

## Product datasheet for **SC126708**

### MT ATP6 (ATP6) (NM\_173702) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MT ATP6 (ATP6) (NM_173702) Human Untagged Clone
Tag:	Tag Free
Symbol:	MT ATP6
Synonyms:	ATP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC126708 representing NM_173702. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACGAAAACCTGTTTCGCGTCTTTTATCGCGCCGACCATTCTGGGTCTGCCGGCTGCCGTTACTGATC
ATTCTGTTTCCGCGCTGCTGATCCCGACCTCTAAATATCTGATTAACAACCGTCTGATCACCACCTCAG
CAGTGGCTGATCAAACCTGACTTCTAAACAGATGATGACCATGCATAACACCAAAGGTCGTACCTGGTCT
CTGATGCTGGTTCCCTGATCATCTTCATCGGACTACTAACCTGCTGGGCTGCTGCCGACTCTTTC
ACCCCGACTACCCAGCTGCCATGAACCTGGCGATGGCGATTCCGCTGTGGCGGGTACCGTTATCATG
GGTTTCCGTTCTAAAATCAAAAACGCGCTGGCGCACTTCTGCCGAGGGCACTCCGACCCCGCTGATT
CCGATGCTGGTAATTATCGAAACCATCTCCCTGCTGATCCAGCCGATGGCACTGGCGGTTCTGCTGACT
GCGAACATTACTGCGGGTCATCTGCTGATGCACCTGATTGGTTCTGCTACTCTGGCTATGAGCACCATC
AACCTGCCGTCTACCCTGATTATCTTTACCATCCTGATTCTGCTGACTATCCTGAAATCGCGGTTGCA
CTGATTCAGGCGTACGTGTTTACTCTGCTGGTGTCCCTGTACCTGCACGACAACACTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_173702
Insert Size:	681 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_173702.1</a></u>
<b>RefSeq Size:</b>	843 bp
<b>RefSeq ORF:</b>	681 bp
<b>Locus ID:</b>	4508
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	24.8 kDa
<b>Gene Summary:</b>	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]