

Product datasheet for **MC227437**

Asmt (NM_001199212) Mouse Untagged Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Asmt (NM_001199212) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Asmt |
| Synonyms: | Hio; Hiomt |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >MC227437 representing NM_001199212 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACAGGGGCCGCTCGGCCTCCGCCGCCAGGAGCGCGACTTCGGGGCCCTCATGGACCTGGCCACG
GCTTCATGGCCTCCAGGTGCTGTTGCGGGCTGCGCGCTCCGCGTGTTCGACGCCGCGGCCCTGGCC
CGTGGACGCCGCGCGCTGGCGAGGTCGTCGGCCTGAGCCCCGGGGACGCGGCTGCTGCTCGACGC
TGCGGGGGCTGGGCTGCTGCGGAGACGAGGGGGCGGGCCCTCGCGCCCGCTACACCAACTCCC
CCCTGGCGTCCACCTTCTGGTTCGCGGGCAGCCCTGTCTCAGCGCAGCCTCTGCTCTACCTGGCGGG
CACCACCTACCTGTGCTGGGGCACCTGGCGGACGGCGTGAGGGAAGGGCGGAGCCAGTACGCGAGGGCC
GTGGGCGTCGACGCGGACGACCCCTTACCGCCATCTACAGTTCGAGGGCCGAGCGCCTGCTGTTATGC
GGGCGCTCGAGGAGACCTGGAGCCTGTGCGGGGGCGGGTCTCACGGCCTTCGACCTCTCGCCCTTCAG
GGTCATCTGCGACCTCGGTGGTGGTCCGGGGCGCTGGCCCGCATGGCCGCCCGGCTTACCCGGGCAGC
GAGGTCACCGTGTTCGAGACGCCGACGTCGTCGCGCCGCCCGCGCCACTTCCCGCCCCAGCGGACG
AGGACGGGGCGGAGCCTCGTGTGCGCTTCTGTGAGGCGACTTCTCCGCTCGCCGCTGCCGCCCGCGA
CCTCTACGTCTGGCCCGGGTCTGCACGACTGGGCGGACGCCGCTGCGTGGAGCTGCTGCGGCGCGTG
CGGGCGCCCTGCGGCCAGGCGGCGGGTCTGCTGGTGGAGAGCGTGTCTCCCGGGAGGGGGCGGGG
CGACGCGGACGCTGCTGCTGCTGCTCACGATGCTGCTGACGCGCGGGGGCGCGAGCGCACGGAGGCCGA
GTACCGGGCGCTGACCGCGCGCGGGTCTTCCCGCCTGCGGCTGCGGCGCCCGCGGGGCCCTACCAC
GCCATGATGGCCGCCGGGGGGCGGGCCGGGCGCGGAGCGACGGCGCGGGGGACGCGACGTAC
AGACAGGAAGTGGGACAGGAAGTGGGTCGGCGCCAGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_001199212 |
| Insert Size: | 1164 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: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <u>NM_001199212.1</u> , <u>NP_001186141.1</u> |
| RefSeq Size: | 1273 bp |
| RefSeq ORF: | 1164 bp |
| Locus ID: | 107626 |
| UniProt ID: | <u>D3KU66</u> |
| Cytogenetics: | X |
| Gene Summary: | <p>This gene belongs to the methyltransferase superfamily and is located in the pseudoautosomal region (PAR) of the X and Y chromosomes. The encoded enzyme catalyzes the final reaction in the synthesis of melatonin and is abundant in the pineal gland. Two amino acid substitutions (R78G and R242C) are present in the encoded protein derived from the reference strain, C57BL/6J, and this protein shows low enzyme activity relative to the protein derived from other strains. [provided by RefSeq, May 2015]</p> <p>Transcript Variant: This variant (1) is based on a transcript from the C3H/HeJ strain and encodes an isoform (1) with high enzyme activity.</p> |