

Product datasheet for SC315209

ATP11C (NM_173694) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP11C (NM_173694) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP11C
Synonyms:	ATPIG; ATPIQ; HACXL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315209 representing NM_173694. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGCAGATGGTCCCATCTCTCCCTCCAGCCTCTGAGTGTGCTGGAGAAGAGAAACGAGTTGGCACACGC
 ACAGTGTGTTGGCAATCATCCAGTTTCGAAACAGAAGCTTACATTGCACAAAGATTTTGTGATAAT
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 ATTGCAAATTTTATTTTCTCATAATCTTCCTGTACAGGTCACAGTAGACACACCAACTAGCCAGTT
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GGAGCTAAAAGGTACGGGTTACATTTTTAGGAAATCGAAATGGATATATGAGAGTAGAGAACCAAAGA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_173694
Insert Size:	3399 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).
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_173694.4](#)

RefSeq Size: 6128 bp

RefSeq ORF: 3399 bp

Locus ID: 286410

UniProt ID: [Q8NB49](#)

Cytogenetics: Xq27.1

Protein Families: Transmembrane

MW: 129.6 kDa

Gene Summary: Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. In the cell membrane of erythrocytes, it is required to maintain phosphatidylserine (PS) in the inner leaflet preventing its exposure on the surface. This asymmetric distribution is critical for the survival of erythrocytes in circulation since externalized PS is a phagocytic signal for splenic macrophages (PubMed:26944472). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules (By similarity). Required for B cell differentiation past the pro-B cell stage (By similarity). Seems to mediate PS flipping in pro-B cells (By similarity). May be involved in the transport of cholestatic bile acids (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).