

Product datasheet for **SC111386**

SLC25A19 (NM_021734) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A19 (NM_021734) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A19
Synonyms:	DNC; MCPHA; MUP1; THMD3; THMD4; TPC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111386 sequence for NM_021734 edited (data generated by NextGen Sequencing)

```

ATGGTTGGCTATGACCCAAACCAGATGGCAGGAATAACACCAAGTTCCAGGTGGCAGTG
GCTGGGTCTGTGTCTGGACTTGTTACTCGGGCGCTGATCAGTCCCTTCGACGTCATCAAG
ATCCGTTTCCAGCTTCAGCATGAGCGCCTGTCTCGCAGTGACCCAGCGCAAAGTACCAT
GGCATCTCCAGGCCTCTAGGCAGATTCTGCAGGAGGAGGGTCCGACAGCTTTCTGGAAA
GGACACGTCCCAGCTCAGATTCTCTCCATAGGCTATGGAGCTGTCCAATTCTTGTCATTT
GAAATGCTGACGGAGCTGGTCCACAGAGGCAGCGTGACGACGCCCGGAATTCTCAGTG
CACTTTGTATGTGGTGGCTGGCTGCCTGTATGGCCACCCTCACTGTGCACCCCGTGGAT
GTTCTGCGCACCCGCTTTCAGCTCAGGGTGAGCCCAAGGTCTATAATACGCTGCGCCAC
GCCGTGGGGACCATGTATAGGAGCGAAGGCCCCAGGTTTTCTACAAAGGCTTGGCTCCC
ACCTTGATCGCCATCTTCCCCTACGCCGGCTGCAGTTCTTGTCTACAGCTCCTTGAAG
CACCTGTACAAGTGGGCCATACCAGCCGAAGGAAAGAAAAATGAGAACCTCCAAAACCTG
CTTTGTGGCAGTGGAGCTGGTGTATCAGCAAGACCCTGACATATCCGCTGGACCTCTTC
AAGAAGCGGTACAGGTTGGAGGGTTTGAGCATGCCAGAGCTGCCTTTGGCCAGGTACGG
AGATAAAGGGCCTCATGGACTGTGCCAAGCAGGTGTACAAAAGGAAGGCGCCCTGGGC
TTCTTCAAGGGCCTGTCCCCAGCTTGTGAAGGCTGCCCTCTCCACAGGCTTCATGTTCT
TCTCGTATGAATTCTTGTGAATGTCTTCCACTGCATGAACAGGACAGCCAGCCAGCGC
TGA

