atp5f1a	Atrx	Aurka	Bcl2l1	Birc3
B	Bmi1	Car9	Casp2	Casp7	Casp9	Ccl2	Ccnd2	Ccnd3	Cdc20	Cdh2	Cflar	Cox5a
C	Cpt2	Dab2	Dkc1	Dsp	E2f4	Epo	Ercc3	Ercc5	Ets2	Faslg	Fgf2	Fhl1
D	Foxc2	G6pd	Gadd45g	Gpd2	Gsc	Hmox1	Igf1bp3	Igf1bp5	Igf1bp7	Ing1	Kdr	Krt14
E	Pgk1	Lig4	Lpl	Map2k1	Map2k3	Mcm2	Mki67	Nol3	Ocln	Pik1	Pgf	Pinx1
F	Ppp1r15a	Serpinb2	Serpinf1	Sirt2	Skp2	Slc2a1	Snai1	Snai2	Snai3	Sod1	Sox10	Stmn1
G	Tbx2	Tek	Tep1	Tef2ip	Tinf2	Tnks	Pat1	Uqcrls1	Vegfc	Wee1	Xiap	Xrcc4
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	UPFR1108876	ENSRNOT00000043172.4	Acly	ENSRNOG0000016924	ATP citrate lyase Source RGD Symbol Acc 2018
A02	UPFR1082627	ENSRNOT00000026057.6	Acsl4	ENSRNOG0000019180	acyl-CoA synthetase long-chain family member 4 Source RGD Symbol Acc 69401
A03	UPFR1061154	ENSRNOT00000036718.1	Adm	ENSRNOG0000027030	adrenomedullin Source RGD Symbol Acc 2047
A04	UPFR1072829	ENSRNOT00000007979.6	Angpt1	ENSRNOG0000005854	angiopoietin 1 Source RGD Symbol Acc 628896
A05	UPFR1036335	ENSRNOT00000022774.6	Angpt2	ENSRNOG0000016696	angiopoietin 2 Source RGD Symbol Acc 621861
A06	UPFR1031240	ENSRNOT00000010869.6	Apaf1	ENSRNOG0000008022	apoptotic peptidase activating factor 1 Source RGD Symbol Acc 620575
A07	UPFR1041304	ENSRNOT00000044738.4	Arnt	ENSRNOG0000031174	aryl hydrocarbon receptor nuclear translocator Source RGD Symbol Acc 2153
A08	UPFR1028329	ENSRNOT00000022892.5	Atp5f1a	ENSRNOG0000017032	ATP synthase F1 subunit alpha Source RGD Symbol Acc 619993
A09	UPFR1051451	ENSRNOT000000091284.1	Atrx	ENSRNOG00000056703	ATRX, chromatin remodeler Source RGD Symbol Acc 619795
A10	UPFR1017973	ENSRNOT000000055102.4	Aurka	ENSRNOG0000004479	aurora kinase A Source RGD Symbol Acc 628895
A11	UPFR1027475	ENSRNOT00000022596.6	Bcl2l11	ENSRNOG0000016551	BCL2 like 11 Source RGD Symbol Acc 628774
A12	UPFR1015683	ENSRNOT00000007702.7	Birc3	ENSRNOG0000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
B01	UPFR1103597	ENSRNOT000000064257.2	Bmi1	ENSRNOG0000016585	BM1 proto-oncogene, polycomb ring finger Source RGD Symbol Acc 1307403
B02	UPFR1102120	ENSRNOT000000023060.5	Car9	ENSRNOG0000017073	carbonic anhydrase 9 Source RGD Symbol Acc 1306426
B03	UPFR1065838	ENSRNOT00000022543.5	Casp2	ENSRNOG0000016707	caspase 2 Source RGD Symbol Acc 69274
B04	UPFR1051332	ENSRNOT000000080511.1	Casp7	ENSRNOG00000056216	caspase 7 Source RGD Symbol Acc 620944
B05	UPFR1054782	ENSRNOT000000085378.1	Casp9	ENSRNOG0000012944	caspase 9 Source RGD Symbol Acc 61867
B06	UPFR1014050	ENSRNOT000000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
B07	UPFR1088052	ENSRNOT000000086440.1	Ccnd2	ENSRNOG00000057710	cyclin D2 Source RGD Symbol Acc 621083
