

## Product datasheet for **MG225259**

### As3mt (NM\_020577) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	As3mt (NM_020577) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	As3mt
Synonyms:	2310045H08Rik; Cyt19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225259 representing NM_020577 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCTTCCCGAGACGCTGATGAGATCCACAAGGACGTTTCAGAACTACTATGGGAATGTAAGTGAAGA  
CATCTGCAGACCTCCAGACTAATGCTTGTGTACACGAGCCAAGCCGGTCCCCAGCTACATCCGGGAAAG  
TCTGCAGAATGTACACGAAGACGTTAGTTCGAGGTATTATGGCTGTGGTCTGACTGTTCTGAGCGGCTG  
GAAAACGCCGAATTTGGATCTGGGTAGTGGGAGTGGCAGGGATTGCTATGTGCTTAGCCAGCTGGTTG  
GTGAGAAGGGACATGTCACCGGAATAGACATGACTAAGGTCCAGGTCGAAGTGGCTAAAACCTATCTTGA  
ACACCACATGGAAAAATTTGGTTTCCAGGCACCAATGTGACTTTTCTCCACGGCCGCATCGAGAAGTTG  
GCAGAGGCTGGGATCCAGAGTGAGAGCTATGATATTGTCATATCCAAGTGTGTTATCAACCTTGTTCCTG  
ATAAACACAAGTCTCCAGGAGGTCTATCGAGTGTGAAGCAGCGCGGGGAGCTCTATTTCAAGTACGT  
CTATGCCAGCCTTGAAGTGCCAGAAGACATCAAGTCGCACAAAGTTTTATGGGGGAATGCCTGGGAGGC  
GCTCTGTACTGGAAGGATCTTGCCATCATTGCCAAAAGATTGGGTTCTGCCCTCCACGTTTGGTCACTG  
CCGATATCATTACTGTTGAAAACAAGGAGCTCGAAGGGTTCTTGGTACTGTCGCTTTGTGTCTGCCAC  
ATTTCCGCTCTTCAAACCTCCCTAAGACAGAGCCAGCCGAAAGATGCCGAGTTGTTACAATGGAGGAATC  
AAGGGACACGAAAAGGAATAATTTTCGATGCAAATTTACATTCGAAGGAAGCGAAGCTGTTGCAAGTGG  
ATGAGGAGACGGCAGCTGTCCTGAAGAAGTCCGCTTTTGGTCCGATTTTCTCTTACACCTGTTGACGC  
CTCGCTGCCAGCTCCCCAGGGCCGTTCTGAGTTAGAGACAAAGTTCTAATCAGAGATCCATTCAAGCTT  
GCAGAGGACTCTGACAAGATGAAGCCCAGACATGCACCTGAAGGCACGGGAGGCTGCTGTGGCAAGAGGA  
AAAACCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225259 representing NM\_020577  
 Red=Cloning site Green=Tags(s)

MAASRDADEIHKDVQNYGNVLKTSADLQTNACVTRAKPVPSYIRESLQNVHEDVSSRYGCGLTVPERL  
 ENCRILDLGSGSRDCYVLSQLVGEKGHVTGIDMTKVQVEVAKTYLEHHMEKFGFQAPNVTFLHGRIEKL  
 AEAGIQSESYDIVISNCVINLVPDKQQVLQEVYRVLKHGGELYFSDVYASLEVPEDIKSHKVLWGECLGG  
 ALYWKDLAIIAQKIGFCPPRLVTADIIITVENKELEGLGDCRFVSATFRLFKLPKTEPAERCRRVYNGGI  
 KGHEKELIFDANFTFKEGEAVVDEETAAVLKNSRFAPDFLFTVPDASLPAPQGRSELETKVLI RDPFKL  
 AEDSDKMKPRHAPEGTGGCCGKRKNC

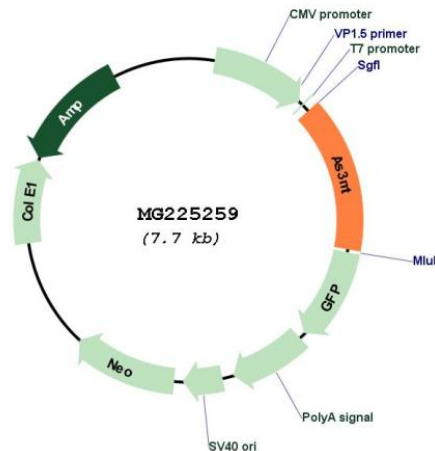
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_020577

<b>ORF Size:</b>	1128 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_020577.2</a> , <a href="#">NP_065602.2</a>
<b>RefSeq Size:</b>	1752 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	57344
<b>UniProt ID:</b>	<a href="#">Q91WU5</a>
<b>Cytogenetics:</b>	19 C3
<b>Gene Summary:</b>	Catalyzes the transfer of a methyl group from AdoMet to trivalent arsenicals producing methylated and dimethylated arsenicals. It methylates arsenite to form methylarsonate, Me-AsO(3)H(2), which is reduced by methylarsonate reductase to methylarsonite, Me-As(OH)2. Methylarsonite is also a substrate and it is converted into the much less toxic compound dimethylarsinate (cacodylate), Me(2)As(O)-OH.[UniProtKB/Swiss-Prot Function]