

Product datasheet for **SC334048**

ATPSCKMT (NM_001258389) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATPSCKMT (NM_001258389) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATPSCKMT
Synonyms:	FAM173B; hFAM173B; JS-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC334048 representing NM_001258389. Blue=Insert sequence Red=Cloning site Green=Tag(s)

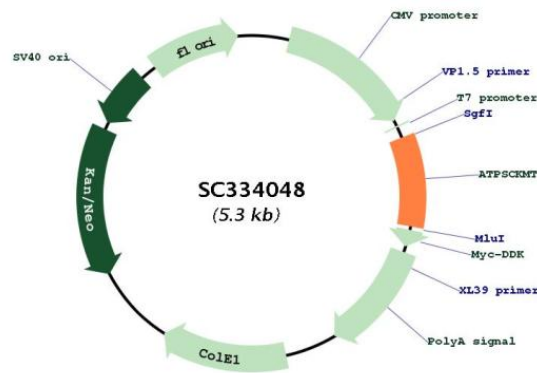
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGGAGGAGGAGGTATACCCCTAGAAACACTTAAAGAAGAAAGTCAGTCAAGACATGTTCTACCT
GCAAGTTTTGAAGTCAACAGTTTGCAGAAAAGCAACTGGGGTTCTTACTTACTGGGCTTGTGGGTGGC
ACCCTGGTGGCTGTGTACGCTGTAGCCACGCCGTTTGTAAACGCCAGCCCTTCGAAAAGTCTGTTTGCCG
TTTGTACCTGCAACTACGAAGCAGATTGAAAATGTTGTGAAAATGTTGCGATGCCGAAGAGGATCCCTT
GTGGACATCGGTAGTGGGACGGACGCATTGTCATAGCGGCTGCGAAGAAAGGTTTACAGCAGTTGGT
TATGAATTAACCCATGGCTAGTTTGGTATTCCAGATACCGCGCTTGGCGAGAAGGTTACTTTTTGCA
GTACTCGAACGTTGTTATTTTCGGTGTGCCTCAGATGATGCTGCAGTTGGAGAAGAACTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001258389

Insert Size: 477 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:

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_001258389.1](#)

RefSeq Size:	2628 bp
RefSeq ORF:	477 bp
Locus ID:	134145
Cytogenetics:	5p15.2
Protein Families:	Druggable Genome, Transmembrane
MW:	17.4 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the coding region, which results in a frameshift, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to 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.</p>