

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

Human Alzheimer's Disease

Cat. no. 249955 UPHS-057ZA

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	A2M	ABCA1	ACHE	ADAM10	ADAM9	APBA1	APBA3	APBB1	APBB2	APH1A	APLP1	APLP2
B	APOA1	APOE	APP	BACE1	BACE2	BCHE	BDNF	CAPN1	CASP3	CASP4	CDK1	CDK5
C	CDKL1	CHAT	CLU	CTSB	CTSC	CTSD	CTSG	CTSL	EP300	ERN1	GAP43	GNAO1
D	GNAZ	GNB1	GNB2	GNB4	GNB5	GNG11	GNG3	GNG4	GNGT1	GNGT2	GSK3A	GSK3B
E	HSD17B10	IDE	IL1A	INS	INSR	LPL	LRP1	LRP6	LRP8	MAP2	MAPT	MPO
F	NAE1	NCSTN	NTRK1	NTRK2	PKP4	PLAT	PLAU	PLG	PRKCA	PRKCB	PRKCD	PRKCE
G	PRKCG	PRKCI	PRKCQ	PRKCZ	PSEN1	PSEN2	SERPINA3	SNCA	SNCB	UBQLN1	UQCRC1	UQCRC2
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0373870	ENST00000472360.1	A2M	ENSG00000175899	alpha-2-macroglobulin Source HGNC Symbol Acc HGNC 7
A02	UPFH0384523	ENST00000423487.6	ABCA1	ENSG00000165029	ATP binding cassette subfamily A member 1 Source HGNC Symbol Acc HGNC 29
A03	UPFH0057935	ENST00000419336.6	ACHE	ENSG00000087085	acetylcholinesterase (Cartwright blood group) Source HGNC Symbol Acc HGNC 108
A04	UPFH0535211	ENST00000481164.1	ADAM10	ENSG00000137845	ADAM metalloproteinase domain 10 Source HGNC Symbol Acc HGNC 188
A05	UPFH0139334	ENST00000379917.7	ADAM9	ENSG00000168615	ADAM metalloproteinase domain 9 Source HGNC Symbol Acc HGNC 216
A06	UPFH0089257	ENST00000470082.2	APBA1	ENSG00000107282	amyloid beta precursor protein binding family A member 1 Source HGNC Symbol Acc HGNC 578
A07	UPFH0480610	ENST00000590238.1	APBA3	ENSG00000011132	amyloid beta precursor protein binding family A member 3 Source HGNC Symbol Acc HGNC 580
A08	UPFH0423011	ENST00000608394.5	APBB1	ENSG00000166313	amyloid beta precursor protein binding family B member 1 Source HGNC Symbol Acc HGNC 581
A09	UPFH0014321	ENST00000504305.5	APBB2	ENSG00000163697	amyloid beta precursor protein binding family B member 2 Source HGNC Symbol Acc HGNC 582
A10	UPFH0384193	ENST00000461320.5	APH1A	ENSG00000117362	aph-1 homolog A, gamma-secretase subunit Source HGNC Symbol Acc HGNC 29509
A11	UPFH0332274	ENST00000221891.8	APLP1	ENSG00000105290	amyloid beta precursor like protein 1 Source HGNC Symbol Acc HGNC 597
A12	UPFH0197053	ENST00000650012.1	APLP2	ENSG00000084234	amyloid beta precursor like protein 2 Source HGNC Symbol Acc HGNC 598
B01	UPFH0042718	ENST00000375329.6	APOA1	ENSG00000118137	apolipoprotein A1 Source HGNC Symbol Acc HGNC 600
B02	UPFH0539669	ENST00000425718.1	APOE	ENSG00000130203	apolipoprotein E Source HGNC Symbol Acc HGNC 613
B03	UPFH1132238	ENST00000346798.8	APP	ENSG00000142192	amyloid beta precursor protein Source HGNC Symbol Acc HGNC 620
B04	UPFH0172598	ENST00000513780.5	BACE1	ENSG00000186318	beta-secretase 1 Source HGNC Symbol Acc HGNC 933
B05	UPFH0100877	ENST00000463674.5	BACE2	ENSG00000182240	beta-secretase 2 Source HGNC Symbol Acc HGNC 934
B06	UPFH0332758	ENST00000479451.5	BCHE	ENSG00000114200	butyrylcholinesterase Source HGNC Symbol Acc HGNC 983
B07	UPFH0520944	ENST00000525528.1	BDNF	ENSG00000176697	brain derived neurotrophic factor Source HGNC Symbol Acc HGNC 1033
B08	UPFH0597247	ENST00000527323.5	CAPN1	ENSG00000014216	calpain 1 Source HGNC Symbol Acc HGNC 1476
B09	UPFH1132892	ENST00000523916.5	CASP3	ENSG00000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
B10	UPFH1132284	ENST00000444739.7	CASP4	ENSG00000196954	caspase 4 Source HGNC Symbol Acc HGNC 1505
B11	UPFH1132307	ENST00000614696.4	CDK1	ENSG00000170312	cyclin dependent kinase 1 Source HGNC Symbol Acc HGNC 1722
B12	UPFH0609948	ENST00000485972.6	CDK5	ENSG00000164885	cyclin dependent kinase 5 Source HGNC Symbol Acc HGNC 1774
C01	UPFH0316382	ENST00000216378.2	CDKL1	ENSG00000100490	cyclin dependent kinase like 1 Source HGNC Symbol Acc HGNC 1781
C02	UPFH0033940	ENST00000466590.6	CHAT	ENSG00000070748	choline O-acetyltransferase Source HGNC Symbol Acc HGNC 1912
C03	UPFH0432344	ENST00000519472.5	CLU	ENSG00000120885	clusterin Source HGNC Symbol Acc HGNC 2095
C04	UPFH1132795	ENST00000345125.7	CTSB	ENSG00000164733	cathepsin B Source HGNC Symbol Acc HGNC 2527
C05	UPFH0602934	ENST00000227266.10	CTSC	ENSG00000109861	cathepsin C Source HGNC Symbol Acc HGNC 2528
C06	UPFH1132343	ENST00000637815.1	CTSD	ENSG00000117984	cathepsin D Source HGNC Symbol Acc HGNC 2529
C07	UPFH0348615	ENST00000216336.3	CTSG	ENSG00000100448	cathepsin G Source HGNC Symbol Acc HGNC 2532
C08	UPFH1132904	ENST00000342020.5	CTSL	ENSG00000135047	cathepsin L Source HGNC Symbol Acc HGNC 2537
