ATP synthase subunit a-2 (ATP6-2), Recombinant Protein

CD BioSciences
Plant Protein

Cat RP00393

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana ATP synthase subunit a-2 (ATP6-2)

Product Synonym Names
Recombinant ATP synthase subunit a-2 (ATP6-2); ATP synthase subunit a-2; F-ATPase protein 6 P6-2

Product Gene Name
atp6-2 recombinant protein

Product Synonym Gene Name
ATP6-2

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
SPLDQFEIVP LIPMHIGNFY FSFTNSSLFM LLTLSFFLLL IHFVTKKGGG NLVPNAWQSL VELLYDFVLN LVKEQIGGLS GNVKQMFFPC ILVTFLFLLF CNLQGMIPYS FTVTSHFLIT LALSFSIFIG ITIVGFQRHG LHFFSFLLPA GVPLPLAPFL VLLELISYCF RALSLGIRLF ANMMAGHSLV KILSGFAWTM LCMNDIFYFI GALGPLFIVL ALTGLELGVA ILQAYVFTIL ICIYLNDAIN LH

Sequence Positions
98-349

Chromosome Location
Chromosome: MT; NC_001284.2 (296820..297869, complement)

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
39,729 Da

Storage
Store at -20℃. For extended storage, store at -20 or -80℃.

Protein Family
ATP synthase

NCBI Accession
NP_085569.1

NCBI GI
13449387

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Cat *RP00393*

NCBI GenBank Nucleotide
NC_001284.2

NCBI GeneID
3890461

NCBI Official Full Name
ATPase subunit 6

NCBI Official Symbol
atp6-2

NCBI Protein Information
ATPase subunit 6

UniProt Gene Name
ATP6-2

UniProt Protein Name
ATP synthase subunit a-2

UniProt Synonym Protein Names
F-ATPase protein 6; P6-2

UniProt Entry Name
ATP62_ARATH

UniProt Primary Accession
P92547

UniProt Secondary Accession
Q1ZXW9

UniProt Comments
Function: Mitochondrial membrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F1 - containing the extramembraneous catalytic core and F0 - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Key component of the proton channel; it may play a direct role in the translocation of protons across the membrane By similarity.Subunit structure: F-type ATPases have 2 components, CF1 - the catalytic core - and CF0 - the membrane proton channel. CF1 has five subunits: alpha3, beta3, gamma1, delta1, epsilon1. CF0 has three main subunits: a, b and c.Subcellular location: Mitochondrion inner membrane; Multi-pass membrane protein. Miscellaneous: The atp6 gene is located on the border of one of the mitochondrial DNA repeats resulting in two identical copies of the mature protein with different propeptide extensions.Sequence similarities: Belongs to the ATPase A chain family.RNA editing: Edited at position 123.

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