

Product datasheet for SC322256

ATPBD3 (CTU1) (NM_145232) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATPBD3 (CTU1) (NM_145232) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATPBD3
Synonyms:	ATPBD3; NCS6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for SC322256

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GAGAAGCCGACCCCTCCCGCAATGCCCCGCCCGCGCTGCGCCTCCTGCCATGCTGCACGC
GCCGCCCTCCGCGTCCGCTCTCGGGCCAAGCGCTGTGCGGTGCCTGCTTCTGCGCCGCC
TTCGAGGCCGAGGTGCTGCACACGGTGTCTCGCCGGCCGCCTGCTGCCGCCCGGCGCGGTG
GTGGCCGTGGGCGCCTCGGGCGGCAAGGACTCCACGGTGTGGCGCACGTGAGGCGCGCG
CTGGCGCGCGCGCTGGGCATCTCACTGCAGCTCGTGGCCGTGATGAGGGCATCGGTGGC
TACCGGGACGCGCGTGGCGGCCGTGCGGCGCCAGGCGGTGCGCTGGGAGCTGCCGCTC
ACGGTCTGGGCTACGAAGACCTCTTTGGGGGCTGGACGATGGACGCCGTGGCCCGCAGC
ACAGCCGGCTCCGGCCGAGCCGCTCTGCTGCACCTTCTGTGGAGTGTGCGGCGCCGG
GCGCTGGAGGAAGGGGCGCGCCGCTGGGAGCCACGCACATCGTGACAGGTCAACAACGCC
GACGACATGGCGGAGACCGTGTCTATGAATTCCTACGGGGCGACGCGGGGCGGCTGGCC
CGGGGCGGGGCGCTGGGCTCTCCCGCGAGGGGGGCGCCCTGCCGCGCTGCCGCCCGCTG
CAGTTCGCTCGCAGAAGGAGGTGGTGTGTACGCGCACTTCCGCCGCTCGACTACTTC
TCCGAGGAGTGCGTCTACGCGCCGAGGCCTTCCGCGGCCACGCCGGGACCTGTCTAAG
CGCCTGGAGGCGGCGCGGCCGTCCGCGGTGCTGGACCTCGTGACTCGGCCGAGCGCCTG
GCGCTGGCCCCGGCGCGCGGCCCGCGCCCCGGCGCTGCTCCCGTGTGGGGCGCTG
GCCAGCCGCGCTCTGCCAGGCCTGCGCGCTCTGGACGGCTGAACCGCGGCCGCCGCC
CGCCTGGCCATCGGCAAGGGCCGCCGGGTCTGGACGAGGAGCGACCGGGGACGCCC
GGGGATCCGGCCCGCCCCCGCTCCAAGGCCGTCCACCTTCTAGCGACTTCGGGCC
TCCCGCCGGATCTGATCCGCGGGGTGGGGCTGCCTGTAATGACACTGTGAATAAAC
CCGTTACCTTAAAAAAAAAAAAAAAA
  
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Restriction Sites:	Please inquire
ACCN:	NM_145232


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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:	<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:	<u>NM_145232.2, NP_660275.1</u>
RefSeq Size:	1166 bp
RefSeq ORF:	1047 bp
Locus ID:	90353
UniProt ID:	<u>Q7Z7A3</u>
Cytogenetics:	19q13.41
Domains:	ATP_bind3
Gene Summary:	Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). Directly binds tRNAs and probably acts by catalyzing adenylation of tRNAs, an intermediate required for 2-thiolation. It is unclear whether it acts as a sulfurtransferase that transfers sulfur from thiocarboxylated URM1 onto the uridine of tRNAs at wobble position.[UniProtKB/Swiss-Prot Function]