

Product datasheet for **SC313729**

SLC19A2 (NM_006996) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC19A2 (NM_006996) Human Untagged Clone
Tag: Tag Free
Symbol: SLC19A2
Synonyms: TC1; THMD1; THT1; THTR1; TRMA
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006996 edited
AACTGGGCGATCAGGCAGCGACCCTAGAGGCGTCTGTAGGGTAAAGCTGGGGTTCTGTA
GCCGGAGGCGGGCGGAGTCCAGAACGTCCTGGCCTTACAGGGAGAAGGCGTCACTCGCG
GTTACAAGTGCCTGACCCTCACTCCAGTTGGCGAGGAGAGAAGGAAGGGCCGGCCG
GGTCCCCTCCCCTCGCGCCCCGGATGGATGTGCCCGCCCGGTGTCTCGCGGGCGGCGG
CGGCGGGGCCACTGTGCTCCTGCGGACCCTCGGGTCCGTGCGGAATGCTGGTCTTGC
CGACCGCGCTGCTGCGCCTACGGCTTCTTCCGACGCTCAGGCCGTCGAGCCCTTCC
TGACCCCGTACCTGCTGGGGCCGACAAGAACCTGACCGAGAGGGAGGTCTTCAATGAAA
TTTATCCAGTATGGACTTACTCTTACCTGGTGCTACTGTTTCTGTGTTCTTCCACAG
ACTACCTCCGTTATAAACCCTGTTGTTCTACTGCAGGGGCTCAGCCTTATTGTTACATGGT
TTATGCTGCTCTATGCCAGGGACTGCTGGCCATTCAATTTCTAGAATTTTTTTATGGCA
TGCCACAGCCACTGAAATTGCCTATTACTCTTATATCTACA: GTGTGG: TGGACCTGGG
CATGTACCAGAAAAGTCAAAAGTTACTGTGAAAGTCCACTTTGGTGGGCTTTACAGTGGG
CTCTGTCTAGGGCAAATCCTTGTCTCAGTGGCAGGCTGGTGGCTGTTACGCCTGAATGT
CATCTCTTACCTGTGTTTCAGTGGCTTTTGTGCTGGCCTGGTTTTACCTATGCCACA
GAAGAGCCTCTTCTTCCACCACATTCTTCTACCTGCCAGAGAGTGAATGGCATCAAGGT
ACAAAAATGGTGGCATTGTTACTGACACCCAGCTTCTAACCACCTTCTGGCTGGGAGGA
CATTGAGTCAAAAATCCCTCTAAATATGGAGGAGCCTCCCGTGGAGGAACCGAAACCCAA
GCCAGACCGTCTCCTTGTATTGAAAGTACTATGGAATGATTTCCCTGATGTGCTACTCCTC
TCGCCCTTCTCTGCTGCTGTGTGGTGGGCCCTCTACCTGTGGCTATTTTCAAGT
TGTGAACTACACAGGGCCTGTGGGAGAAAGTATGCCTTCTCGCTATGCTGCTATCTA
TAATGGTGGCGTGGAGGCCGTTTCAACCTTACTGGGTGCTGTTGCTGTGTTTGCAGTTGG
TTATATAAAAATATCCTGGTCAACTTGGGGAGAAATGACATTATCTCTTTTTCTCTCCT
GATTGCTGCTGCAGTGTATCATGGACACTGTGGTAACATTTGGGTGTGCTATGCATC
CTATGTTGTCTTCAAGTATCATGTTACTCATCACGATAGCAACTTTTCAAATTGC
TGCAAACCTCAGCATGGAACGCTATGCCCTAGTATTTGGTGTAAATACCTTCATTGCCCT
GGCACTGCAGACGCTGCTCACTTAATTGTGGTAGATGCCAGTGGCCTTGGATTAGAAAT



[View online »](#)

