

Product datasheet for **SC117084**

ATP5MPL (NM_004894) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ATP5MPL (NM_004894) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ATP5MPL |
| Synonyms: | 6.8PL; C14orf2; MLQ; MP68; PLPM |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC117084 sequence for NM_004894 edited (data generated by NextGen Sequencing) ATGCTTCAAAGTATTATTAACAAACATATGGATCCCCATGAAGCCCTACTACACCAAAGTT TACCAGGAGATTTGGATAGGAATGGGGCTGATGGGCTTCATCGTTTATAAAATCCGGGCT GCTGATAAAGAAGTAAGGCTTTGAAAGCTTCAGCGCCTGCTCCTGGTCATCACTAA Clone variation with respect to NM_004894.2 |
| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_004894 unedited TGATATTTGTATACGACTTACTATAGGGCGGCCGGAATTCGGCAGGAGNAGCCGCTGTG CCTGCGCCAAGATGCTTCAAAGTATTATTAACAAACATATGGATCCCCATGAAGCCCTACT ACACCAAAGTTTACCAGGAGATTTGGATAGGAATGGGGCTGATGGGCTTCATCGTTTATA AAATCCGGGCTGCTGATAAAGAAGTAAGGCTTTGAAAGCTTCAGCGCCTGCTCCTGGTC ATCACTAACAGATTTACTTGGAGTACATGTGAAAGAAAACGTCAGTCTGCCTGTAAATT TCAGCAAGCCGTGTTAGATGGGGAGCGTGAACGTCAGTGTACACTTGTATAAGTACCGT TTACTTCATGGCATGAATAAATGGATCTGTGAGATGCACAAAAAAAAAAAAAAAAAAAA AAAAAAAAAACCTCGACTCTAAATTGCGGCCGCGGTTCATAGCTGTTTCCCTGAACAGATC CGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTC CAGTGCCACCAGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGT CCTTCTATAATATTATGGGGTGGAGGGGGTGGTATGGAGCAAGGGGCAAGTTGGGAAGA CAACCTGTAGGGCCTGCGGGGTCTATTGGGAACCAAGCTGGAGTGCAGTGGCACAATCTT GGCTCACTGCAATCTCCGCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGT TGTTGGGATTCAGCCATGCATGACCAGNCTCACTTAATTTTTGTTTCTTTGGTAGAGAA CGGGTTCACCATATTGGCCCGCTGGGCTCCACTCCTCATCTCAGGGGAATTACCCAC CTTGGCCTCCAAATTGNTGGGATAACAGCGGGAACCACTGTCCCTCCCTGCCTTTTCGATT TAAAAACCATCN |
| Restriction Sites: | NotI-NotI |



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| ACCN: | NM_004894 |
| Insert Size: | 340 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). |
| Components: | 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). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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. |
| RefSeq: | NM_004894.1 , NP_004885.1 |
| RefSeq Size: | 627 bp |
| RefSeq ORF: | 177 bp |
| Locus ID: | 9556 |
| UniProt ID: | P56378 |
| Cytogenetics: | 14q32.33 |
| Protein Families: | Transmembrane |
| Gene Summary: | <p>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 (Probable). Minor subunit required to maintain the ATP synthase population in the mitochondria (PubMed:24330338). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the predominant isoform (1).</p> |