B08	UPFR1115909	ENSRNOT000000074217.1	Ccnd3	ENSRNOG00000050258	cyclin D3 Source RGD Symbol Acc 2293
B09	UPFR1101685	ENSRNOT000000036151.4	Cdc20	ENSRNOG00000028415	cell division cycle 20 Source RGD Symbol Acc 620477
B10	UPFR1054833	ENSRNOT000000021170.6	Cdh2	ENSRNOG0000015602	cadherin 2 Source RGD Symbol Acc 69280
B11	UPFR1108095	ENSRNOT000000016730.5	Cflar	ENSRNOG0000012473	CASP8 and FADD-like apoptosis regulator Source RGD Symbol Acc 620847
B12	UPFR1109602	ENSRNOT000000025525.4	Cox5a	ENSRNOG0000018816	cytochrome c oxidase subunit 5A Source RGD Symbol Acc 620607
C01	UPFR1106957	ENSRNOT000000016954.3	Cpt2	ENSRNOG0000012443	carnitine palmitoyltransferase 2 Source RGD Symbol Acc 2398
C02	UPFR1019734	ENSRNOT000000018998.8	Ddb2	ENSRNOG0000014071	damage specific DNA binding protein 2 Source RGD Symbol Acc 1310164
C03	UPFR1035204	ENSRNOT000000089847.1	Dkc1	ENSRNOG00000055562	dyskerin pseudouridine synthase 1 Source RGD Symbol Acc 621780
C04	UPFR1093849	ENSRNOT000000018649.6	Dsp	ENSRNOG0000013928	desmoplakin Source RGD Symbol Acc 1305794
C05	UPFR1044911	ENSRNOT000000021145.7	E2f4	ENSRNOG0000015708	E2F transcription factor 4 Source RGD Symbol Acc 2322129
C06	UPFR1023629	ENSRNOT000000001914.4	Epo	ENSRNOG0000001412	erythropoietin Source RGD Symbol Acc 2559
C07	UPFR1108612	ENSRNOT000000018422.6	Ercc3	ENSRNOG0000013180	ERCC excision repair 3, TFIIH core complex helicase subunit Source RGD Symbol Acc 1307139
C08	UPFR1105795	ENSRNOT000000059349.4	Ercc5	ENSRNOG00000022812	ERCC excision repair 5, endonuclease Source RGD Symbol Acc 1586176
C09	UPFR1103791	ENSRNOT000000002247.6	Ets2	ENSRNOG0000001647	ETS proto-oncogene 2, transcription factor Source RGD Symbol Acc 1584977
C10	UPFR1108356	ENSRNOT000000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1033121	023388.5	Fgf2	000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
C12	UPFR1070633	ENSRNOT0000001248.3	Flt1	ENSRNOG0000000940	FMS-related tyrosine kinase 1 Source RGD Symbol Acc 2621
D01	UPFR1102350	ENSRNOT00000072369.1	Foxc2	ENSRNOG00000047446	forkhead box C2 Source RGD Symbol Acc 621703
D02	UPFR1120389	ENSRNOT00000080887.1	G6pd	ENSRNOG00000056728	glucose-6-phosphate dehydrogenase Source RGD Symbol Acc 2645
D03	UPFR1119739	ENSRNOT00000018252.7	Gadd45g	ENSRNOG00000013090	growth arrest and DNA-damage-inducible, gamma Source RGD Symbol Acc 1311796
D04	UPFR1065011	ENSRNOT00000088589.1	Gpd2	ENSRNOG00000033824	glycerol-3-phosphate dehydrogenase 2 Source RGD Symbol Acc 2726
D05	UPFR1038732	ENSRNOT00000014204.5	Gsc	ENSRNOG00000010605	goosecoid homeobox Source RGD Symbol Acc 631425
D06	UPFR1040868	ENSRNOT00000019192.6	Hmox1	ENSRNOG00000014117	heme oxygenase 1 Source RGD Symbol Acc 2806
