Datasheet for ABIN7555986

ATP6V0A2 Protein (AA 1-856) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ATP6V0A2
Protein Characteristics:	AA 1-856
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP6V0A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP6V0A2 Protein expressed in mammalian cells.
Sequence:	MGSLFRSETM CLAQLFLQSG TAYECLSALG EKGLVQFRDL NQNVSSFQRK FVGEVKRCEE LERILVYLVQ EINRADIPLP EGEASPPAPP LKQVLEMQEQ LQKLEVELRE VTKNKEKLRK NLLELIEYTH MLRVTKTFVK RNVEFEPTYE EFPSLESDSL LDYSCMQRLG AKLGFVSGLI NQGKVEAFEK MLWRVCKGYT IVSYAELDES LEDPETGEVI KWYVFLISFW GEQIGHKVKK ICDCYHCHVY PYPNTAEERR EIQEGLNTRI QDLYTVLHKT EDYLRQVLCK AAESVYSRVI QVKKMKAIYH MLNMCSFDVT NKCLIAEVWC PEADLQDLRR ALEEGSRESG ATIPSFMNII PTKETPPTRI RTNKFTEGFQ NIVDAYGVGS YREVNPALFT IITFPFLFAV MFGDFGHGFV MFLFALLLVL NENHPRLNQS QEIMRMFFNG RYILLLMGLF SVYTGLIYND CFSKSVNLFG SGWNVSAMYS SSHPPAEHKK MVLWNDSVVR HNSILQLDPS IPGVFRGPYP LGIDPIWNLA TNRLTFLNSF KMKMSVILGI IHMTFGVILG IFNHLHFRKK FNIYLVSIPE LLFMLCIFGY LIFMIFYKWL VFSAETSRVA PSILIEFINM FLFPASKTSG LYTGQEYVQR VLLVVTALSV PVLFLGKPLF LLWLHNGRSC FGVNRSGYTL IRKDSEEEVS LLGSQDIEEG NHQVEDGCRE

Product Details

	MACEEFNFGE ILMTQVIHSI EYCLGCISNT ASYLRLWALS LAHAQLSDVL WAMLMRVGLR VDTTYGVLLL LPVIALFAVL TIFILLIMEG LSAFLHAIRL HWVEFQNKFY VGAGTKFVPF SFSLLSSKFN NDDSVA **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	ATP6V0A2
Alternative Name:	ATP6V0A2 (ATP6V0A2 Products)
Background:	V-type proton ATPase 116 kDa subunit a 2 (V-ATPase 116 kDa subunit a 2) (Lysosomal H(+)-transporting ATPase V0 subunit a 2) (TJ6) (Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2),FUNCTION: Subunit of the V0 complex of vacuolar(H+)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (By similarity). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some

Target Details

	cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). Essential component of the endosomal pH -sensing machinery (PubMed:16415858). May play a role in maintaining the Golgi functions, such as glycosylation maturation, by controlling the Golgi pH (PubMed:18157129). In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (PubMed:28296633). {ECO:0000250|UniProtKB:Q29466, ECO:0000250|UniProtKB:Q93050, ECO:0000269|PubMed:16415858, ECO:0000269|PubMed:18157129, ECO:0000269|PubMed:28296633}.
Molecular Weight:	98.1 kDa
UniProt:	Q9Y487
Pathways:	Transition Metal Ion Homeostasis, Proton Transport

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months