

Product datasheet for **RG228276**

Aminomethyltransferase (AMT) (NM_001164711) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aminomethyltransferase (AMT) (NM_001164711) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMT
Synonyms:	GCE; GCST; GCVT; NKH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228276 representing NM_001164711 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAGGGCTGTAAGTGTGGTGGCCGCTCTGGGCTTTCGCCTGCAGGCATTCACCCCGGCCTTGTGTC
GTCCACTTAGTTGCGCACAGACCAAGATACTTGGTAGTGACCGGGTGAAGCTGATGGAGAGTCTAGTGGT
TGGAGACATTGCAGAGCTAAGACCAAACCAGGGGACACTGTCGCTGTTTACCAACGAGGCTGGAGGCATC
TTAGATGACTTGATTGTAACCAATACTTCTGAGGGCCACCTGTATGTGGTGTCCAACGCTGGCTGCTGGG
AGAAAGATTTGGCCCTCATGCAGGACAAGGTCAGGGAGCTTCAGAACCAGGGCAGAGATGTGGCCCTGGA
GGTGTGGATAATGCCCTGCTAGCTCTGCAAGGCCCACTGCAGCCAGGTAACAGCCGGCGTGGCA
GATGACCTGAGGAACTGCCCTTCATGACCAGTGTGTATGGAGGTGTTTGGCGTGTCTGGCTGCCGCG
TGACCCGCTGTGGCTACACAGGAGAGGATGGTGTGGAGATCTCGGTGCCGGTAGCGGGGGCAGTTACCT
GGCAACAGCTATTCTGAAAAACCCAGAGGTGAAGCTGGCAGGGCTGGCAGCCAGGGACAGCCTGCGCCTG
GAGGCAGGCTCTGCCTGTATGGGAATGACATTGATGAACACACTACACCTGTGGAGGGCAGCCTCAGTT
GGACACTGGGGAAGCGCCGCGAGCTGCTATGGACTTCCCTGGAGCCAAGGTCATTGTTCCCAAGCTGAA
GGCAGGGTGCAGCGGAGCGTGTGGGTTGATGTGTGAGGGGGCCCCATGCGGGCACACAGTCCCATC
CTGAACATGGAGGTACCAAGATTGGTACTGTGACTAGTGGCTGCCCTCCCCCTCTCTGAAGAAGATG
TGGCGATGGTTATGTGCCCTGCGAGTACAGTCTCCAGGGACAATGCTGCTGGTAGAGGTGCGCGGAA
GCAGCAGATGGCTGTAGTCAGCAAGATGCCCTTTGTGCCCAAACTACTATACCCTCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228276 representing NM_001164711
 Red=Cloning site Green=Tags(s)

MQRAVSVVARLGFRLQAFPPALCRPLSCAQTKILGSDRVKLMESLVVGDIAELRPNQGTLSLFTNEAGGI
 LDDLIVTNTSEGLHYVVSNAGCWEKDLALMQDKVRELQNQGRDVGLEVLNALLALQGPTAAQVLQAGVA
 DDLRKLPMFMSAYMEVFGVSGCRVTRCGYTGEDGVEISVPVAGAVHLATAILKNPEVKLAGLAARDSLRL
 EAGLCLYGNDIDEHTTPVEGSLSWTLGKRRRAAMDFFGAKVIVPQLKGRVQRRRVGLMCEGAPMRAHSP
 LNMEGTKIGTVTSGCPSPLKKNVAMGYVPCYSRPGTMLLVEVRRKQQMAVVSMPFVPTNYITLK

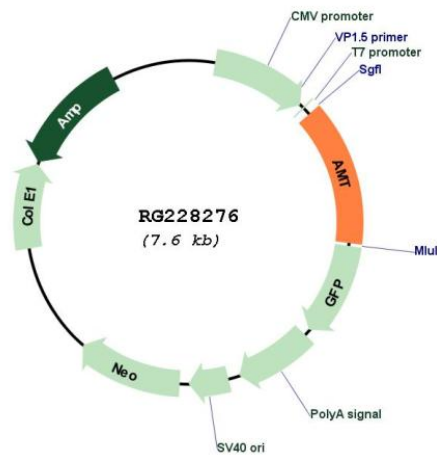
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164711

ORF Size: 1041 bp

OTI Disclaimer:	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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001164711.2
RefSeq Size:	2047 bp
RefSeq ORF:	1044 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
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]