

Product datasheet for **SC313318**

Aminomethyltransferase (AMT) (NM_000481) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aminomethyltransferase (AMT) (NM_000481) Human Untagged Clone
Tag: Tag Free
Symbol: Aminomethyltransferase
Synonyms: GCE; GCST; GCVT; NKH
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000481 edited
 ATGCAGAGGGCTGTAAGTGTGGTGGCCCGTCTGGGCTTTGCGCTGCAGGCATTCCCCCG
 GCCTTGTGTCGTCCTACTTAGTTGCGCACAGGAGGTGCTCCGACAGACACCCTCTATGAC
 TTCCACCTGGCCACGGCGGAAAATGGTGGCGTTTGGCGGTTGGAGTCTGCCAGTGCAG
 TACCGGGACAGTCACTGACTCGCACCTGCACACACGCCAGCACTGCTCGCTCTTTGAC
 GTGTCTCATATGCTGCAGACCAAGATACTTGGTAGTGACCGGGTGAAGCTGATGGAGAGT
 CTAGTGGTTGGAGACATTGCAGAGCTAAGACCAACCAGGGGACACTGTCGCTGTTTACC
 AACGAGGCTGGAGGCATCTTAGATGACTTGATTGTAACCAATACTTCTGAGGGCCACCTG
 TATGTGGTGTCCAACGCTGGCTGCTGGGAGAAAGATTTGGCCCTCATGCAGGACAAGGTC
 AGGGAGCTTCAGAACCAGGGCAGAGATGTGGCCCTGGAGGTGTTGGATAATGCCCTGCTA
 GCTCTGCAAGGCCCACTGCAGCCAGGTAACAGGCCGGCGTGGCAGATGACCTGAGG
 AACTGCCCTTATGACCAAGTGTGATGGAGGTGTTTGGCGTGTCTGGCTGCCGCGTG
 ACCCGCTGTGGCTACACAGGAGAGGATGGTGTGGAGATCTCGGTGCCGGTAGCGGGGCA
 GTTACCTGGCAACAGCTATTCTGAAAAACCCAGAGGTGAAGCTGGCAGGGCTGGCAGCC
 AGGGACAGCCTGCGCCTGGAGGCAGGCCTGCTGTATGGGAATGACATTGATGAACAC
 ACTACCTGTGGAGGGCAGCCTCAGTTGGACTGGGGAAGCGCCGCCGAGCTGCTATG
 GACTTCCCTGGAGCCAAGGTCATTGTTCCCGAGCTGAAGGGCAGGGTGCAGCGGAGGCGT
 GTGGGGTTGATGTGTGAGGGGGCCCCATGCGGGCACACAGTCCCATCCTGAACATGGAG
 GGTACCAAGATTGGTACTGTGACTAGTGGCTGCCCTCCCCTCTCTGAAGAAGAATGTG
 GCGATGGGTTATGTGCCCTGCGAGTACAGTCGTCCAGGGACAATGCTGCTGGTAGAGGTG
 CGGCGGAAGCAGCAGATGGCTGTAGTCAGCAAGATGCCCTTTGTGCCACAACTACTAT
 ACCCTCAAGTGA

Restriction Sites: Please inquire
ACCN: NM_000481
Insert Size: 1600 bp



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| 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. |
| 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: | NM_000481.2 , NP_000472.2 |
| RefSeq Size: | 2117 bp |
| RefSeq ORF: | 1212 bp |
| Locus ID: | 275 |
| UniProt ID: | P48728 |
| Cytogenetics: | 3p21.31 |
| Domains: | GCV_T |
| Protein Pathways: | Glycine, serine and threonine metabolism, Metabolic pathways, Nitrogen metabolism, One carbon pool by folate |
| Gene Summary: | This gene encodes one of four critical components of the glycine cleavage system. Mutations in this gene have been associated with glycine encephalopathy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform 1). |