

## Product datasheet for **MC210138**

### As3mt (NM\_020577) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** As3mt (NM\_020577) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** As3mt  
**Synonyms:** 2310045H08Rik; Cyt19  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210138 representing NM\_020577  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCTTCCCAGACGCTGATGAGATCCACAAGGACGTTCAGAACTACTATGGGAATGTACTGAAGA  
 CATCTGCAGACCTCCAGACTAATGCTTGTGTACGCGAGCCAAGCCGGTCCCAGCTACATCCGGGAAAG  
 TCTGCAGAATGTACACGAAGACGTTAGTTCGAGGTATTATGGCTGTGGTCTGACTGTTCCCTGAGCGGCTG  
 GAAAACCTGCCGAATTTGGATCTGGGTAGTGGGAGTGGCAGGGATTGCTATGTGCTTAGCCAGCTGGTTG  
 GTGAGAAGGGACATGTCACCGGAATAGACATGACTGAGGTCCAGGTCCGAAGTGGTAAAACTATCTTGA  
 ACACCACATGGAAAAATTTGGTTTCCAGGCACCCAATGTGACTTTTCTCCACGGCCGCATCGAGAAGTTG  
 GCAGAGGCTGGGATCCAGAGTGAGAGCTATGATATTGTCATATCCAAGTGTGTTATCAACCTTGTTCCTG  
 ATAAACAACAAGTCTCCAGGAGGTCTATCGAGTGTGAAGCAGCGGGGAGCTCTATTTCAAGTACGCT  
 CTATGCCAGCCTTGAAGTGCCAGAAGACATCAAGTCGCACAAAGTTTTATGGGGGAATGCCTGGGAGGC  
 GCTCTGTACTGGAAGGATCTTGCCATCATTGCCAAAAGATTGGGTTCTGCCCTCCACGTTTGGTCACTG  
 CCGATATCATTACTGTTGAAAACAAGGAGCTCGAAGGGTTCTTGGTGACTGTCGCTTTGTGCTGCCAC  
 ATTTGCGCTCTTCAAACCTAAGACAGAGCCAGCCGAAAGATGCCGAGTTGTTTACAATGGAGGAATC  
 AAGGGACATGAAAAGGAATAATTTTCGATGCAAATTTACATTCAAGGAAGGCGAAGCTGTTGCAGTGG  
 ATGAGGAGACGGCAGCTGTCTGAAAGAACTCACGTTTTGCTCCGGATTTCTCTTACACCTGTTGACGC  
 CTCGCTGCCAGCTCCCAGGGCCGTTCTGAGTTAGAGACAAAGTTCTAATCAGAGATCCATTCAAGCTT  
 GCAGAGGACTCTGACAAGATGAAGCCCAGACATGCACCTGAAGGCACGGGAGGCTGCTGTGGCAAGAGGA  
 AAAACTGCT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



<b>ACCN:</b>	NM_020577
<b>Insert Size:</b>	1131 bp
<b>OTI Disclaimer:</b>	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).
<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]