

Product datasheet for **SC101861**

ATP11C (AK091552) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP11C (AK091552) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP11C
Synonyms:	ATPIG; ATPIQ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK091552, the custom clone sequence may differ by one or more nucleotides

ATGAAAATTTCTGGCAATGCCATGCTACAGTTGGGCCCTTCTTATATTGGACATTTCTGGCTGCCTTTG
AAGGGACAGTGTTCTTCTTTGGGACTTACTTTCTTTTCAGACTGCATCCCTAGAAGAAAATGGAAGGT
ATACGGAACTGGACTTTTGAACCATTTGTTTTACAGTCTTAGTATTCAGTGAACCTGAAGCTTGCC
TTGGATACCCGATTCTGGACGTGGATAAATCACTTTGTGATTTGGGGTTCTTTAGCCTTCTATGATTTT
TCTCATTCTTCTGGGGAGGAATTATTTGGCCTTTTCTCAAGCAACAGAGAATGTATTTGTATTTGCCCA
AATGCTGTCTTCTGTATCCACATGGTTGGCTATAATTCTTCTAATATTTATCAGCCTGTTCCCTGAGATT
CTTCTGATAGTATTAAGAATGTAAGAAGAAGAAGTGCCAGGGTTCATCACTTAATTTCTTCTTCTGCAT
AA



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5' Read Nucleotide Sequence:

>OriGene 5' read for AK091552 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGTGAGAATAGCACAC
 CTTGTACAGTACTTCTTCTATAAGAACCTTTGTTTCATTTTGCCACAGTTTTGTACCAG
 TTCTTCTGTGGATTCTCACAACAGCCACTGTATGATGCTGCTTACCTTACAATGTACAAT
 ATCTGCTTCACATCCTTGCCCATCTGGCCTATAGTCTACTGGAACAGCACATCAACATT
 GACACTCTGACCTCAGATCCCCGATTGTATATGAAAATTTCTGGCAATGCCATGCTACAG
 TTGGGCCCTTCTTATATTGGACATTTCTGGCTGCCTTTGAAGGGACAGTGTCTTCTTT
 GGGACTTACTTTCTTTTTCAGACTGCATCCCTAGAAGAAAATGGAAAGGTATACGGAAAC
 TGGACTTTTGAACCATTTGTTTTACAGTCTTAGTATTCACTGTAAACCCTGAAGCTTGCC
 TTGGATACCCGATTCTGGACGTGGATAAATCACTTTGTGATTTGGGGTCTTTAGCCTTC
 TATGTATTTTCTCATTCTTCTGGGGAGGAATTATTTGGCCTTTTCTCAAGCAACAGAGA
 ATGTATTTTGTATTTGCCAAATGCTGTCTTCTGTATCCACATGGTTGGCTATAATTCTT
 CTATATTTATCAGCTGTTCCTGAGATTCTTCTGATAGTATTAAGAATGTAAGAAGAA
 GAAGTGCCAGGAATCCCGATCTTNGACTGCCTATGNTATTGCTCTACAGCATACTGACAG
 TGGTTACAGCTAANAAAGAAAGCATGAAGAAACCACTACCAAAAGTTATCATCTCAGGAT
 ACTTGATATGCCACACTAAACCACTCTCATGTCTAGAGTCACAATANAGTTCATTAA
 TACCAATGATTCTCTAGCATTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for AK091552 unedited
 NNNNCGTTAAGACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTT
 TTTTCATATCATACCAAGTTTATTGGTTACCCCAACAAAAATTTCTGTAATGGAAAAG
 GCAAGTTGCAGTCCTAAAAGATGGCCTTCACATTCATTTTAAAAAGCCACCACGTAGATG
 TAAAAAAGCTTAAGTGAAAAATGTAATATTGCAGTCCCATTTTGAAGCTGAAAAATG
 ATTTTGTCAACCCCTAAAATCTGCCATTTATATACTGCATGTTATTAATAATATAT
 TCNCTCCCCCTTAAATTTATTTACCAAATTTTGCGAAAAGTTAGGCTCTACATTTA
 TACCCGGTGCTGGGGTATGGTGTAAATTGAAATGGGAAGGAAAGTTTTCCATTTAAAAA
 GGGGAAACCCCCCAACCAAGGGGGCCACACGGGGTTTGGGAAAAATTTCCCCCCC
 GGCCCCCTTTTTTTGGAGGGGGCCCCCAAAATTTTTCATTTTTGGGGGGGGGAGGA
 ACCCCCAAAATTTTTTCCCCCCCCCTCGGGGGGCAAAAAAAGGGGGGGGGGA
 ANNNTTCTTNTAGTAGCAAGGGGGGCNNCCCCCCCCCCCCCTTTTATAAAAAA
 AATTTTTTNNNNNNNNNNNNNNCCCCCCCCCCCCCGGGGGGGGGGGTTTTTTTTGC
 CCCCCCCCCCAAAAAAATTTTTTTTTTAAAAAAGAGAAGGACGCAACGCCCCCCCCC
 CCCCCCGGGGTGTGGTGGGAGCGCGCCAGACACAAAGAAGGAAAGGTGCTAGTAGCCCCC
 GCCGCCCTAATAATAAAAAAAGCCGCCGGGGCGGCGCACCAG

Restriction Sites:

NotI-NotI

ACCN:

AK091552

Insert Size:

3500 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:	AK091552.1 , BAC03692.1
RefSeq Size:	3165 bp
RefSeq ORF:	3165 bp
Locus ID:	286410
Cytogenetics:	Xq27.1
Protein Families:	Transmembrane
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]