

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

Rat Apoptosis

Cat. no. 249955 UPRN-012ZA

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	LOC1009097 50	Aifm1	Akt1	Anxa5	Apaf1	Api5	Aven	Bad	Bag1	Bak1	Bax	Bcl10
B	Bcl2	Bcl2a1	Bcl2l1	Bcl2l11	Bcl2l2	Bid	Bik	Birc2	Birc3	Birc5	Bnip2	Bnip3
C	Bok	Card10	Casp1	Casp12	Casp14	Casp2	Casp3	Casp4	LOC1036899 77	Casp7	Casp8	Casp8ap2
D	Casp9	Cd40	Cd40lg	Cflar	Cidea	Cideb	Cycs	Dad1	Dapk1	Dffa	Dffb	Diablo
E	Fadd	Faim	Fas	Faslg	Gadd45a	Nod1	Il10	Lta	Litr	Mapk1	Mapk8ip1	Bfor
F	AC135826.1	Nfk1	Nol3	Polb	Prdx2	Ptfr	Pycard	Ripk2	Sphk2	LOC1036943 80	AABR0701832 3.1	Tnfrsf11b
G	Tnfrsf1a	Tnfrsf1b	Tnfrsf10	Tnfrsf12	Tp53	Tp53bp2	Tp63	Tp73	Trodd	Traf2	Traf3	Xiap
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	UPFR1117746	ENSRNOT00000042495.5	LOC100909750	ENSRNOG0000047356	tyrosine-protein kinase ABL1-like Source RGD Symbol Acc 6502032
A02	UPFR1034068	ENSRNOT00000084848.1	Aifm1	ENSRNOG0000006067	apoptosis inducing factor, mitochondria associated 1 Source RGD Symbol Acc 620817
A03	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A04	UPFR1079810	ENSRNOT00000019554.6	Anxa5	ENSRNOG0000014453	annexin A5 Source RGD Symbol Acc 2120
A05	UPFR1031240	ENSRNOT00000010869.6	Apaf1	ENSRNOG0000008022	apoptotic peptidase activating factor 1 Source RGD Symbol Acc 620575
A06	UPFR1067588	ENSRNOT00000013914.4	Api5	ENSRNOG0000009689	apoptosis inhibitor 5 Source RGD Symbol Acc 1309772
A07	UPFR1039874	ENSRNOT00000065752.1	Aven	ENSRNOG0000006419	apoptosis and caspase activation inhibitor Source RGD Symbol Acc 1309928
A08	UPFR1109796	ENSRNOT00000028712.5	Bad	ENSRNOG0000021147	BCL2-associated agonist of cell death Source RGD Symbol Acc 620103
A09	UPFR1065096	ENSRNOT00000011455.6	Bag1	ENSRNOG0000008277	Bcl2 associated athanogene 1 Source RGD Symbol Acc 1305203
A10	UPFR1013012	ENSRNOT00000000576.5	Bak1	ENSRNOG0000000485	BCL2-antagonist/killer 1 Source RGD Symbol Acc 621635
A11	UPFR1074536	ENSRNOT00000028328.5	Bax	ENSRNOG0000020876	BCL2 associated X, apoptosis regulator Source RGD Symbol Acc 2192
A12	UPFR1104210	ENSRNOT00000019911.6	Bcl10	ENSRNOG0000042389	BCL10, immune signaling adaptor Source RGD Symbol Acc 620544
B01	UPFR1082998	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
B02	UPFR1064713	ENSRNOT000000039850.3	Bcl2a1	ENSRNOG0000047606	BCL2-related protein A1 Source RGD Symbol Acc 620621
B03	UPFR1047186	ENSRNOT00000010762.7	Bcl2l1	ENSRNOG0000007946	Bcl2-like 1 Source RGD Symbol Acc 2200
B04	UPFR1027475	ENSRNOT00000022596.6	Bcl2l11	ENSRNOG0000016551	BCL2 like 11 Source RGD Symbol Acc 628774
B05	UPFR1074130	ENSRNOT00000020409.4	Bcl2l2	ENSRNOG0000015732	Bcl2-like 2 Source RGD Symbol Acc 620717
B06	UPFR1018136	ENSRNOT00000016776.2	Bid	ENSRNOG0000012439	BH3 interacting domain death agonist Source RGD Symbol Acc 620160
B07	UPFR1110229	ENSRNOT00000013977.2	Bik	ENSRNOG0000010359	BCL2-interacting killer Source RGD Symbol Acc 621547
B08	UPFR1050093	ENSRNOT00000014560.6	Birc2	ENSRNOG0000010602	baculoviral IAP repeat-containing 2 Source RGD Symbol Acc 620690
B09	UPFR1015683	ENSRNOT00000007702.7	Birc3	ENSRNOG0000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
B10	UPFR1053500	ENSRNOT00000072387.1	Birc5	ENSRNOG0000050819	baculoviral IAP repeat-containing 5 Source RGD Symbol Acc 70499
B11	UPFR1034204	ENSRNOT00000087382.1	Bnip2	ENSRNOG0000056024	BCL2 interacting protein 2 Source RGD Symbol Acc 1308944
B12	UPFR1105806	ENSRNOT00000023477.6	Bnip3	ENSRNOG0000017243	BCL2 interacting protein 3 Source RGD Symbol Acc 620800