TACCACTCAGTTTTTGATCTATGCCAGTTATTTTGCACCTCATCGCTGTGGTTTTCTGGC
 CAGTGGTGCAGTCAGTGTATGAAGAAATGTAGAAAGCTGGAAGATCCACAATCAAGTTC
 TCAAGTAACTTTCATAATACTGCTGAAGGGCTTCTTCTTATAGCAAGAAGTCTGCA
 CAGCAACTGCCTGGATGATTTGATTTTTAAAGCGTAGACATATATTTATGAATGTGCA
 TTTCTTGACTTCACAGCAGCCACTTGACTAATACCTTGTGTTCCGGGAATAACATGATAC
 TATTCAGAGGAGCCAGAAGTAAAGTTTATTTTCATGGATTATTTATGAGAGCTAATTTAAG
 GATGACTTTTTTCTGATTCAAAAGTGAAGTGAATTTAAAAACCAGTCAAGAGCAATCA
 AAGCAGCACATGGTGTGTATACTTCATTAGCAAGTGAGTTTGGTGTATAGGTCACA
 TATGTCTGTATCTACTTAGCCAGATGCTTGGCCTGGTGGGACCAGGGCTCCACAGAGGCC
 ACAAAATGTTGCAAGTCATGATGGATGGAATATGTTCTAACAGCATCTGCCTCTATTCA
 ATTTAATCTTATTTCTGTGTTACTCATGTACATTGGTCTTTCTACATAGTTATTCTATC
 ACTGGCAATATTTGTTCTGGTTAGTGTCTGTATTTAAGGTGTACGTATCATTCTAA
 TTTAAGTTATTTAAAAAATTCATCATATGAATGTTCTTGGTCCCATTGTGACGATT
 ATTTATTTCTGTAATTTGTTTAGAAGTACGTTTTTGCATTATTCATATGCTTCCCAGA
 GAAGCTCATTTAGTTAGAAAATAAGGCAAGTTTTGAAGCCTGCTAAATGAAGAGACTTAA
 GAAAGCTTAAGGTACGCTTGCTTGTCTTAAATCTTCAATATGAAGGACTATTAATCCA
 AGATTAAGTTCATATATAGGCTAAAGATGTAAGTACTAGGCCATTTGTATTTGATTCCCT
 TTTATTTCCAAAATAAAATGAAAATCTTTTTTAATAATTTTCATCCCTATTTATAGTTT
 TTATATTAATTTGTTTTCTTATCCAAGTAAAGATGTCAATAGGAATGCATTAGTCCAA
 GGCCTTTTTCATAAACTGAGCCTCTTTTCAATTTTCAATGGGACAGGAAGTACTAGATAG
 ATGTGATTCCTGCATTTTTTACCTTAAATCTGCCTTTGTTTCTAAAGGTAGATCATCTT
 GAATATTTGCTTAAAATGCTAGTGAATTCATTACCAAGTACTTGAAAAATGTTCTAT
 ATGCATTTAATTTGAAATCAGTCTACCAAGGGCTGCTAGTATATGTCAGACATGAAAA
 CTATTTTAAAGCTGACTTTGTTGCCTTATCTTGAAAAGAATCTAGATAGGTGCTTTTAAAC
 TGGGGTATTAACTTTTTGAATGACACAGCTGAACAGTGTAAATAATAGTGTGCAAGA
 TTGCAAAGTCGACATACTCATTTGGTTAAGCAGGAATCCTAGAAGCAAATGGATGGGGA
 TAAGAATAGGTCAATTTCTATTCACCATCCTTTACTATTAAGGGAAAGGAAAAGAAGCACT
 AGCTAAGGAAGGAAAGGGAAGTATATCATAAAAGTAGCAACCTTCATTTTACATTCTG
 TCTGTTTTCTTTTTGCTTTGTTTGTGCTAATTTGGGAATTGTGACTCCGAA
 ACAAGTAGAAAAGTGTGTTGAGGGATTTTAAATCTTTTTTAAATGGAATGTGGTA
 CAAATTTGTCATGTACCAAAGCAATTTCCCTGGAATTTAATTCAAAGTTTGTGGCAT
 ACAACCTGAGCCTTTTCTATATAAGACAAGAATATGTTACATCTTGGTATGTGGCCAT
 ATTTATAGAATGCTGAACTCAATGTGCAAGTGTACTGTATGCAGTTTTGTAAATAAGTG
 AAAATAATTTGTTGACTTTTTATTCAATTCTGTATAGATTATAAAATTTTATTTAA
 ATAAATATTTTACAGTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: NotI-NotI
ACCN: NM_006996
Insert Size: 3600 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_006996.1.

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_006996.1](#), [NP_008927.1](#)

RefSeq Size: 3668 bp

RefSeq ORF: 1494 bp

Locus ID: 10560

UniProt ID: [O60779](#)

Cytogenetics: 1q24.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes the thiamin transporter protein. Mutations in this gene cause thiamin-responsive megaloblastic anemia syndrome (TRMA), which is an autosomal recessive disorder characterized by diabetes mellitus, megaloblastic anemia and sensorineural deafness. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).