

Product datasheet for **SC307726**

ATP13A5 (NM_198505) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP13A5 (NM_198505) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP13A5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307726 representing NM_198505. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGGAAGAGAACAGTAAGAAGGACCATCGGGCTTTGCTCAACAGGGAGAGGAGGATGAAGTGGAGGTG
TTTGGTTACCGGACCACAATGTACGGAAGCCTTCTGCCTTGTGCGATCCGTGCTGACCTGTGGGGC
CTTCTGCTGGTGTCTACTGGAGACCCAGTGGAGAGTGTGGCCAACTGCATCCCATGCCCTTGCAA
GAAGCAGACACTGTTTTGCTGAGGACAACAGACGAATTTCAAAGATATATGAGGAAGAAGTATTCTGC
CTCTACTTATCCACACTGAAGTTTCTGTAAAGCAAGAAGTGGGAAGAATCCCTGGTGGCTGACCGCCAC
TCTGTCTATAAACCAAGCCTTAATAAAGCCAGAATTAAGTGGTGCATGGAAGTGCAGAAAATCAGG
TATGTTTTGGAACGACCTGGAGAAGCGGTTTCAGAAAGTTGGGTTGCTAGAAGACAGCAATTCCTGCTCT
GACATCCATCAGACATTTGGATTGGGTCTGACCACTGAAGAGCAAGAGGTGAGAAGATTAGTGTGTGGG
CCCAACGCCATTGAGGTTGAAATCCAACCCATATGGAAGCTGCTTGTAAACAGTTTTAAATCCATTC
TATGTGTTCCAAGCCTTCAACCTAATTTGTGGCTGTCTCAAGGTTACATAGAATACTCTGTGGCCATC
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AACTGCTTCCAGGAAGCCACAGCTTTGCTCAGGCCAGGCTGTGCCATGGAGCCCACTGTGTGCGGCC
ATGGCCAGCTGCCACTCTCTGATCCTTCTCAATGGGACCATCCAGGGAGACCCTCTGGACCTCAAATG



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TTTGAGGGCACTGCCTGGAAAATGGAAGATTGCATTGTAGACTCCTGCAAATTTGGGACGTCAGTTTCA
AACATCATAAAACCAGGACCAAAAGCCAGTAAGAGTCCAGTGGAAGCCATCATCACCTTGTGCCAGTTT
CCATTTTCTCGAGCCTGCAGAGGATGTCGTGATCGCTCAGTACGTGGGGAGAATCATTTCCATGTC
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GCATCCCTTTTACCTCTAAAACAACCAACATCCAGTGTGTGCCTCATCTCATCAGAGAAGCGCGAGCT
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CTGCTAGCTGCCTTGGGCTCACAATTTTCAATCTGTTTCTGACTTTCAAGTTATATACCGTGGAATG
GAGTTGATCCCAACCATAACATCGTGGAGGTTTTAATTTTGGTGGTAGCCCTCACCCAATTCTGTGTG
GCTTTCTTTGTAGAGGATTCCATCCTTCAAAATCATGAACTCTGGCTGTTGATCAAAAGAGAATTTGGA
TTCTACTCTAAAAGTCAATATAGGACTTGGCAAAAGAGTAGCAGAAGACTCAACCTGGCTCCCAT
AACAGGACAGATTATTCAGGTGATGGCAAAATGGATTCTACATCAACGGAGGCTATGAAAGCCATGAA
CAGATTCCAAAAGAAAACCTCAAATTGGGAGGCCAACCCACAGACAGATTTCTGGGCCAGGCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_198505
Insert Size:	3657 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:	<u>NM_198505.2</u>
RefSeq Size:	3657 bp
RefSeq ORF:	3657 bp
Locus ID:	344905
UniProt ID:	<u>Q4VNC0</u>
Cytogenetics:	3q29
Protein Families:	Transmembrane
MW:	137.3 kDa
Gene Summary:	This gene encodes a member of the P5 subfamily of P-type transport ATPases. P-type ATPases form a large superfamily of cation and lipid pumps that transport inorganic cations and other substrates across cell membranes. P5 ATPases are localized to membranes of the endoplasmic reticulum (ER) and serve many important functions including transport of cargo proteins to the Golgi, glycosylation and cell wall biosynthesis, control of protein insertion orientation, 3-hydroxy-3-methylglutaryl-CoA reductase (HMGR) degradation, and sensitivity to unfolded protein response (UPR) activators. The encoded protein is organized into three cytoplasmic domains (A, P, and N) and two membrane-embedded domains (T and S). The N-domain binds ATP and serves as a built-in protein kinase, which phosphorylates the P-domain. The A-domain is an intrinsic protein phosphatase, which dephosphorylates the P-domain once during each catalytic cycle. [provided by RefSeq, Jul 2017]