

Product datasheet for **MR229648**

Asmt (NM_001199212) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Asmt (NM_001199212) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Asmt
Synonyms: Hio; Hiomt
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229648 representing NM_001199212
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCACAGGGGCCGCTCGGCCTCCGCCCGCCAGGAGCGCGACTTCGGGGCCCTCATGGACCTGGCCACG
GCTTCATGGCCTCCAGGTGCTGTTCCGGGGCTGCGCGCTCCGCGTGTTCGACCGCGGGCCCTGGGCC
CGTGGACCGCGCGCGCTGGCGAGGTCGTCCGGCCTGAGCCCCGGGGGACGCGGCTGCTGCTCGACGCC
TGC CGCGGGCTGGGGCTGCTGCGGAGACGACGGGGGGCGGGCCCTCGCGGCCCGCTACACCAACTCCC
CCCTGGGCTCCACCTTCTGCTGCGGGGACGCCCTGTCTCAGCGCAGCCTCCTGCTCTACCTGGCGGG
CACCACCTACCTGTGCTGGGGCACCTGGCGGACGGCGTGAGGGAAGGGCGGAGCCAGTACGCGAGGGCC
GTGGGCGTCGACGCGGACGACCCCTTACCGCCATCTACAGGTCGGAGGCCGAGCGCCTGCTGTTTCATGC
GGGGCTCGAGGAGACCTGGAGCCTGTGCGGGGGCGGGTCTCACGGCCTTCGACCTCTCGCCCTTCAG
GGTCATCTGCGACCTCGGTGGTGGTCCGGGGCGCTGGCCCGCATGGCCGCCCGGCTCTACCCGGGCGAG
GAGGTACCGTGTTCGAGACGCCGACGTCGTCGCCGCCCGCCGCCCCACTTCCCGCCCCAGCGGAGC
AGGACGGGGCGGAGCCTCGTGTGCGCTTCTGTGAGCGACTTCTCCGCTCGCCGCTGCCGCCCGCGGA
CCTCTACGTCCTGGCCCGGGTCTGCACGACTGGGCGGACGCCGCTGCGTGGAGCTGCTGCGGGCGGTG
CGGGGCGCCCTGCGGCCAGGCGGCGCGGTGCTGCTGTTGGAGAGCGTGTGTCGCCGGGAGGGGGCGGGG
CGACGCGGACGCTGCTGCTGTCGCTCACGATGCTGCTGCAGGCCCGGGGCGCGAGCGCACGGAGGCCGA
GTACCGGGCGCTGACCGCGCGCGCGGCTTCTCCGCTGCGGCTGCGCGGCCCGGGGGCCCTACAC
GCCATGATGGCCCGCGGGGGGGCGGGGCGGGGCGGGAGCGACGGCGGCGGGGGACGCGACGTCAC
AGACAGGAAGTGGGACAGGAAGTGGGTCGGCGCCAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229648 representing NM_001199212
Red=Cloning site Green=Tags(s)

MHRGRSASARQERDFRALMDLAHGFMASQVLFAGCALRVFDAAALGPVDAALARSSGLSPRGTRLLLLDA
 CAGLGLLRRRRGAGPRGPAYTNSPLASTFLVAGSPLSQRSLLLYLAGTTYLCWGHLDGVREGRSQYARA
 VGV DADDPFTAIYRSEAERLLFMRGLQETWSLCGGRVLTAFDLSPFRVICDLGGGSGALARMAARLYPGS
 EVTVFETPDVVAAARAHFPPPADEDGAEPVRVFLSGDFFRSPLPPADLYVLARVLHDWADAACVELLRRV
 RGALRPGGAVLLVESVLSPPGGAGPTRTLLLSLTMLLQARGRTEAEYRAL TARAGF SRLRLRRPRGPYH
 AMMAARGGGAGARSDGGGGDATSQTGS GTGSEVGAQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

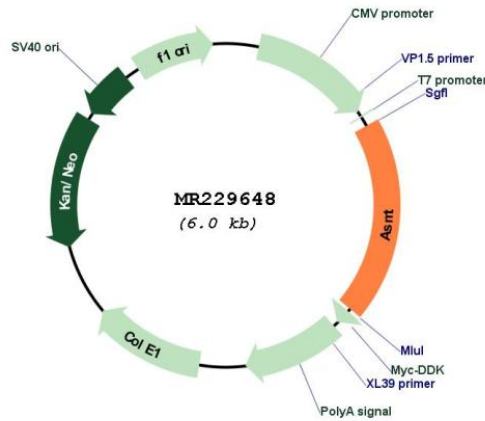
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199212

ORF Size:	1161 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_001199212.1 , NP_001186141.1
RefSeq Size:	1273 bp
RefSeq ORF:	1164 bp
Locus ID:	107626
UniProt ID:	D3KU66
Cytogenetics:	X
MW:	41.4 kDa
Gene Summary:	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]