

Product datasheet for **SC101210**

SLC25A6 (NM_001636) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A6 (NM_001636) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A6
Synonyms:	AAC3; ANT; ANT 2; ANT 3; ANT3; ANT3Y
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001636, the custom clone sequence may differ by one or more nucleotides

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ATGACGGAACAGGCCATCTCCTTCGCCAAGACTTCTTGGCCGGAGGCATCGCCGCCCATCTCCAAGA  
CGGCCGTGGCTCCGATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCACGCCAGCAAGCAGATCGCCG  
CGACAAGCAGTACAAGGGCATCGTGGACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGTCTCTTC  
TGGAGGGGCAACCTTGCCAACGTCATTGCTACTTCCCCACTCAAGCCCTCAACTTCGCCTTCAAGGATA  
AGTACAAGCAGATCTTCTGGGGGCGTGGACAAGCACACGCAGTTCTGGAGGTACTTTGCGGGCAACCT  
GGCCTCCGGCGGTGCGGCCGGCGGACCTCCCTCTGCTTCGTGTACCCGCTGGATTCGCCAGAACCCGC  
CTGGCAGCGGACGTGGGAAAGTCAGGCACAGAGCGGAGTTCCGAGGCCCTGGGAGACTGCCTGGTGAAGA  
TCACCAAGTCCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCGTGCAGGGCATCATCATCTA  
CCGGGCGGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGACCCCAAGAACACGCACATC  
GTGGTGAGCTGGATGATCGCGCAGACCGTGACGGCCGTGGCCGGCGTGGTGTCTACCCCTTCGACACGG  
TGCGGGCGGCATGATGATGCAGTCCGGGCGCAAAGGAGCTGACATGTACACGGGCACCGTCGACTG  
TTGGAGGAAGATCTTCAGAGATGAGGGGGCAAGGCCTTCTTCAAGGGTGCCTGGTCCAACGCTCTCGCG  
GGCATGGGGGCGCCTTCGTGCTGGTCTGTACGACGAGCTCAAGAAGGTGATCTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001636 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTCCAGGCGGCGGCAGGGCTG AGCCAGCGACGCCCTCCATTCACTCTCCGCGCCCGTTCTCCGGCTGTCTCCCGTTCCCG TGCCCCCCTGCCACCATGACGGAACAGGCCATCTCCTTCGCCAAAGACTTCTTGCCGG AGGCATCGCCGCCCATCTCCAAGACGGCCGTGGCTCCGATCGAGCGGGTCAAGCTGCT GCTGCAGGTCCAGCACGCCAGCAAGCAGATCGCCGCCGACAAGCAGTACAAGGGCATCGT GGACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGTCTTCTGGAGGGGCAACCT TGCCAACGTCATTGCTACTTCCCCTCAAGCCCTCAACTTCGCCTTCAAGGATAAGTA CAAGCAGATCTTCTGGGGGGCGTGGACAAGCACACGCAGTTCTGGAGGTAATTTGCGGG CAACCTGGCCTCCGGCGGTGCGGCCGGCGACCTCCCTCTGCTTCTGTGTACCCGCTGGA TTTCGCCAGAACCCGCTGGCAGCGGACGTGGGAAAGTCAGGCACAGAGCGGAGTTCCG AGGCCTGGGAGACTGCCTGGTGAAGATCACCAAGTCCGACGGCATCCGGNGCCTGTACCA GGGCTCAGTGTCTCCGTGCAGGGCATCATCA
Restriction Sites:	EcoRI-NOT
ACCN:	NM_001636
Insert Size:	3900 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:	<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_001636.1</u> , <u>NP_001627.1</u>
RefSeq Size:	1455 bp
RefSeq ORF:	897 bp
Locus ID:	293
UniProt ID:	<u>P12236</u>
Cytogenetics:	X;Y
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Calcium signaling pathway, Huntington's disease, Parkinson's disease

Gene Summary:

This gene is a member of the mitochondrial carrier subfamily of solute carrier protein genes. The product of this gene functions as a gated pore that translocates ADP from the cytoplasm into the mitochondrial matrix and ATP from the mitochondrial matrix into the cytoplasm. The protein is implicated in the function of the permeability transition pore complex (PTPC), which regulates the release of mitochondrial products that induce apoptosis. The human genome contains several non-transcribed pseudogenes of this gene. [provided by RefSeq, Jun 2013]