```

Clone variation with respect to NM_021734.4
339 t=>c;819 g=>a



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_021734 unedited TCAAAATTTTGTAAACGACTTACTATTAGGGCGGCCGGAATTCGCACGAGGGCCGGGCC GCACCCGCCGAGCCGTCCCTTCTCCCTGTGATCAGTTACCAACTACCTGTTGATGTGTG GGTTACAGACTTCTTTCTATGCTTTGTACAACCTACAGACCGTATCTTGATACTGATGG ACATTGTGTGGGCCAGAGGCAGGATGGTTGGCTATGACCCCAAACAGATGGCAGGAAT AACACCAAGTTCCAGGTGGCAGTGGCTGGGCTGTGTCTGGACTTGTTACTCGGGCGCTG ATCAGTCCCTTCGACGTATCAAGATCCGTTTCCAGCTTCAGCATGAGCGCCTGTCTCGC AGTGACCCCGAGCGCAAAGTACCATGGCATCCTCCAGGCCTTAGGCAGATTCTGCAGGAG GAGGGTCCGACAGCTTTCTGAAAGGACACGTCCAGCTCAGATTCTCTCCATAGGCTAT GGAGCTGTCCAATTCTTGTCAATTTGAAATGCTGACGGAGCTGGTCCACAGAGGCAGCGTG TACGACGCCCGGAATTCTCAGTGCACCTTGTATGTGGTGGCCTGGCTGCCTGTATGGCC ACCCTCACTGTGACCCCGTGGATGTTCTGCGCACCCGCTTTCAGCTCAGGGTGAGCCC AAGGTCTATAATACGCTGCGCCACGCCGTGGGACCATGTATAGGAGCGAAGGCCCCCAG GTTTTCTACAAGGCTTGGCTCCACCTTGATCGCATCTTCCCCTACGCCGGGCTGCAGTT CTCTTGCTACAGCTCCTTGAAGCACCTGTACAAGTGGGCCATACCAGCCGAAGGAAAGAA AATGAGAACCTNCAAACCTGCTTNNGTGACGGNAGNCTGGTGTATCAGCAGACCTGA CTATNCGCTGGACTCTCAGAACGCTAGGTTGTGGGAGAGGTTTGACATGCAAACCTGCTT GGCAGTTCGAAAAACAGGGCTCTATGCTGCNCAAAAGG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021734 unedited GCCCCCGCTTTTTAGNATCGAGTTTTTTTTTTTTTTTTTTTGTAGTGTAGCTTTAAGTCT ATTAAGAGTTGGAAAAACAGGCCAAGTGTAGGGACCTGACTCCTGCAAAGGGCCTACCG CACCCCTCTGCACTCAAGCAGCAGCCCCATCCAGACCAGGAGTGTGTTCTGTTCTCCTGG CAGGCACGGCTGACAAGCGCAGGATGGCGCCTGTTTCTTTGCAGTGCAGGCTGGCCAGA CGACAAACAGCACCTTCCTGCTCCTTCTCACTGTGTCCCTGGCTCACCATAGACCACGTC CTGCATTTCTCTGATTCTCTCATGGGGAGAGCCTGGACCTTCTGGTGGTGCCCCACCT GGGGGGGCTCAAGGCTGTACCTGTCTGGGGACCTGGCCTGCAGGGAAGGGCCAGACG GCACCTCTCAGTGGAGACTGAATCTTCTTCTTACGAGGCTGCCTCCAGGGCAGACCC GCGGTTCTTCTGCGCTCAAAGCTGGCTGGCTGTCTGCTCATGCACTGGAAGACCATT CAGAACAATTCATACCAGAATAACACGACCCCTGCGGACAGGCCACCCCTCACAAGCCCC CGGACGGCCCTTCCAGAAGCCCATCGCGCTTCTTCTGAGCCCCGCTTGGCACAAGC CATGACGGCCTTGTATTTCCCTACCTGGCCAAAGGAAGCTCTCGCATGCTCAAACCTTC ACCTGCATCCGCTTCTTGACCAAGTCCACCGGCTATTTACGCGCTTGTGTTGAAGACCCC AGCTCCCTCGCCCTACAGAAGGCTGTGAAGCTCTATTTCTTCTTCCCTTCGCCCCGATG GGCCCATTTACCGGGCTTCCAGGACCCGCAACCAGATCACCTGCCCCCGCGCACCGGA AAAATGCCAAACAAGGCGGGAGCCACACCTTTGATGAAAAGTGTGGGTCTCTCTCCTA TACATGGTCACAACGCGCTTGT
Restriction Sites:	NotI-NotI
ACCN:	NM_021734
Insert Size:	1510 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:

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_021734.3](#), [NP_068380.2](#)

RefSeq Size: 1651 bp

RefSeq ORF: 963 bp

Locus ID: 60386

UniProt ID: [Q9HC21](#)

Cytogenetics: 17q25.1

Domains: mito_carr

Protein Families: Druggable Genome

Gene Summary: This gene encodes a mitochondrial protein that is a member of the solute carrier family. Although this protein was initially thought to be the mitochondrial deoxynucleotide carrier involved in the uptake of deoxynucleotides into the matrix of the mitochondria, further studies have demonstrated that this protein instead functions as the mitochondrial thiamine pyrophosphate carrier, which transports thiamine pyrophosphates into mitochondria. Mutations in this gene cause microcephaly, Amish type, a metabolic disease that results in severe congenital microcephaly, severe 2-ketoglutaric aciduria, and death within the first year. Multiple alternatively spliced variants, encoding the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008]
 Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.