

Product datasheet for **SC322973**

SLC25A19 (NM_001126122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A19 (NM_001126122) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A19
Synonyms:	DNC; MCPHA; MUP1; THMD3; THMD4; TPC
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001126122, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGTTGGCTATGACCCCAAACCAGATGGCAGGAATAACACCAAGTTCCAGGTGGCAGTG GCTGGGTCTGTGTCTGGACTTGTACTCGGGCGCTGATCAGTCCCTTCGACGTCATCAAG ATCCGTTTCCAGCTTCAGCATGAGCGCCTGTCTCGCAGTGACCCAGCGCAAAGTACCAT GGCATCTCCAGGCCTCTAGGCAGATTCTGCAGGAGGAGGGTCCGACAGCTTTCTGGAAA GGACACGTCCCAGCTCAGATTCTCTCCATAGGCTATGGAGCTGTCCAATTCTTGTCATTT GAAATGCTGACGGAGCTGGTCCACAGAGGCAGCTGTATGACGCCCGGAATTCTCAGTG CACTTTGTATGTGGTGGCCTGGCTGCCTGTATGGCCACCCTCACTGTGCACCCCGTGGAT GTTCTGCGCACCCGCTTTGCAGCTCAGGGTGAGCCCAAGGTCTATAATACGCTGCGCCAC GCCGTGGGGACCATGTATAGGAGCGAAGGCCCCAGGTTTTCTACAAAGGCTTGGCTCCC ACCTTGATCGCCATCTTCCCCTACGCCGGGCTGCAGTTCTCTTGCTACAGCTCCTTGAAG CACCTGTACAAGTGGGCCATACCAGCCGAAGGAAAGAAAATGAGAACCTCCAAACCTG CTTTGTGGCAGTGGAGCTGGTGTATCAGCAAGACCCTGACATATCCGCTGGACCTCTTC AAGAAGCGGTACAGGTTGGAGGGTTTGAGCATGCCAGAGCTGCCTTTGGCCAGGTACGG AGATAAAGGGCCTCATGGAAGTGTGCCAAGCAGGTGCTGAAAAGGAAGGCGCCCTGGGC TTCTTCAAGGGCCTGTCCCCAGCTTGCTGAAGGCTGCCCTCTCCACAGGCTTCATGTTT TTCTCGTATGAATCTTCTGTAATGTCTTCCACTGCATGAACAGGACAGCCAGCCAGCGC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001126122
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.


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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_001126122.1, NP_001119594.1</u>
RefSeq Size:	1585 bp
RefSeq ORF:	963 bp
Locus ID:	60386
UniProt ID:	<u>Q9HC21</u>
Cytogenetics:	17q25.1
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>