

Product datasheet for **SC326943**

Aminomethyltransferase (AMT) (NM_001164712) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aminomethyltransferase (AMT) (NM_001164712) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMT
Synonyms:	GCE; GCST; GCVT; NKH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326943 representing NM_001164712. Blue=Insert sequence Red=Cloning site Green=Tag(s)

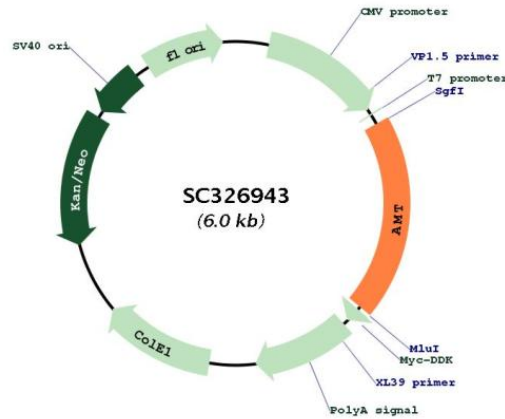
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCAGAGGGCTGTAAGTGTGGTGGCCCGTCTGGGCTTTCGCCTGCAGGCATTCCCCCGGCCTTGTGT
CGTCCACTTAGTTGCGCACAGGAGGTGCTCCGACAGGACACCGCTCTATGACTTCCACCTGGCCACGGC
GGGAAAATGGTGGCGTTTGGGTTGGAGTCTGCCAGTGCAGTACCGGGACAGTCACACTGACTCGCAC
CTGCACACAGCCAGCACTGCTCGCTTTGACGTGTCTCATATGCTGCAGACCAAGATACTTGGTAGT
GACCGGGTGAAGCTGATGGAGAGTCTAGTGGTTGGAGACATTGCAGAGCTAAGACCAAACAGGGGACA
CTGTCGCTGTTTACCAACGAGGCTGGAGGCATCTTAGATGACTTGATTGTAACCAATACTTCTGAGGGC
CACCTGTATGTGGTGTCCAACGCTGGCTGCTGGGAGAAAGATTTGCCCTCATGCAGGACAAGGTCAGG
GAGCTTCAGAACCAGGGCAGAGATGTGGCCCTGGAGGTGTTGGATAATGCCCTGTAGCTCTGCAAGGC
CCCACTGCAGCCAGGTACTACAGGCCGGCGTGGCAGATGACCTGAGGAACTGCCCTTCATGACCACT
GCTGTGATGGAGGTGTTTGGCGTGTCTGGCTGCCGCGTGACCCGCTGTGGCTACACAGGAGAGGATGGT
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TTGATGTGTGAGGGGGCCCATGCGGGCACACAGTCCCATCCTGAACATGGAGGGTACCAAGATTGGT
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TACAGTCGTCCAGGGACAATGCTGCTGGTAGAGCTTCCCTCAGGACCCTGCTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001164712

Insert Size: 1161 bp

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:

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_001164712.1](#)

RefSeq Size: 1955 bp

RefSeq ORF: 1161 bp

Locus ID: 275

UniProt ID: [P48728](#)

Cytogenetics:	3p21.31
Protein Pathways:	Glycine, serine and threonine metabolism, Metabolic pathways, Nitrogen metabolism, One carbon pool by folate
MW:	41.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate splice site in the 3' coding region that results in a frameshift compared to variant 1. The resulting protein (isoform 4) is shorter and has a distinct C-terminus compared to isoform 1.</p>