C01	UPFR1036930	ENSRNOT00000024695.6	Bok	ENSRNOG0000018214	BCL2 family apoptosis regulator BOK Source RGD Symbol Acc 70984
C02	UPFR1118327	ENSRNOT00000077677.1	Card10	ENSRNOG0000008401	caspase recruitment domain family, member 10 Source RGD Symbol Acc 1304949
C03	UPFR1052168	ENSRNOT00000009993.6	Casp1	ENSRNOG0000007372	caspase 1 Source RGD Symbol Acc 2274
C04	UPFR1089128	ENSRNOT00000088553.1	Casp12	ENSRNOG0000033434	caspase 12 Source RGD Symbol Acc 621758
C05	UPFR1074857	ENSRNOT00000009643.3	Casp14	ENSRNOG0000007352	caspase 14 Source RGD Symbol Acc 1311781
C06	UPFR1065838	ENSRNOT00000022543.5	Casp2	ENSRNOG0000016707	caspase 2 Source RGD Symbol Acc 69274
C07	UPFR1091664	ENSRNOT00000014095.5	Casp3	ENSRNOG0000010475	caspase 3 Source RGD Symbol Acc 2275
C08	UPFR1023361	ENSRNOT00000061973.4	Casp4	ENSRNOG0000033697	caspase 4 Source RGD Symbol Acc 621757
C09	UPFR1056354	ENSRNOT00000078017.1	LOC103689977	ENSRNOG0000052613	caspase 6 Source RGD Symbol Acc 70967
C10	UPFR1051332	ENSRNOT00000080511.1	Casp7	ENSRNOG0000056216	caspase 7 Source RGD Symbol Acc 620944
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1030636	016613.4	Casp8	000012331	caspase 8 Source RGD Symbol Acc 620945
C12	UPFR1096660	ENSRNOT0000009228.6	Casp8ap2	ENSRNOG0000006487	caspase 8 associated protein 2 Source RGD Symbol Acc 1305771
D01	UPFR1054782	ENSRNOT00000085378.1	Casp9	ENSRNOG00000012944	caspase 9 Source RGD Symbol Acc 61867
D02	UPFR1023025	ENSRNOT00000055148.4	Cd40	ENSRNOG0000018488	CD40 molecule Source RGD Symbol Acc 619830
D03	UPFR1038741	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
D04	UPFR1108095	ENSRNOT00000016730.5	Cflar	ENSRNOG0000012473	CASP8 and FADD-like apoptosis regulator Source RGD Symbol Acc 620847
D05	UPFR1081048	ENSRNOT00000024968.7	Cidea	ENSRNOG0000018505	cell death-inducing DFFA-like effector a Source RGD Symbol Acc 1305106
D06	UPFR1033473	ENSRNOT00000027612.6	Cideb	ENSRNOG0000020377	cell death-inducing DFFA-like effector b Source RGD Symbol Acc 1310000
D07	UPFR1019082	ENSRNOT00000014058.7	Cycs	ENSRNOG0000010452	cytochrome c, somatic-like Source RGD Symbol Acc 2322845
D08	UPFR1016090	ENSRNOT00000012233.5	Dad1	ENSRNOG0000009090	defender against cell death 1 Source RGD Symbol Acc 621028
D09	UPFR1056311	ENSRNOT00000066950.2	Dapk1	ENSRNOG0000018198	death associated protein kinase 1 Source RGD Symbol Acc 1311629
D10	UPFR1092379	ENSRNOT00000089179.1	Dffa	ENSRNOG0000013603	DNA fragmentation factor subunit alpha Source RGD Symbol Acc 620334
D11	UPFR1053827	ENSRNOT00000032825.5	Dffb	ENSRNOG0000025030	DNA fragmentation factor subunit beta Source RGD Symbol Acc 620335
D12	UPFR1016351	ENSRNOT00000047861.4	Diablo	ENSRNOG0000029197	diablo, IAP-binding mitochondrial protein Source RGD Symbol Acc 1310885
E01	UPFR1101946	ENSRNOT00000075089.3	Fadd	ENSRNOG0000047035	Fas associated via death domain Source RGD Symbol Acc 628700
E02	UPFR1088619	ENSRNOT00000045821.3	Faim	ENSRNOG0000030463	Fas apoptotic inhibitory molecule Source RGD Symbol Acc 620572
E03	UPFR1075141	ENSRNOT00000025928.5	Fas	ENSRNOG0000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
E04	UPFR1108356	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
E05	UPFR1092990	ENSRNOT00000007698.6	Gadd45a	ENSRNOG0000005615	growth arrest and DNA-damage-inducible, alpha Source RGD Symbol Acc 2654
E06	UPFR1118740	ENSRNOT00000088085.1	Nod1	ENSRNOG0000010629	nucleotide-binding oligomerization domain containing 1 Source RGD Symbol Acc 1562269
E07	UPFR1113235	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
