

## Product datasheet for **SC322677**

### ATPSCKMT (NM\_199133) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATPSCKMT (NM_199133) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATPSCKMT
Synonyms:	FAM173B; hFAM173B; JS-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for SC322677  
 CGCGATGGAGGGAGGAGGAGGTATACCCCTAGAAAACACTTAAAGAAGAAAGTCAGTCAAG  
 ACATGTTCTACCTGCAAGTTTTGAAGTCAACAGTTTGCAGAAAAGCAACTGGGGTTCTT  
 ACTTACTGGGCTTGTGGGTGGCACCCCTGGTGGCTGTGTACGCTGTAGCCACGCCGTTTGT  
 AACGCCAGCCCTCGAAAAGTCTGTTTGCCATTTGTACCTGCAACTATGAAGCAGATTGA  
 AAATGTTGTGAAAATGTTGCGATGCCGAAGAGGATCCCTTGTGGACATCGGTAGTGGGA  
 CGGACGCATTGTCATAGCGGCTGCGAAGAAAGGGTTCACAGCAGTTGGTTATGAATAAA  
 CCCATGGCTAGTTTGGTATTCCAGATACCGCGCTTGGCGAGAAGGTGTGCATGGATCTGC  
 CAAATTTTATATTTTCCAGATTTGTGGAAGTTACTTTTTCCGAGTACTCGAACGTTGTTAT  
 TTTTCGGTGTGCCTCAGATGATGCTGCAGTTGGAGAAGAACTTGAACGTGAACCTGAGGA  
 TGATGCACGAGTTATTGCTTCCCGTTCCTTTCCACATTGGACTCCAGACCACGTAC  
 GGGGGAGGGGATAGACACAGTGTGGCATAATGATGCAAGCACTTTAGAGGCCGTGAAAA  
 GAGGCCGTACATCGATGCATTTCCAGCTGCCATTCAAGCATAAACTTTACTGGGAGT  
 GTTTTTCTGAAAATTGTAGTCTTCCCTGATCTTGTAGAGACTTACAGCTGTGCCTTAG  
 CAAAGGAGCATAATTGTCTTTGGTTTGAATGAGAAATTACTATTACTTTCTTAACTGT  
 TGGAGAAAACAAACGAAGAAAAACAGGTAGATTTAAAATCTGCTTTTGTGCTATTTTCT  
 TAAAAATTGTACTIONACTGCTTTCCATGCACCTGGATGCATGAAAAGATGAATAAGTGAT  
 GGTGATGGTTATGGGTAGGAAAATAAGATGCCAATAGCTTTCACATTATAAACAATATG  
 GCTTAATGCCTCGATAAGGAGAAATGATTTTTAAAGACAGTATATATTACCAACTGTTTG  
 TAGTATCCTATAACTTTGTTTACTTAAAGTTGTATCTCTTTCTTTTGTACTTCATGG  
 CAAAATTAATTTTCTAAAGGATTCAGAGAGGCGTTTATTTTTATAACATTTATTAGAAA  
 TAATTTGTTCCACCACTAGATTACTGTATTTTATGGAATCTAAGCTGTATATGTGTACAT  
 TTGTATACATGTATGTGTAATGTAAGCCTGACGTGGGTTCCAGATTCCAGTTTGTGCATC  
 AGCAAGAGGCCTCGGACCCATGACTTACTGCCTCTGAGCCTTGGCTTTCTGTGTATCTCT  
 GCCACTGGGATAATGGTACACATAACAGTGGAGTGGGACCAATTTCTAAAACATGCGC  
 ACCTAGTCTTTGGTCCATAAATGGTGTGTTTATTTTAGACACTGAGAAAAATCTTATTC  
 ACAGAAGTTGCAGATTATTTCTGCTAGTCACTTTTTTATTTCTTGTAGAGCTGCCACTCAT  
 TTAATATTTCTCATTTATGAGAAGAGACTTACTGATTTAGATAAAAGACGAATTAAGGA  
 AAACCTTTGAACGTGAGTAGACAAGCTTCATATATCTGTAAGTGAATATTGAATGGTAG  
 CTTGAGTCATTCTACTTATCACAGAAAAGAAATGAACTCCAGTCATACACCTGTAAC  
 GAAATACCAAACGTCTTAATGGAGATGTAATGAAGTAAGATGGTCACATCTTAACTAA  
 ACTTATAAAAATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_199133

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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\\_199133.1](#), [NP\\_954584.1](#)

**RefSeq Size:** 1839 bp

**RefSeq ORF:** 702 bp

**Locus ID:** 134145

**UniProt ID:** [Q6P4H8](#)

**Cytogenetics:** 5p15.2

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** Mitochondrial protein-lysine N-methyltransferase that trimethylates ATP synthase subunit C, ATP5MC1 and ATP5MC2. Trimethylation is required for proper incorporation of the C subunit into the ATP synthase complex and mitochondrial respiration (PubMed:29444090, PubMed:30530489). Promotes chronic pain (PubMed:29444090). Involved in persistent inflammatory and neuropathic pain: methyltransferase activity in the mitochondria of sensory neurons promotes chronic pain via a pathway that depends on the production of reactive oxygen species (ROS) and on the engagement of spinal cord microglia (PubMed:29444090).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.