

Product datasheet for **SC123847**

SLC25A31 (NM_031291) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A31 (NM_031291) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A31
Synonyms:	AAC4; ANT 4; ANT4; SFEC35kDa
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_031291 edited
 AAGTGCCACTTTCTGCCAGTACGATGCTGCAGCGGTTTTCCGGTTTTCCGCTTCCCTTC
 ATCGTAGCTCCCCTACTCATTTTTAGCCACTGCTGCCGGTTTTATATCCTTCTCCATCA
 TGCATCGTGAGCCTGCGAAAAAGAAGGCAGAAAAGCGGCTGTTTGACGCCTCATCCTTCG
 GGAAGGACCTTCTGGCCGGCGGAGTCGCGGCAGCTGTGTCCAAGACAGCGGTGGCGCCCA
 TCGAGCGGGTGAAGCTGCTGCTGCAGGTGCAGGCGTCGTCGAAGCAGATCAGCCCCGAGG
 CGCGGTACAAAGGCATGGTGGACTGCCTGGTGGGATTCTCGCGAGCAGGGTTTTCTTCA
 GTTTTTGGCGTGGCAATTTGGCAAATGTTATTCGGTATTTTCCAACACAAGCTCTAAACT
 TTGCTTTTAAGGACAAATACAAGCAGCTATTCATGTCTGGAGTTAATAAAGAAAAACAGT
 TCTGGAGGTGGTTTTGGCAAACCTGGCTTCTGGTGGAGCTGCTGGGGCAACATCCTTAT
 GTGTAGTATATCCTCTAGATTTTGGCCGAACCGATTAGGTGTCGATATTGAAAAGGTC
 CTGAGGAGCGACAATTCAAGGGTTTAGGTGACTGTATTATGAAAATAGCAAAATCAGATG
 GAATTGCTGGTTATACCAAGGGTTTGGTGTTCAGTACAGGGCATCATTGTGTACCGAG
 CCTCTTATTTGGAGCTTATGACACAGTTAAGGGTTTATTACCAAGCCAAAGAAAACTC
 CATTTCTGTCTCCTTTTTTCATTGCTCAAGTTGTGACTACATGCTCTGGAATACTTTCTT
 ATCCCTTTGACACAGTTAGAAGACGTATGATGATGCAGAGTGGTGAGGCTAAACGGCAAT
 ATAAAGGAACCTTAGACTGCTTTGTGAAGATATACCAACATGAAGGAATCAGTTCCTTTT
 TTCGTGGCGCCTTCTCCAATGTTCTTCGCGGTACAGGGGGTCTTTGGTGTGGTATTAT
 ATGATAAAATTAAGAATTTTTCATATTGATATTGGTGGTAGGTAATCGGGAGAGTAA
 TTAAGAAATACATGGATTTAACTTGTAAACATACAAATTACATAGCTGCCATTTGCATA
 CATTTTGATAGTGTATTGTCTGATTTTGTAAAGTCTAGTTCTGCAATAAAGCATA
 ATTTTTCAAGAAATTAATACTAAAAATCAGATAAATGTGGATTTTCTCCACTTAGA
 CTCAACACATTTTAGTGTGATTTTTCATTTATTATAGTAGTATATTTTAAATTTGTTAG
 TTTAAAATTTCTTTTATGATTAATAAATTAATCATATAATCCTAGATTAATGCTGAAATCT
 AGGAAATGAAAGTAGCGTCTTTTAAATTGCTATTCATTTAATATACCTGTTTTCCCATCT
 TTTGAAGTCATATGGTATGACATATTTCTTAAAAGCTTATCAATAGATGTCATCATATGT
 GTAGGCAGAAATAAGCTTTGTTCTATATCTTCTTAAGACAGTTGTTATTACTGTGTATA
 ATATTTACAGTATCAGCCTTTGATTATAGATGTGATCATTTAAAATTTGATAATGACTTT
 AGTGACATTATAAACTGAACTGGAAAATAAAATGGCTTATCTGCTGATGTTTTATCTTT
 AAAATAAATAAAATCTTGCTAGTGTGAATACAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_031291 unedited
 AAAACGTCAGATTTTGTATACGACTTCACTATAGGCGGCCGCATAACTTCGTATAGCATA
 CATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAA
 GTGCCACTTTCTGCCAGTACGATGCTGCAGCGGTTTTCCGGTTTTCCGCTTCCCTTCAT
 CGTAGCTCCCCTACTCATTTTTAGCCACTGCTGCCGGTTTTATATCCTTCTCCATCATG
 CATCGTGAGCCTGCGAAAAAGAAGGCAGAAAAGCGGCTGTTTGACGCCTCATCCTTCGGG
 AAGGACCTTCTGGCCGGCGGAGTCGCGGCAGCTGTGTCCAAGACAGCGGTGGCGCCCATC
 GAGCGGGTGAAGCTGCTGCTGCAGGTGCAGGCGTCGTCGAAGCAGATCAGCCCCGAGGCG
 CGGTACAAAGGCATGGTGGACTGCCTGGTGGGATTCTCGCGAGCAGGGTTTCTTCAAGT
 TTTTGGCGTGGCAATTTGGCAAATGTTATTCGGTATTTTCCAACACAAGCTCTAAACTTT
 GCTTTTAAAGGACAAATACAAGCAGCTATTCATGTCTGGAGTTAATAAAGAAAAACAGTTC
 TGGAGGTGGTTTTGGCAAACCTGGCTTCTGGTGGAGCTGCTGGGGCAACATCCTTATGT
 GTAGTATATCCTCTAGATTTTGGCCGAACCGATTAGGTGTCGATATTGAAAAGGTCCT
 GAGGAGCGACAATTCAAGGGTTTAGGTGACTGTATTATGAAAATAGCANAATCAGATGGA
 ATTGCTGGTTTATACCAAGGGTTTGGTGTTCAGTACAGGGCATCATTGTGTACCGAGCC
 TCTTATTTTGGAGCTTATGACACAGTTAAGGGTTTATTACCNAAGCCAAAGAAACTC

Restriction Sites: Please inquire

ACCN: NM_031291

Insert Size: 1850 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:	<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_031291.1</u> , <u>NP_112581.1</u>
RefSeq Size:	1803 bp
RefSeq ORF:	948 bp
Locus ID:	83447
UniProt ID:	<u>Q9H0C2</u>
Cytogenetics:	4q28.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Calcium signaling pathway, Huntington's disease, Parkinson's disease
Gene Summary:	<p>The protein encoded by this gene is a member of the ADP/ATP carrier family of proteins that exchange cytosolic ADP for matrix ATP in the mitochondria. Cells over-expressing this gene have been shown to display an anti-apoptotic phenotype. This protein is also thought to play a role in spermatogenesis, where it is believed to associate with a part of the flagellar cytoskeleton and with glycolytic enzymes. Male mice with mutations in the mouse ortholog of this gene are sterile and spermatocytes display an early meiotic arrest phenotype. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>