

## Product datasheet for **SC113721**

### SLC25A36 (NM\_018155) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A36 (NM_018155) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A36
Synonyms:	PNC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113721 sequence for NM_018155 edited (data generated by NextGen Sequencing)

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ATGAGCCAGAGGGACACGCTGGTGCATCTGTTTCCCGAGGATGTGGTGGTACAGTGGGA  
GCTATTCTGACATGTCCACTGGAAGTTGTAAAAACACGACTGCAGTCATCTTCTGTGACG  
CTTTATATTTCTGAAGTTCAGCTGAACACCATGGCTGGAGCCAGTGTCAACCGAGTAGTG  
TCTCCCGACCTTTCATTGCCTAAAGGTGATCTTGAAAAAGAAGGCCTCGTTCCTTG  
TTTAGAGGACTAGGCCCAATTTAGTGGGGTAGCCCCTCCAGAGCAATATACTTTGCT  
GCTTATTCAAACTGCAAGGAAAAGTTGAATGATGTATTTGATCCTGATTCTACCCAAGTA  
CATATGATTTTCAGCTGCAATGGCAGTTTTACTGCAATCACAGCAACCAACCCCATTTGG  
CTTATAAAGACTCGGTTACAGCTTGATGCAAGGAACCGCGGGAAAGGCGAATGGGTGCT  
TTTGAATGTGTTGTAAGTGTATCAGACAGATGGACTAAAAGGATTTTATAGGGGCATG  
TCTGCTTCATATGCTGGTATATCAGAGACTGTTATCCATTTTGTATTTATGAAAGTATA  
AAACAAAACACTGGAATATAAGACTGCTTCTACAATGGAAAATGATGAAGAGTCTGTG  
AAAGAAGCATCAGATTTTGTGGGAATGATGCTAGCTGCTGCCACCTCAAAAACCTGTGCC  
ACAACATAGCATATCCACATGTTGTAAGAACAAGACTACGTGAAGAGGGAAACAAAATAC  
AGATCTTTTTTTCAGACTCTATCTTTGCTTGTTCAGAAGAAGGTTATGGGTCTCTTTAT  
CGTGGTCTGACAACTCATCTAGTGAGACAGATTCCAAACACAGCCATTATGATGGCCACC  
TATGAATTGGTGGTTTACCTACTCAATGGATAG
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Clone variation with respect to NM\_018155.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_018155 unedited TCAAATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACGAGGCGCGCTTAGGCA GGCGGTGGCGCGGCTGGAGTGCCGCGGGGAGGGCTGTGCCGTTGCTTTCTGCAGCCGCA TCTCGGCAGCTCTCTCGCCGTCCCGGGGCGCTGTGCGTCTCCAGTCCGGGACCGAAG CCGCCTGCCGTAGCGGGCGCCAGATCCGCGTCCCGCTCAGCGGCCGGAGGACATGCGG GAGAGAGAATGAGCCAGAGGGACACGCTGGTGCATCTGTTTCCGGAGGATGTGGTGTA CAGTGGGAGCTATTCTGACATGTCCACTGGAAGTTGAAAAACACGACTGCAGTCATCTT CTGTGACGCTTTATATTTCTGAAGTTCAGCTGAACACCATGGCTGGAGCCAGTGTCAACC GAGTAGTGCTCCCGGACCTCTTCATTGCCTAAAGGTGATCTTGAAAAAGAAGGCCTC GTTCTTGTTTAGAGGACTAGGCCCAATTTAGTGGGGTAGCCCTTCCAGAGCAATAT ACTTTGCTGCTTATCAAAGTGAAGAAAAGTTGAATGATGATTTGATCCTGATTCTA CCCAAGTACATATGATTTAGCTGCAATGGCAGGCATTTACTGTACATTTCTCCGAGAA AAGAGTGAGATCGTGCATCTCATGCTCCCATCCGCAGGTCACCTCCTGTAGAAATATG GACTAACTTAAACCTCGTTTTACTGCAATCACAGCAACCAACCCATTTGGCTTATAAAG ACTCGTTACAGCTTGATGCAAGGAACCCGCGGAAAAGCGAATGGGTGCTTTTGAATG TGTTTCGTAAGTGTATCAGACAGATGGACTANNAGGGATTATAGGGCATGTCTGCTTC ATATGCTGGTATATCAGAGACTGTNATCCATTTTGTATTAATGAAGAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018155
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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_018155.1</a> , <a href="#">NP_060625.1</a>
<b>RefSeq Size:</b>	2001 bp
<b>RefSeq ORF:</b>	933 bp
<b>Locus ID:</b>	55186
<b>UniProt ID:</b>	<a href="#">Q96CQ1</a>
<b>Cytogenetics:</b>	3q23
<b>Domains:</b>	mito_carr
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**Gene Summary:**

Mitochondrial transporter that imports/exports pyrimidine nucleotides into and from mitochondria. Transports preferentially cytosine and uracil (deoxy)nucleoside mono-, di-, and triphosphates by uniport and antiport mechanism. Also transports guanine but not adenine (deoxy)nucleotides. Is inhibited strongly by pyridoxal 5'-phosphate, 4,7-diphenyl-1,10-phenanthroline, tannic acid, and mercurials (mercury dichloride, Mersalyl acid, p-hydroxymercuribenzoate). Participates in mitochondrial genome maintenance, regulation of mitochondrial membrane potential and mitochondrial respiration.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.