D07	UPFR1013429	ENSRNOT00000088355.1	Igfbp3	ENSRNOG00000061910	insulin-like growth factor binding protein 3 Source RGD Symbol Acc 2874
D08	UPFR1090111	ENSRNOT00000079493.1	Igfbp5	ENSRNOG00000017206	insulin-like growth factor binding protein 5 Source RGD Symbol Acc 2876
D09	UPFR1107856	ENSRNOT00000002809.4	Igfbp7	ENSRNOG00000002050	insulin-like growth factor binding protein 7 Source RGD Symbol Acc 1306201
D10	UPFR1028569	ENSRNOT00000019454.7	Ing1	ENSRNOG00000014520	inhibitor of growth family, member 1 Source RGD Symbol Acc 1306330
D11	UPFR1041145	ENSRNOT00000085089.1	Kdr	ENSRNOG00000046829	kinase insert domain receptor Source RGD Symbol Acc 2965
D12	UPFR1102701	ENSRNOT00000005285.4	Krt14	ENSRNOG0000003899	keratin 14 Source RGD Symbol Acc 1307463
E01	UPFR1132956	ENSRNOT00000077604.1	Pgk1	ENSRNOG00000058249	phosphoglycerate kinase 1 Source RGD Symbol Acc 619878
E02	UPFR1084917	ENSRNOT00000019615.5	Lig4	ENSRNOG00000014605	DNA ligase 4 Source RGD Symbol Acc 1304639
E03	UPFR1016556	ENSRNOT00000016543.3	Lpl	ENSRNOG00000012181	lipoprotein lipase Source RGD Symbol Acc 3017
E04	UPFR1053192	ENSRNOT00000013933.6	Map2k1	ENSRNOG00000010176	mitogen activated protein kinase kinase 1 Source RGD Symbol Acc 70495
E05	UPFR1058261	ENSRNOT00000073792.2	Map2k3	ENSRNOG00000049132	mitogen activated protein kinase kinase 3 Source RGD Symbol Acc 1306620
E06	UPFR1049442	ENSRNOT00000022231.6	Mcm2	ENSRNOG00000016316	minichromosome maintenance complex component 2 Source RGD Symbol Acc 1305577
E07	UPFR1066912	ENSRNOT00000038176.5	Mki67	ENSRNOG00000028137	marker of proliferation Ki-67 Source RGD Symbol Acc 1305476
E08	UPFR1059501	ENSRNOT00000020908.5	Nol3	ENSRNOG00000015588	nucleolar protein 3 Source RGD Symbol Acc 708558
E09	UPFR1027887	ENSRNOT00000084667.1	Ocln	ENSRNOG00000018297	occludin Source RGD Symbol Acc 620089
E10	UPFR1094920	ENSRNOT00000001625.5	Pfkfb3	ENSRNOG0000001214	phosphofructokinase, liver type Source RGD Symbol Acc 3311
E11	UPFR1118244	ENSRNOT00000007790.5	Pgf	ENSRNOG00000005650	placental growth factor Source RGD Symbol Acc 619850
E12	UPFR1014948	ENSRNOT00000016027.5	Pinx1	ENSRNOG00000012012	PIN2/TERF1 interacting, telomerase inhibitor 1 Source RGD Symbol Acc 1566025
F01	UPFR1020390	ENSRNOT00000044788.4	Ppp1r15a	ENSRNOG00000020938	protein phosphatase 1, regulatory subunit 15A Source RGD Symbol Acc 621526
F02	UPFR1020681	ENSRNOT00000003409.5	Serpina2	ENSRNOG00000002460	serpin family B member 2 Source RGD Symbol Acc 621823
F03	UPFR1094992	ENSRNOT00000004313.5	Serpina1	ENSRNOG00000003172	serpin family F member 1 Source RGD Symbol Acc 631369
F04	UPFR1049217	ENSRNOT00000084839.1	Sirt2	ENSRNOG00000020102	sirtuin 2 Source RGD Symbol Acc 621481