E08	UPFR1116910	ENSRNOT00000088936.1	Lta	ENSRNOG0000000838	lymphotoxin alpha Source RGD Symbol Acc 3020
E09	UPFR1014666	ENSRNOT00000026184.4	Ltbr	ENSRNOG0000019264	lymphotoxin beta receptor Source RGD Symbol Acc 1309448
E10	UPFR1055882	ENSRNOT00000002533.7	Mapk1	ENSRNOG0000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
E11	UPFR1081351	ENSRNOT00000079746.1	Mapk8ip1	ENSRNOG0000058478	mitogen-activated protein kinase 8 interacting protein 1 Source RGD Symbol Acc 70937
E12	UPFR1094102	ENSRNOT00000004217.8	Bfar	ENSRNOG0000003151	bifunctional apoptosis regulator Source RGD Symbol Acc 1304791
F01	UPFR1031972	ENSRNOT00000072926.3	AC135826.1	ENSRNOG00000033693	NLR family, apoptosis inhibitory protein 2 Source MGI Symbol Acc MGI 1298226
F02	UPFR1116688	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
F03	UPFR1059501	ENSRNOT00000020908.5	Nol3	ENSRNOG0000015588	nucleolar protein 3 Source RGD Symbol Acc 708558
F04	UPFR1041463	ENSRNOT00000026039.5	Polb	ENSRNOG0000019150	DNA polymerase beta Source RGD Symbol Acc 3363
F05	UPFR1094945	ENSRNOT00000004799.5	Prdx2	ENSRNOG0000003520	peroxiredoxin 2 Source RGD Symbol Acc 3838
F06	UPFR1062377	ENSRNOT00000084624.1	Prlr	ENSRNOG0000057557	prolactin receptor Source RGD Symbol Acc 3407
F07	UPFR1097767	ENSRNOT00000026699.4	Pycard	ENSRNOG0000019675	PYD and CARD domain containing Source RGD Symbol Acc 628637
F08	UPFR1074419	ENSRNOT00000012963.5	Ripk2	ENSRNOG0000009389	receptor-interacting serine-threonine kinase 2 Source RGD Symbol Acc 1309167
F09	UPFR1019068	ENSRNOT00000028549.5	Sphk2	ENSRNOG0000021032	sphingosine kinase 2 Source RGD Symbol Acc 1307757
F10	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1016844	ENSRNOT00000066128.4	AABR07018323.1	ENSRNOG00000038483	
F12	UPFR1015258	ENSRNOT00000011344.5	Tnfrsf11b	ENSRNOG00000008336	TNF receptor superfamily member 11B Source RGD Symbol Acc 619802
G01	UPFR1079067	ENSRNOT00000048529.4	Tnfrsf1a	ENSRNOG00000031312	TNF receptor superfamily member 1A Source RGD Symbol Acc 621237
G02	UPFR1064277	ENSRNOT00000022478.4	Tnfrsf1b	ENSRNOG0000016575	TNF receptor superfamily member 1B Source RGD Symbol Acc 621238
G03	UPFR1107113	ENSRNOT00000017758.5	Tnfsf10	ENSRNOG0000013269	TNF superfamily member 10 Source RGD Symbol Acc 628734
G04	UPFR1096999	ENSRNOT00000064401.2	Tnfsf12	ENSRNOG0000045670	TNF superfamily member 12 Source RGD Symbol Acc 1359620
G05	UPFR1095007	ENSRNOT00000085115.1	Tp53	ENSRNOG0000010756	tumor protein p53 Source RGD Symbol Acc 3889
G06	UPFR1067479	ENSRNOT00000004330.7	Tp53bp2	ENSRNOG0000003237	tumor protein p53 binding protein, 2 Source RGD Symbol Acc 1305461
G07	UPFR1051192	ENSRNOT00000002636.7	Tp63	ENSRNOG0000001924	tumor protein p63 Source RGD Symbol Acc 620863
G08	UPFR1104356	ENSRNOT00000055398.2	Tp73	ENSRNOG0000024707	tumor protein p73 Source RGD Symbol Acc 1307083
G09	UPFR1034627	ENSRNOT00000020405.6	Tradd	ENSRNOG0000015179	TNFRSF1A-associated via death domain Source RGD Symbol Acc 621313
G10	UPFR1056890	ENSRNOT00000008253.6	Traf2	ENSRNOG0000006238	Tnf receptor-associated factor 2 Source RGD Symbol Acc 1310457
G11	UPFR1120299	ENSRNOT00000077770.1	Traf3	ENSRNOG0000008145	Tnf receptor-associated factor 3 Source RGD Symbol Acc 1304633
G12	UPFR1049285	ENSRNOT00000009336.3	Xiap	ENSRNOG0000006967	X-linked inhibitor of apoptosis Source RGD Symbol Acc 620692
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	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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