C09	UPFH0118049	ENST00000635691.1	EP300	ENSG00000100393	E1A binding protein p300 Source HGNC Symbol Acc HGNC 3373
C10	UPFH0041062	ENST00000584041.1	ERN1	ENSG00000178607	endoplasmic reticulum to nucleus signaling 1 Source HGNC Symbol Acc HGNC 3449
		ENST00000393		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0000740	780.3	GAP43	172020	growth associated protein 43 Source HGNC Symbol Acc HGNC 4140
C12	UPFH0306302	ENST00000640560.1	GNAO1	ENSG00000087258	G protein subunit alpha o1 Source HGNC Symbol Acc HGNC 4389
D01	UPFH0533623	ENST00000615612.2	GNAZ	ENSG00000128266	G protein subunit alpha z Source HGNC Symbol Acc HGNC 4395
D02	UPFH0039648	ENST00000434686.6	GNB1	ENSG00000078369	G protein subunit beta 1 Source HGNC Symbol Acc HGNC 4396
D03	UPFH0109949	ENST00000469287.5	GNB2	ENSG00000172354	G protein subunit beta 2 Source HGNC Symbol Acc HGNC 4398
D04	UPFH0169519	ENST00000468623.5	GNB4	ENSG00000114450	G protein subunit beta 4 Source HGNC Symbol Acc HGNC 20731
D05	UPFH0408724	ENST00000560116.1	GNB5	ENSG00000069966	G protein subunit beta 5 Source HGNC Symbol Acc HGNC 4401
D06	UPFH0327279	ENST00000248564.5	GNG11	ENSG00000127920	G protein subunit gamma 11 Source HGNC Symbol Acc HGNC 4403
D07	UPFH0325747	ENST00000294117.6	GNG3	ENSG00000162188	G protein subunit gamma 3 Source HGNC Symbol Acc HGNC 4405
D08	UPFH0083458	ENST00000484517.2	GNG4	ENSG00000168243	G protein subunit gamma 4 Source HGNC Symbol Acc HGNC 4407
D09	UPFH0247879	ENST00000430875.1	GNGT1	ENSG00000127928	G protein subunit gamma transducin 1 Source HGNC Symbol Acc HGNC 4411
D10	UPFH0181708	ENST00000515635.5	GNGT2	ENSG00000167083	G protein subunit gamma transducin 2 Source HGNC Symbol Acc HGNC 4412
D11	UPFH1132428	ENST00000398249.8	GSK3A	ENSG00000105723	glycogen synthase kinase 3 alpha Source HGNC Symbol Acc HGNC 4616
D12	UPFH0470775	ENST00000316626.5	GSK3B	ENSG00000082701	glycogen synthase kinase 3 beta Source HGNC Symbol Acc HGNC 4617
E01	UPFH0332969	ENST00000375298.4	HSD17B10	ENSG00000072506	hydroxysteroid 17-beta dehydrogenase 10 Source HGNC Symbol Acc HGNC 4800
E02	UPFH0465385	ENST00000650060.1	IDE	ENSG00000119912	insulin degrading enzyme Source HGNC Symbol Acc HGNC 5381
E03	UPFH0436255	ENST00000263339.3	IL1A	ENSG00000115008	interleukin 1 alpha Source HGNC Symbol Acc HGNC 5991
E04	UPFH1132488	ENST00000381330.4	INS	ENSG00000254647	insulin Source HGNC Symbol Acc HGNC 6081
E05	UPFH0483358	ENST00000598216.1	INSR	ENSG00000171105	insulin receptor Source HGNC Symbol Acc HGNC 6091
E06	UPFH1132523	ENST00000311322.10	LPL	ENSG00000175445	lipoprotein lipase Source HGNC Symbol Acc HGNC 6677
E07	UPFH1125057	ENST00000338962.8	LRP1	ENSG00000123384	LDL receptor related protein 1 Source HGNC Symbol Acc HGNC 6692
E08	UPFH1132525	ENST00000543091.1	LRP6	ENSG00000070018	LDL receptor related protein 6 Source HGNC Symbol Acc HGNC 6698
E09	UPFH0069386	ENST00000481431.1	LRP8	ENSG00000157193	LDL receptor related protein 8 Source HGNC Symbol Acc HGNC 6700
E10	UPFH0424834	ENST00000392193.5	MAP2	ENSG00000078018	microtubule associated protein 2 Source HGNC Symbol Acc HGNC 6839
E11	UPFH0281608	ENST00000571987.5	MAPT	ENSG00000186868	microtubule associated protein tau Source HGNC Symbol Acc HGNC 6893
E12	UPFH0147710	ENST00000225275.3	MPO	ENSG00000005381	myeloperoxidase Source HGNC Symbol Acc HGNC 7218
F01	UPFH1125511	ENST00000290810.8	NAE1	ENSG00000159593	NEDD8 activating enzyme E1 subunit 1 Source HGNC Symbol Acc HGNC 621
F02	UPFH0059250	ENST00000421914.5	NCSTN	ENSG00000162736	nicastrin Source HGNC Symbol Acc HGNC 17091
F03	UPFH0340767	ENST00000358660.3	NTRK1	ENSG00000198400	neurotrophic receptor tyrosine kinase 1 Source HGNC Symbol Acc HGNC 8031
F04	UPFH0140055	ENST00000376208.5	NTRK2	ENSG00000148053	neurotrophic receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 8032
F05	UPFH0520567	ENST00000426248.7	PKP4	ENSG00000144283	plakophilin 4 Source HGNC Symbol Acc HGNC 9026
F06	UPFH1132830	ENST00000352041.7	PLAT	ENSG00000104368	plasminogen activator, tissue type Source HGNC Symbol Acc HGNC 9051
F07	UPFH1132831	ENST00000446342.5	PLAU	ENSG00000122861	plasminogen activator, urokinase Source HGNC Symbol Acc HGNC 9052
F08	UPFH0091404	ENST00000308192.13	PLG	ENSG00000122194	plasminogen Source HGNC Symbol Acc HGNC 9071
F09	UPFH0607768	ENST00000578063.5	PRKCA	ENSG00000154229	protein kinase C alpha Source HGNC Symbol Acc HGNC 9393
F10	UPFH0529104	ENST00000646168.1	PRKCB	ENSG00000166501	protein kinase C beta Source HGNC Symbol Acc HGNC 9395

