

## Product datasheet for **SC112710**

### Adenine Nucleotide Translocator 2 (SLC25A5) (NM\_001152) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adenine Nucleotide Translocator 2 (SLC25A5) (NM_001152) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adenine Nucleotide Translocator 2
Synonyms:	2F1; AAC2; ANT2; T2; T3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112710 sequence for NM_001152 edited (data generated by NextGen Sequencing)

```
ATGACAGATGCCGCTGTGTCCTTCGCCAAGGACTTCTGGCAGGTGGAGTGGCCGAGCC
ATCTCCAAGACGGCGGTAGCGCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCAT
GCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAGGCATTATAGACTGCGTGGTCCGT
ATTCCAAGGAGCAGGGAGTTCTGTCCTTCTGGCGCGGTAACCTGGCCAATGTCATCAGA
TACTTCCCACCCAGGCTCTTAACCTTCGCCTTCAAAGATAAATACAAGCAGATCTTCCTG
GGTGGTGTGGACAAGAGAACCCAGTTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGT
GGTGCCGAGGGCCACATCCCTGTGTTTTGTGTACCCTCTTGATTTGCCCGTACCCGT
CTAGCAGCTGATGTGGTAAAGCTGGAGCTGAAAGGGAATCCGAGGCCTCGGTGACTGC
CTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTAACGTGTCT
GTGCAAGGTATTATCATCTACCGAGCCGCTACTTCGGTATCTATGACACTGCAAAGGGA
ATGCTTCCGGATCCCAAGAACAACCTCACATCGTCATCAGCTGGATGATCGCACAGACTGTC
ACTGCTGTTGCCGGTTGACTTCCATCCATTTGACACTGTTCCGCCGCCGATGATGATG
CAGTCAGGGCGCAAAGGAACTGACATCATGTACACAGGCACGCTTGACTGCTGGCGGAAG
ATTGCTCGTGATGAAGGAGGCAAAGCTTTTTCAAGGGTGCATGGTCCAATGTTCTCAGA
GGCATGGTGGTCTTTTGTGCTTGTCTGTATGATGAAATCAAGAAGTACACATAA
```

Clone variation with respect to NM\_001152.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001152 unedited  
 ACTAATTTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGTCAAAGCC  
 GGTTCGGCCAGTCCCGTCTGCAGCAGTCTGCCTCTCTTTCAACATGACAGATGCC  
 GCTGTGCTCTCGCAAGGACTTCTGGCAGGTGGAGTGGCCGAGCCATCTCCAAGACG  
 GCGGTAGCGCCATCGAGCGGGTCAAGCTGCTGCTGCAGTGCAGCATGCCAGCAAGCAG  
 ATCACTGCAGATAAGCAATACAAAGGCATTATAGACTGCGTGGTCCGTATTCCCAAGGAG  
 CAGGGATTCTGTCTTCTGGCGCGGTAACTGGCCAATGTCATCAGATACTTCCCACC  
 CAGGCTCTTAACTTCGCCTTCAAAGATAAATACAAGCAGATCTTCTGGTGGTGTGGAC  
 AAGAGAACCCAGTTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGGTGGTGGCCAGGG  
 GCCACATCCCTGTGTTTTGTGTACCCTCTTGATTTGCCCGTACCCGTCTAGCAGCTGAT  
 GTGGGTAAGCTGGAGCTGAAAGGGAATCCGAGGCCCTCGGTGACTGCCTGGTTAAGATC  
 TACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTAACGTGTCTGTGCAGGGTATT  
 ATCATCTACCGAGCCGCTACTTCGGTATCTATGACACTGCANAGGGAATGCTTCCGGAT  
 CCCAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCCCCTGCTGTGCC  
 GGTTGACTNCCTATCCATTTGACACTGTTCCGCCCGCATGATGATGCAGTCAGGCCGCA  
 AAGAACTGACATATGTACACAGCACGCCTGACTGCTGCCGAGAATGCTCGTGATGAAGA  
 AGCAAAGCTTTTTCAAGGGGCATGTTCCATGTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001152 unedited  
 GCAATCTAGAGTCGAGTCTTTTTTTTTTTTTTTTTTTTTATTTTAGATATTTTTATTTCTCC  
 AAATTTGTTATTTATCAGGAGTGACTGAAATAAAAATACAATTGAGTCCCATCATCATCA  
 TCATGGAAATGGCTTTAAGAGAAAAGTGGTCCAGATGAATATTATTGCTTCCATTTTCAA  
 CCAGTAAATAGTTGCCACTGAGAAAAGTGCAGCCAGGAGTCTGTCAAGAATGCTCAAGAT  
 ATGTTATATAATACAACATGCCTGTTACAGGGGGAAAAATCCTAGGAAATAACTTATGT  
 GTACTTCTTGATTCATACATAACAAGACAAGCACAAAAGCACACCACCATGCCTCTGAGAAC  
 ATTTGGACCATGCACCTTGAAAAAGCTTTGCCTCCTTCATCACGAGCAATCTTCCGCCA  
 GCAGTCAAGCGTGCCTGTGTACATGATGTCAGTTCCTTTGCGCCCTGACTGCATCATCAT  
 GCGGCGGCGAACAGTGTCAAATGGATAGGAAGTCAACCCGGCAACAGCAGTGACAGTCTG  
 TGCGATCATCCAGCTGATGACGATGTGAGTGTCTTGGGATCCGGAAGCATTCCCTCTGC  
 AGTGTATAGATACCGAAGTATGCGGCTCGGTAGATGATAATACCCTGCACAGACAGCTT  
 AAAGCCCTGGAATTCCTTTCCAGCTTCCAGCTTTACCCACATCAGCTGCTAGACGGGTACG  
 GAGGCCCTCGAATTCCTTTCCAGCTTCCAGCTTTACCCACATCAGCTGCTAGACGGGTACG  
 GNNCAAATCAAGATGGTACACANACACAGGGATGGGGCCCTGCGCACACCAGATGCCA  
 GATTCCTGCAAGTATAGCCAAACTGGGTTCTTTGNCACACCACCAGAAAGATCTGCCTG  
 ATTATCTTTGAAGCGAGTTANAACCCCGTTGGGAATTATCTGATGACATGGCCAGGTT  
 ACCGGCCAAAGNACGTACTCCTGCTCCTGGGAATCGCACACCATTCTATGCCTTGTATGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001152

**Insert Size:**

1260 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001152.1</a> , <a href="#">NP_001143.1</a>
<b>RefSeq Size:</b>	1225 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	292
<b>UniProt ID:</b>	<a href="#">P05141</a>
<b>Cytogenetics:</b>	Xq24
<b>Domains:</b>	mito_carr
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Huntington's disease, Parkinson's disease
<b>Gene Summary:</b>	<p>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. Suppressed expression of this gene has been shown to induce apoptosis and inhibit tumor growth. The human genome contains several non-transcribed pseudogenes of this gene.[provided by RefSeq, Jun 2013]</p>