

Appendix 1. List of proteins found in the condition media of ARPE-19 cell cultures.

UniProt ID	Protein Name	Peptide Count	Cellular location
• Cell adhesion/ connective tissue proteins			
P98160	Basement membrane-specific heparan sulfate proteoglycan core protein	56	Extracellular space
P55287	Cadherin-11	2	Extracellular space
P19022	Cadherin-2	19	Membrane
P20908	Collagen alpha-1(V) chain	8	Extracellular space
P12107	Collagen alpha-1(XI) chain	9	Extracellular space
P39060	Collagen alpha-1(XVIII) chain	5	Extracellular space
P05997	Collagen alpha-2(V) chain	2	Extracellular space
Q14574	Desmocollin-3	4	Membrane
Q14126	Desmoglein-2	11	Membrane
Q14118	Dystroglycan	2	Extracellular space
P35555	Fibrillin-1	6	Extracellular space
P02751	Fibronectin	36	Extracellular space
Q12841	Follistatin-related protein 1	5	Extracellular space
P35052	Glypican-1	9	Extracellular space
P05362	Intercellular adhesion molecule 1	5	Membrane
Q16363	Laminin subunit alpha-4	16	Extracellular space
O15230	Laminin subunit alpha-5	8	Extracellular space
P07942	Laminin subunit beta-1	13	Extracellular space
P11047	Laminin subunit gamma-1	14	Extracellular space
Q9Y4K0	Lysyl oxidase homolog 2	4	Extracellular space
Q15262	Receptor-type tyrosine-protein phosphatase kappa	7	Membrane
P34741	Syndecan-2	2	Membrane
P31431	Syndecan-4	5	Membrane
P07996	Thrombospondin-1	22	Extracellular space
P35442	Thrombospondin-2	2	N/A
Q15582	Transforming growth factor-beta-induced protein ig-h3	12	Extracellular space

• **Complement regulator/Immune response**

O75882	Attractin	6	Extracellular space
P61769	Beta-2-microglobulin	4	Extracellular space
P00736	Complement C1r subcomponent	8	Extracellular space
P09871	Complement C1s subcomponent	5	N/A
P01024	Complement C3	11	Extracellular space
P81605	Dermcidin	3	Extracellular space
P02794	Ferritin heavy chain	3	Cytoplasm
P02792	Ferritin light chain	4	Cytoplasm
P06744	Glucose-6-phosphate isomerase	14	Cytoplasm
P61626	Lysozyme C	2	Extracellular space
P09603	Macrophage colony-stimulating factor 1	3	Extracellular space
P20962	Parathymosin	2	Nucleus
P26022	Pentraxin-related protein PTX3	9	Extracellular space
P05155	Plasma protease C1 inhibitor	10	Extracellular space
P06454	Prothymosin alpha	4	Nucleus
O75326	Semaphorin-7A	5	Membrane

• **Development**

Q6UX71	Plexin domain-containing protein 2	3	Membrane
P09486	SPARC	8	Extracellular space

• **Protease /Peptidase / Inhibitor**

Q13443	ADAM 9	2	Extracellular space
P05067	Amyloid beta A4 protein	3	Extracellular space
Q06481	Amyloid-like protein 2	2	Membrane
P13497	Bone morphogenetic protein 1	4	N/A
Q9UI42	Carboxypeptidase A4	9	Extracellular space
P09668	Cathepsin H	7	lysosome
Q9UBR2	Cathepsin Z	3	lysosome
P14780	Matrix metalloproteinase-9	2	Extracellular space
P01033	Metalloproteinase inhibitor 1	2	Extracellular space
P16035	Metalloproteinase inhibitor 2	3	Extracellular space
P30086	Phosphatidylethanolamine-binding protein 1	3	Cytoplasm

P36955	Pigment epithelium-derived factor	8	Extracellular space
P05121	Plasminogen activator inhibitor 1	29	Extracellular space
P25787	Proteasome subunit alpha type-2	5	Cytoplasm
P25788	Proteasome subunit alpha type-3	2	Cytoplasm
P28066	Proteasome subunit alpha type-5	2	Cytoplasm
P60900	Proteasome subunit alpha type-6	5	Cytoplasm
O14818	Proteasome subunit alpha type-7	2	Cytoplasm
P20618	Proteasome subunit beta type-1	3	Cytoplasm
P49721	Proteasome subunit beta type-2	3	Cytoplasm
P49720	Proteasome subunit beta type-3	3	Cytoplasm
P28074	Proteasome subunit beta type-5	7	Cytoplasm
P28072	Proteasome subunit beta type-6	4	Cytoplasm
Q9Y6L7	Tolloid-like protein 2	2	Extracellular space
P01034	Cystatin-C precursor	2	Extracellular space
P12955	Xaa-Pro dipeptidase	2	N/A

