

Product datasheet for **SC321924**

SLC25A4 (NM_001151) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC25A4 (NM_001151) Human Untagged Clone
Tag: Tag Free
Symbol: SLC25A4
Synonyms: AAC1; ANT; ANT 1; ANT1; MTDPS12; MTDPS12A; PEO2; PEO3; PEOA2; T1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001151.2
 AGCGTCGCGCAGGGTCGGGGACTGCGCGCGGTGCCAGGCCGGCGTGGGCGAGAGCACG
 AACGGGCTGCCTGCGGGCTGAGAGCGTGCAGCTGTACCATGGGTGATCACGCTTGAGC
 TTCCTAAAGACTTCTGCGGGGGCGTCCCGCTGCCGTCTCAAGACCGCGGTGCGC
 CCCATCGAGAGGGTCAAACCTGCTGCTGCAGGTCCAGCATGCCAGCAAACAGATCAGTGCT
 GAGAAGCAGTACAAAGGATCATTGATTGTGGTGAATCCCTAAGGAGCAGGGCTTC
 CTCTCCTTCTGGAGGGTAACCTGGCCAACGTGATCCGTTACTTCCCCACCAAGCTCTC
 AACTTCGCCTTCAAGGACAAGTACAAGCAGCTCTTCTTAGGGGTGTGGATCGGCATAAG
 CAGTTCTGGCGTACTTTGCTGGTAACCTGGCGTCCGGTGGGGCCGCTGGGGCCACCTCC
 CTTTGCTTTGCTACCCGCTGGACTTTGCTAGGACCAGGTTGGCTGCTGATGTGGCAAG
 GCGGCCGCCAGCGTGAGTTCCATGGTCTGGGCGACTGTATCATCAAGATCTTCAAGTCT
 GATGGCCTGAGGGGGCTCTACCAGGTTTCAACGTCTCTGTCCAAGGCATCATTATCTAT
 AGAGCTGCCTACTTCGGAGTCTATGATACTGCCAAGGGGATGCTGCCTGACCCCAAGAAC
 GTGCACATTTTTGTGAGCTGGATGATTGCCAGAGTGTGACGGCAGTCCGAGGGCTGGTG
 TCCTACCCCTTTGACACTGTTTCGTAGAAATGATGATGCAGTCCGGCCGAAAGGGGCC
 GATATTATGTACACGGGACAGTTGACTGCTGGAGGAAGATTGCAAAAGACGAAGGAGCC
 AAGGCCTTCTTCAAAGGTGCCTGGTCCAATGTGCTGAGAGGCATGGGCGGTGCTTTTGTA
 TTGGTGTGTATGATGAGATCAAAAAATATGTCTAATGTAATTAACACAAGTTCACAG
 ATTTACAGTGAACCTGATCTACAAGTTCACAGATCCATTGTGGTTTAAATAGACTATTC
 CTAGGGGAAGTAAAAGATCTGGGATAAAACCAGACTGAAAGGAATACCTCAGAAGAGAT
 GCTTCATTGAGTGTTCATTAACACACATGATTTTTGATTTTATTTTACATTTAAATTC
 CCACAGCAAATAGAAAATAATTTATCATACTTGTACAATTAAGTGAAGAATTGATAATAA
 CTGAATGTGAAACATCAATAAAGACCACTTAATGCAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001151



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Insert Size:	1300 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:	NM_001151.2 , NP_001142.2
RefSeq Size:	1340 bp
RefSeq ORF:	897 bp
Locus ID:	291
UniProt ID:	P12235
Cytogenetics:	4q35.1
Domains:	mito_carr
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 forms a homodimer embedded in the inner mitochondria membrane. Mutations in this gene have been shown to result in autosomal dominant progressive external ophthalmoplegia and familial hypertrophic cardiomyopathy. [provided by RefSeq, Jun 2013]