

## Product datasheet for **SC324186**

### SLC19A3 (NM\_025243) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC19A3 (NM_025243) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC19A3
Synonyms:	BBGD; THMD2; thTr-2; THTR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_025243.3  
 CGGCAAGTGAGCGATTTGGTGAACAGACACTCCCTTCTGTAGCCATGGATTGTTACAGAA  
 CTTCACTAAGCAGTTCTCGGATTTACCCCACTGTGATCCTCTGCTTATTTGGTTTTTCT  
 CCATGATGAGACCCTCAGAACCGTTCTTATCCCATATTTATCTGGACCAGATAAAAACC  
 TGACCAGTGCAGAGATAACAAATGAGATCTTCCCGTTTGGACATACTCTACCTGGTGC  
 TGCTGCTGCCTGTGTTTGTCTCACCGATTATGTCCGCTACAAGCCAGTCATCATCTTGC  
 AAGGTATCAGTTTCATCATTACCTGGCTGCTGTTGTTTGGCCAAGGAGTGAAGACCA  
 TGCAGGTTGTAGAGTTCTTCTATGGGATGGTCACCGCCGCCGAGGTGGCCTACTACGCCT  
 ACATATACAGCGTGGTCAGCCCCGAGCACTACCAGAGAGTGAGCGGCTACTGCAGGAGCG  
 TCACGCTGGCCGCTACACAGCAGGGTCGGTGGCTCAACTCTTGGTATCCCTGGCGA  
 ACATGTGCTACTTTTACCTCAACGTCATATCCTTGGCCTCTGTCTCCGTGGCTTTCCTTT  
 TCTCACTTTTCTACCAATGCCAAGAAAAGCATGTTTTTTCATGCAAAACCCAGCAGAG  
 AAATAAAGAAAGTCATCAAGCGTGAATCCAGTATTAGAGGAACTCACGAAGGTGAAGCAC  
 CAGGCTGTGAAGAGCAGAAACCCACATCAGAAATACTCAGCACTTCAGGGAAGCTGAATA  
 AGGGCCAGCTGAACAGCCTGAAACCAAGCAATGTGACTGTGGACGTTTTTGTGCAGTGGT  
 TCCAAGATTTGAAGGAGTGTACTCCTCAAACGCTTTTTCTACTGGTCTCTATGGTGGG  
 CTTTCGCCACAGCAGGTTTTAAACCAGGTTTTGAACTATGTTCAAATCCTGTGGGATTACA  
 AGGCGCCATCCCAAGATTCTCCATCTATAATGGGGCCGTAGAAGCTATTGCAACCTTTG  
 GAGGGGCTGTGGTGCCTTTCAGTGGGTTATGTGAAAGTCAACTGGGACCTTCTGGGAG  
 AGCTGGCTCTGGTGGTCTTCTCAGTTGTCAATGCCGGTCTTTATTTCTCATGCATTACA  
 CAGCCAATATCTGGGCGTCTATGCTGGCTATTTGATATTCAAGTCCAGCTATATGCTTC  
 TTATAACCATAGCAGTATTTAGATTGCAGTTAATCTGAATGTGGAACGCTATGCCTTGG  
 TATTTGGAATCAACACCTTTATTGCCTTGGTATTGAGTTCAGACCATGACTGTGATTGTAG  
 TAGATCAGAGAGGGCTCAACTTGCCAGTCAAGTTCAGTTTTTAGTTTTATGGGAGCTATT  
 TTGAGTAATTGCTGGAATTTTCTAATGAGAAGCATGTATATTACCTACTCAACCAAAT  
 CCCAGAAGGATGTACAGAGCCCTGCTCCAAGTGAAGTCCAGATGTGTCTCACCCAGAGG  
 AAGAGAGTAATATCATCATGTCAACAAAACCTAACCTCATCGCAACAAACGCAACAGTG  
 GCTTTCAAAGTTATGCAATAATAAGGAAAGATTTTGGATGGGTGGCATATGTTTTGCCA  
 TAACCTTGACATGCTTTGCAAATCTGGATTCCAATGGACCTTTCAAACCAACAACAAACC  
 TCAGTTTTAGATGAGTTCTCTATGTGACCAATTTTACTGGATGCAATTGACAGGACCCGT  
 CATCATAATTAACAACCCATATTGGGGACCCCTGTGACTAGTAGCAGCTGGAAAATTC  
 TGGTTTTTATCACTTGTAAAGACATGCAGATGGCGTGGAACCAAACCATGAGAAAACCTC  
 AGCCATCCTGGAGTTGATATACCATTGTGAGGAGAAAATACTAACTGGACTGACCCTA  
 TTGCTAGGCTTAAATACTTATTTGATCTTACCAAAGAAGTCAACACATGGGACCTTTGTG  
 TCACATGAACATTTTCTTCTCTTCTATTAAGTGTATTTCTGTTAAGTTACAGTTCT  
 CTAAGAGAATTACAATGTTTGTCCCATTTCTAAGGGCTTCTTCAACTCTAATAACAGC  
 ATTATTCAGTTAA  
 AA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_025243

**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.

<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>	<u><a href="#">NM_025243.3</a></u> , <u><a href="#">NP_079519.1</a></u>
<b>RefSeq Size:</b>	3775 bp
<b>RefSeq ORF:</b>	1491 bp
<b>Locus ID:</b>	80704
<b>UniProt ID:</b>	<u><a href="#">Q9BZV2</a></u>
<b>Cytogenetics:</b>	2q36.3
<b>Domains:</b>	Folate_carrier
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a ubiquitously expressed transmembrane thiamine transporter that lacks folate transport activity. Mutations in this gene cause biotin-responsive basal ganglia disease (BBGD); a recessive disorder manifested in childhood that progresses to chronic encephalopathy, dystonia, quadriparesis, and death if untreated. Patients with BBGD have bilateral necrosis in the head of the caudate nucleus and in the putamen. Administration of high doses of biotin in the early progression of the disorder eliminates pathological symptoms while delayed treatment results in residual paraparesis, mild cognitive disability, or dystonia. Administration of thiamine is ineffective in the treatment of this disorder. Experiments have failed to show that this protein can transport biotin. Mutations in this gene also cause a Wernicke's-like encephalopathy.[provided by RefSeq, Jan 2010]</p>