• **Signal transduction**

P31946	14-3-3 protein beta/alpha	6	Cytoplasm
P62258	14-3-3 protein epsilon	9	Cytoplasm
P61981	14-3-3 protein gamma	3	Cytoplasm
P63104	14-3-3 protein zeta/delta	6	Cytoplasm
P07355	Annexin A2	14	Extracellular space
P12429	Annexin A3	2	Cytoplasm
P08758	Annexin A5	3	Cytoplasm
O94985	Calsyntenin-1	12	Membrane
Q9H4D0	Calsyntenin-2	7	Membrane
Q13740	CD166 antigen	6	Membrane
Q9UNN8	Endothelial protein C receptor	3	Membrane
Q16610	Extracellular matrix protein 1	3	Extracellular space
P09382	Galectin-1	4	Cytoplasm
Q08380	Galectin-3-binding protein	15	Extracellular space
O94760	N(G),N(G)-dimethylarginine dimethylaminohydrolase 1	2	N/A
P30101	Protein disulfide-isomerase A3	6	ER
Q99497	Protein DJ-1	6	Cytoplasm

P10599	Thioredoxin	2	Cytoplasm
Q16881	Thioredoxin reductase 1, cytoplasmic	7	Cytoplasm
Q13308	Tyrosine-protein kinase-like 7	3	Membrane
Q6EMK4	Vasorin	6	Extracellular space

• **Catabolism**

P15121	Aldose reductase	2	Cytoplasm
P06733	Alpha-enolase	12	Cytoplasm
Q05524	Alpha-enolase, lung specific	5	Cytoplasm
P13929	Beta-enolase	2	Cytoplasm
O00462	Beta-mannosidase	9	lysosome
P43251	Biotinidase	2	Extracellular space
Q13822	Ectonucleotide pyrophosphatase/phosphodiesterase family member 2	9	Extracellular space
P09104	Gamma-enolase	5	Cytoplasm
Q92820	Gamma-glutamyl hydrolase	5	Extracellular space
P00338	L-lactate dehydrogenase A chain	6	Cytoplasm
P40925	Malate dehydrogenase, cytoplasmic	7	Cytoplasm
P40926	Malate dehydrogenase, mitochondrial	4	Mitochondria
P15586	N-acetylglucosamine-6-sulfatase	2	Lysosome
P00558	Phosphoglycerate kinase 1	15	Cytoplasm
P18669	Phosphoglycerate mutase 1	3	Cytoplasm
P15259	Phosphoglycerate mutase 2	2	N/A
P07237	Protein disulfide-isomerase	4	Extracellular space
P29401	Transketolase	13	N/A
P60174	Triosephosphate isomerase	14	N/A
P62988	Ubiquitin	5	Cytoplasm

• **Cell organization and biogenesis**

P63313	Thymosin beta-10	2	Cytoplasm
P68133	Actin, alpha skeletal muscle	16	Cytoplasm
P60709	Actin, cytoplasmic 1	4	Cytoplasm
O00468	Agrin	26	Extracellular space
P12814	Alpha-actinin-1	12	Cytoplasm

O43707	Alpha-actinin-4	17	Cytoplasm
P27797	Calreticulin	6	Extracellular space
Q14019	Coactosin-like protein	5	Cytoplasm
P24592	Insulin-like growth factor-binding protein 6	2	Extracellular space
Q16270	Insulin-like growth factor-binding protein 7	8	Extracellular space
P62937	Peptidyl-prolyl cis-trans isomerase A	5	Cytoplasm
P23284	Peptidyl-prolyl cis-trans isomerase B	9	ER
P07737	Profilin-1	5	N/A
O60361	Putative nucleoside diphosphate kinase	2	N/A
P35241	Radixin	3	Membrane
O00391	Sulfhydryl oxidase 1	17	Extracellular space
P00441	Superoxide dismutase	3	Extracellular space
P62328	Thymosin beta-4	3	Cytoplasm
O43493	Trans-Golgi network integral membrane protein 2	4	Membrane
P06753	Tropomyosin alpha-3 chain	4	Cytoplasm
P67936	Tropomyosin alpha-4 chain	6	Cytoplasm
Q12907	Vesicular integral-membrane protein VIP36	2	Membrane
P08670	Vimentin	10	Cytoplasm

• **Other functions**

P62158	Calmodulin (CaM)	4	Membrane
P99999	Cytochrome C	3	Mitochondria
Q96FE7	Phosphoinositide-3-kinase-interacting protein 1	2	Membrane
Q8N0Y7	Probable phosphoglycerate mutase 4	2	N/A
Q07954	Prolow-density lipoprotein receptor-related protein 1	7	Membrane
P41222	Prostaglandin-H2 D-isomerase precursor	2	Extracellular space
P00491	Purine nucleoside phosphorylase	2	N/A
Q99969	Retinoic acid receptor responder protein 2	4	Extracellular space
O75368	SH3 domain-binding glutamic acid-rich-like protein	4	Cytoplasm
Q9H299	SH3 domain-binding glutamic acid-rich-like protein 3	2	Cytoplasm
P37837	Transaldolase	4	Cytoplasm
Q969H8	Uncharacterized protein C19orf10 precursor	3	Extracellular space