F05	UPFR1041501	ENSRNOT00000089178.1	Skp2	ENSRNOG00000059059	S-phase kinase associated protein 2 Source RGD Symbol Acc 1562456
F06	UPFR1052096	ENSRNOT00000083700.1	Slc2a1	ENSRNOG00000007284	solute carrier family 2 member 1 Source RGD Symbol Acc 3704
F07	UPFR1119713	ENSRNOT00000077581.1	Snai1	ENSRNOG00000009594	snail family transcriptional repressor 1 Source RGD Symbol Acc 620758
F08	UPFR1014151	ENSRNOT00000073049.2	Snai2	ENSRNOG00000047699	snail family transcriptional repressor 2 Source RGD Symbol Acc 3722
F09	UPFR1061475	ENSRNOT00000018387.6	Snai3	ENSRNOG00000013586	snail family transcriptional repressor 3 Source RGD Symbol Acc 1309658
F10	UPFR1062096	ENSRNOT00000002885.6	Sod1	ENSRNOG00000002115	superoxide dismutase 1 Source RGD Symbol Acc 3731

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1096108	ENSRNOT00000015283.3	Sox10	ENSRNOG00000011305	SRY box 10 Source RGD Symbol Acc 3735
F12	UPFR1042874	ENSRNOT00000022574.5	Stmn1	ENSRNOG00000016810	stathmin 1 Source RGD Symbol Acc 2992
G01	UPFR1025058	ENSRNOT00000004698.7	Tbx2	ENSRNOG00000003517	T-box 2 Source RGD Symbol Acc 1311014
G02	UPFR1031924	ENSRNOT00000032248.3	Tek	ENSRNOG00000008587	TEK receptor tyrosine kinase Source RGD Symbol Acc 620980
G03	UPFR1079677	ENSRNOT00000088981.1	Tep1	ENSRNOG00000051706	telomerase associated protein 1 Source RGD Symbol Acc 3869
G04	UPFR1083683	ENSRNOT00000014660.6	Terf2ip	ENSRNOG00000010712	TERF2 interacting protein Source RGD Symbol Acc 1309684
G05	UPFR1103806	ENSRNOT00000027362.5	Tinf2	ENSRNOG00000020189	TERF1 interacting nuclear factor 2 Source RGD Symbol Acc 1359192
G06	UPFR1048206	ENSRNOT00000015813.6	Tnks	ENSRNOG00000011625	tankyrase Source RGD Symbol Acc 1308784
G07	UPFR1059977	ENSRNOT00000079130.1	Pot1	ENSRNOG00000019986	protection of telomeres 1 Source RGD Symbol Acc 1562696
G08	UPFR1112253	ENSRNOT00000024609.6	Uqcrrf1	ENSRNOG00000018281	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 Source RGD Symbol Acc 628838
G09	UPFR1108264	ENSRNOT00000015529.4	Vegfc	ENSRNOG00000011416	vascular endothelial growth factor C Source RGD Symbol Acc 619800
G10	UPFR1029258	ENSRNOT00000013362.5	Wee1	ENSRNOG00000010017	WEE1 G2 checkpoint kinase Source RGD Symbol Acc 1307895
G11	UPFR1049285	ENSRNOT00000009336.3	Xiap	ENSRNOG00000006967	X-linked inhibitor of apoptosis Source RGD Symbol Acc 620692
G12	UPFR1037605	ENSRNOT00000045850.2	Xrcc4	ENSRNOG00000029966	X-ray repair cross complementing 4 Source RGD Symbol Acc 1359573
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 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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