

Product datasheet for **SC318540**

ATP8A2 (NM_016529) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP8A2 (NM_016529) Human Untagged Clone
Tag: Tag Free
Symbol: ATP8A2
Synonyms: ATP; ATP1B; CAMRQ4; IB; ML-1
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_016529, the custom clone sequence may differ by one or more nucleotides

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ATGCTGAACGGCGCAGGCCTGGACAAAGCTCTTAAGATGTCCCTGCCGCGGAGGTCGAGG
ATCCGCTCGTCCGTGGGACCTGTTCTTCTTTGGGCTATAAGAAGGCAGAGGATGAG
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AACCAACCGCATCTCAACAAATTCGCGACAACCAGATCAGTACGGCCAAGTACAGCGTG
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GTCTTCACAGCCAGAACACCATTTCTCAGTCATCATAGAAGCGATGGGACAGGAACAAACA
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CGAACTCCTTCAGGACGACTTCGGCTTTACTGTAAGGGGCTGATAATGTGATTTTTGAG
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 TTTTCTCAAGAAGAACACGGAGCTGTTAGTCAGGAAGAAGTCATCCGTGCTTATGACACC
 ACCAAAAAGAAATCCAGGAAGAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_016529
- 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_016529.4](#), [NP_057613.4](#)

RefSeq Size: 5006 bp

RefSeq ORF: 3567 bp

Locus ID: 51761

UniProt ID: [Q9NTI2](#)

Cytogenetics: 13q12.13

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a member of the P4 ATPase family of proteins, which are thought to be involved in a process called lipid flipping, whereby phospholipids are translocated inwards from the exoplasmic leaflet to the cytosolic leaflet of the cell membrane, which aids in generating and maintaining asymmetry in membrane lipids. This protein is predicted to contain an E1 E2 ATPase, a haloacid dehalogenase-like hydrolase (HAD) domain, and multiple transmembrane domains. Associations between this protein and cell cycle control protein 50A are important for translocation of phosphatidylserine across membranes. Mutations in this gene have been associated with a syndrome (CAMRQ4) characterized by cerebellar ataxia and cognitive disabilities. In addition, a translocation breakpoint within this gene was observed in an individual with neurological dysfunction. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2017]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.