

Product datasheet for **RC200868**

SLC25A19 (NM_021734) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC25A19 (NM_021734) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC25A19
Synonyms: DNC; MCPHA; MUP1; THMD3; THMD4; TPC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200868 representing NM_021734
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGGCTATGACCCCAAACCAGATGGCAGGAATAACACCAAGTTCAGGTGGCAGTGGCTGGGTCTG
TGTCTGGACTTGTACTCGGGCGCTGATCAGTCCCTTCGACGTCATCAAGATCCGTTTCCAGCTTCAGCA
TGAGCGCCTGTCTCGCAGTGACCCAGCGCAAAGTACCATGGCATCCTCCAGGCCTTAGGCAGATTCTG
CAGGAGGAGGGTCCGACAGCTTTCTGAAAGGACACGTCCAGCTCAGATTCTCTCCATAGGCTATGGAG
CTGTCCAATTCTGTCAATTTGAAATGCTGACGGAGCTGGTCCACAGAGGCAGCGTGTATGACGCCCGGA
ATTCTCAGTGCACCTTTGTATGTGGTGGCCTGGCTGCCTGTATGGCCACCTCACTGTGCACCCCGTGGAT
GTTCTGCGCACCCGCTTTCAGCTCAGGGTGAGCCCAAGGTCTATAATACGCTGCGCCACGCCGTGGGA
CCATGTATAGGAGCGAAGGCCCCAGGTTTTCTACAAAGGCTTGCTCCACCTTGATCGCCATCTTCCC
CTACGCCGGGCTGCAGTTCTCTTGCTACAGCTCCTTGAAGCACCTGTACAAGTGGCCATACCAGCCGAA
GGAAAGAAAAATGAGAACCTCCAAAACCTGCTTGTGGCAGTGGAGCTGGTGTATCAGCAAGACCTGA
CATATCCGCTGGACCTCTCAAGAAGCGGCTACAGGTTGGAGGGTTTGGAGCATGCCAGAGCTGCCTTTGG
CCAGGTACGGAGATAAAGGGCCTCATGGACTGTGCCAAGCAGGTGCTGCAAAAGGAAGGCCCTGGGC
TTCTTCAAGGGCCTGTCCCCAGCTTGTGAAGGCTGCCTCTCCACAGGCTTCATGTTCTTCTCGTATG
AATCTTCTGTAATGTCTTCCACTGCATGAACAGGACAGCCAGCCAGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

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_021734.4](#)

RefSeq Size: 1651 bp

RefSeq ORF: 963 bp

Locus ID: 60386

UniProt ID: [Q9HC21](#)

Cytogenetics: 17q25.1

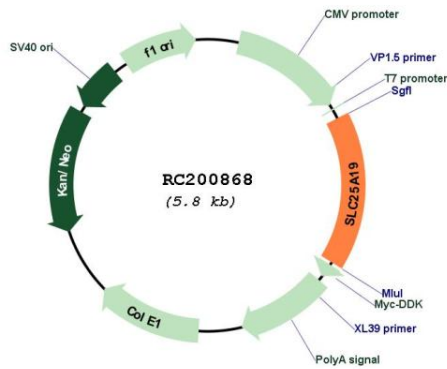
Domains: mito_carr

Protein Families: Druggable Genome

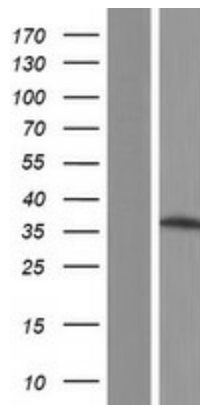
MW: 35.3 kDa

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]

Product images:



Circular map for RC200868



Western blot validation of overexpression lysate (Cat# [LY411928]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200868 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).