

Datasheet for ABIN3385276

Human MT-ATP6 cDNA Clone in Mammalian Expression Vector

Overview

| | |
|--------------|-----------------------------|
| Quantity: | 10 µg |
| Gene: | MT-ATP6 |
| Species: | Human |
| Insert: | cDNA |
| Vector: | Mammalian Expression Vector |
| Application: | Protein Expression (PEXP) |

Product Details

| | |
|-----------------------|--|
| Purpose: | Untagged full-length cDNA clone from Human MTATP6 is ideal for over-expression of native protein for functional studies. |
| Brand: | TrueClones® |
| Insert Length: | 1100 bp |
| Vector Backbone: | pCMV6-XL5 |
| Promoter: | Enhanced CMV Promoter, T7 Promoter |
| Bacterial Resistance: | Ampicillin |
| Expression Type: | Transient |
| Specificity: | Restriction Site: NotI-NotI |
| Characteristics: | <ul style="list-style-type: none"> • These cDNA clones are isolated from full-length cDNA libraries and usually contain the coding sequence as well as the untranslated regions (UTRs) of the mRNA transcript appropriate to the library from which they were isolated. • These cDNA clones are ideal for over-expression of native proteins for functional studies. Provided as 10 µg transfection-ready plasmids. • Every lot of primer is tested to provide clean sequencing of cDNA clones. |
| Purification: | The DNAs were purified using PowerPrep HP Plasmid isolation kits for transfection ready |

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Product Details

plasmids.

Sequencing Primer: VP1.5 (forward) 5'GGACTTTCCAAAATGTTCG 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'

Components:

- The cDNA clone is shipped in a 2-D bar-coded Matrix tube as dried plasmid DNA.
- The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

Target Details

Gene: MT-ATP6

Alternative Name: MTATP6 ([MT-ATP6 Products](#))

Background: Mitochondrial membrane ATP synthase (F(1)F(0) 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, F(1) - containing the extramembraneous catalytic core and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) 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. [UniProtKB/Swiss-Prot Function]

NCBI Accession: [NM_173702](#), [NP_776050](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT, -20 °C

Storage Comment: The lyophilized plasmid is stable for up to one year when stored at ambient temperature. Following dissolution in 100 µL dH₂O, store at -20 °C. Lyophilized primers are stable for up to one year when stored at ambient temperature. Following dissolution in 10 µL dH₂O, store at -20 °C.

Expiry Date: 12 months

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Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)