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0316461	ENST00000651505.1	PRKCD	ENSG00000163932	protein kinase C delta Source HGNC Symbol Acc HGNC 9399
F12	UPFH0050276	ENST00000306156.8	PRKCE	ENSG00000171132	protein kinase C epsilon Source HGNC Symbol Acc HGNC 9401
G01	UPFH0047967	ENST00000474397.5	PRKCG	ENSG00000126583	protein kinase C gamma Source HGNC Symbol Acc HGNC 9402
G02	UPFH0115663	ENST00000485837.5	PRKCI	ENSG00000163558	protein kinase C iota Source HGNC Symbol Acc HGNC 9404
G03	UPFH0064343	ENST00000539722.5	PRKCG	ENSG00000065675	protein kinase C theta Source HGNC Symbol Acc HGNC 9410
G04	UPFH1132634	ENST00000378567.8	PRK CZ	ENSG00000067606	protein kinase C zeta Source HGNC Symbol Acc HGNC 9412
G05	UPFH0382093	ENST00000555254.5	PSEN1	ENSG00000080815	presenilin 1 Source HGNC Symbol Acc HGNC 9508
G06	UPFH0159620	ENST00000460775.5	PSEN2	ENSG00000143801	presenilin 2 Source HGNC Symbol Acc HGNC 9509
G07	UPFH0304898	ENST00000393078.4	SERPINA3	ENSG00000196136	serpin family A member 3 Source HGNC Symbol Acc HGNC 16
G08	UPFH0584453	ENST00000394991.7	SNCA	ENSG00000145335	synuclein alpha Source HGNC Symbol Acc HGNC 11138
G09	UPFH0228234	ENST00000614675.4	SNCB	ENSG00000074317	synuclein beta Source HGNC Symbol Acc HGNC 11140
G10	UPFH0029555	ENST00000527373.1	UBQLN1	ENSG00000135018	ubiquilin 1 Source HGNC Symbol Acc HGNC 12508
G11	UPFH1132751	ENST00000203407.6	UQCRC1	ENSG00000010256	ubiquinol-cytochrome c reductase core protein 1 Source HGNC Symbol Acc HGNC 12585
G12	UPFH1132976	ENST00000561553.5	UQCRC2	ENSG00000140740	ubiquinol-cytochrome c reductase core protein 2 Source HGNC Symbol Acc HGNC 12586
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	UPFH1126608	UPL_HGDC	HGDC	UPL_HGDC	Human 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.

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.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.