

Product datasheet for **SC337606**

ATP2A1 (NM_001286075) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP2A1 (NM_001286075) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP2A1
Synonyms:	ATP2A; SERCA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001286075, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAAGTCTACCGGCTGACCGCAAGTCAGTGCAAAGGATCAAGGCTCGGGACATCGTCCCTGGG
ACATCGTGGAGGTGGCTGTGGGGACAAAGTCCCTGCAGACATCCGAATCCTCGCCATCAAATCCACCAC
GCTGCGGGTTGACCAGTCCATCCTGACAGGCGAGTCTGTATCTGTCATCAAACACACGGAGCCCGTTCTC
GACCCCGGAGCTGTCAACCAGGACAAGAAGAACATGCTTTTCTCGGGCACCAACATTGCAGCCGGCAAGG
CCTTGGGCATCGTGGCCACCCTGGTGTGGGCACCGAGATTGGGAAGATCCGAGACCAAATGGTGGCCAC
AGAACAGGACAAGACCCCTTGCAGCAGAAGCTGGATGAGTTTGGGGAGCAGCTCTCCAAGGTCACTCC
CTCATCTGTGTGGCTGTCTGGCTTATCAACATTGGCCACTTCAACGACCCCGTCCATGGGGGCTCCTGGT
TCCGCGGGGCCATCTACTACTTTAAGATTGCCGTGGCCTTGGCTGTGGCTGCCATCCCCGAAGGTCTTCC
TGCAGTCATCACCACTGCCTGGCCCTGGGTACCCGTGGATGGCAAAGAAGAATGCCATTGTAAGAAGC
TTGCCCTCGTAGAGACCCTGGGCTGCACCTCTGTCTGTCCGACAAGACAGGCACCCTCACCACCA
ACCAGATGTCTGTCTGCAAGATGTTTATCATTGACAAGGTGGATGGGGACATCTGCCTCCTGAATGAGTT
CTCCATCACCGGCTCCACTTACGCTCCAGAGGGAGAGGTTTGAAGAATGATAAGCCAGTCCGGCCAGGG
CAGTATGACGGGCTGGTGGAGCTGGCCACCATCTGTGCCCTCTGCAATGACTCCTCCTTGGACTTCAACG
AGGCCAAAGGTGTCTATGAGAAGGTGCGGAGGCCACCGAGACAGCACTCACCACTGGTGGAGAAGAT
GAATGTGTTCAACACGGATGTGAGAAGCCTCTCGAAGGTGGAGAGAGCCAACGCCTGCAACTCGGTGATC
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CGACCGTGTAACTATGTGCGAGTTGGCACCACCCGGTGGCCACTGACGGGGCCGGTGAAGGAAAAGATC
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GACGCCGGATCCGGGTGATCATGATCACTGGGGACAACAAGGGCACAGCCATTGCCATCTGCCGCGAA
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CCTGGCTGAACAGCGGGAAGCCTGCCGACGTGCCTGCTGCTTCCGCCGTGGAGCCCTCGACAAGTCC
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CTGCCCTGAAGAAGGCTGAGATTGGCATTGCCATGGGATCTGGCACTGCCGTGGCCAAGACTGCCTCTGA
GATGGTGTGGCTGACGACAACCTTCCACCATCGTAGTGTGTGGAGGAGGGCCGCGCCATCTACAAC
AACATGAAGCAGTTCATCCGCTACCTCATTTCTCCAACGTGGGCGAGGTGGTCTGTATCTTCTGACCCG
CTGCCCTGGGGCTGCCTGAGGCCCTGATCCCGGTGCAGCTGCTATGGGTGAACCTGGTGACCGAGGGCT
CCCAGCCACAGCCCTGGGCTTCAACCCACCAGACTGGACATCATGGACCGCCCCCGGGAGCCCCAAG
GAGCCCCATCAGTGGCTGGCTCTTCTCCGCTACATGGCAATCGGGGGCTATGTGGGTGCAGCCACCG
TGGGAGCAGCTGCCTGGTGGTCTGTACGCTGAGGATGGGCCTCATGTCAACTACAGCCAGTACTCA
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CCCATGACCATGGCCCTGTCGCTGCTGGTACCATCGAGATGTGCAATGCACTGAACAGCCTGTCCGAGA
ACCAGTCCCTGCTGCGGATGCCACCCTGGGTGAACATCTGGCTGCTGGGCTCCATCTGCCCTCCATGTC
CCTGCACTTCTCATCCTCTATGTTGACCCCTGCCGATGATCTTCAAGCTCCGGGCCCTGGACCTCACC
CAGTGGCTCATGCTCTCAAGATCTCACTGCCAGTCATTGGGCTCGACGAAATCCTCAAGTTCGTTGCTC
GGAACCTAGAGGGA TAA
    
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Restriction Sites: Sgfl-MluI

ACCN: NM_001286075

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:	<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_001286075.1, NP_001273004.1</u>
RefSeq Size:	3219 bp
RefSeq ORF:	2610 bp
Locus ID:	487
UniProt ID:	<u>O14983</u>
Cytogenetics:	16p11.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway
Gene Summary:	<p>This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms. [provided by RefSeq, Oct 2013]</p> <p>Transcript Variant: This variant (c) differs in the 5' UTR and coding sequence compared to variant a. The resulting isoform (c) is shorter at the N-terminus compared to isoform a.</p>