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Product datasheet for MR225259

As3mt (NM_020577) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	As3mt (NM_020577) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	As3mt
Synonyms:	2310045H08Rik; Cyt19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR225259 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCTTCCCGAGACGCTGATGAGATCCACAAGGACGTTCAGAACTACTATGGGAATGTACTGAAGA
CATCTGCAGACCTCCAGACTAATGCTTGTGTCACACGAGCCAAGCCGGTCCCCAGCTACATCCGGGAAAG
TCTGCAGAATGTACACGAAGACGTTAGTTCGAGGTATTATGGCTGTGGTCTGACTGTTCCTGAGCGGCTG
GAAAACTGCCGAATTTTGGATCTGGGTAGTGGGAGTGGCAGGGATTGCTATGTGCTTAGCCAGCTGGTTG
GTGAGAAGGGACATGTCACCGGAATAGACATGACTAAGGTCCAGGTCGAAGTGGCTAAAACCTATCTTGA
ACACCACATGGAAAAATTTGGTTTCCAGGCACCCAATGTGACTTTTCTCCACGGCCGCATCGAGAAGTTG
GCAGAGGCTGGGATCCAGAGTGAGAGCTATGATATTGTCATATCCAACTGTGTTATCAACCTTGTTCCTG
ATAAACAACAAGTCCTCCAGGAGGTCTATCGAGTGCTGAAGCACGGCGGGGAGCTCTATTTCAGTGACGT
CTATGCCAGCCTTGAAGTGCCAGAAGACATCAAGTCGCACAAAGTTTTATGGGGGGAATGCCTGGGAGGC
GCTCTGTACTGGAAGGATCTTGCCATCATTGCCCAAAAGATTGGGTTCTGCCCTCCACGTTTGGTCACTG
CCGATATCATTACTGTTGAAAACAAGGAGCTCGAAGGGGTTCTTGGTGACTGTCGCTTTGTGTCTGCCAC
ATTTCGCCTCTTCAAACTCCCTAAGACAGAGCCAGCCGAAAGATGCCGAGTTGTTTACAATGGAGGAATC
AAGGGACACGAAAAGGAACTAATTTTCGATGCAAATTTCACATTCAAGGAAGGCGAAGCTGTTGCAGTGG
ATGAGGAGACGGCAGCTGTCCTGAAGAACTCGCGTTTTGCTCCGGATTTTCTCTTCACACCTGTTGACGC
CTCGCTGCCAGCTCCCCAGGGCCGTTCTGAGTTAGAGACAAAGGTTCTAATCAGAGATCCATTCAAGCTT
GCAGAGGACTCTGACAAGATGAAGCCCAGACATGCACCTGAAGGCACGGGAGGCTGCTGTGGCAAGAGGA
AAAACTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

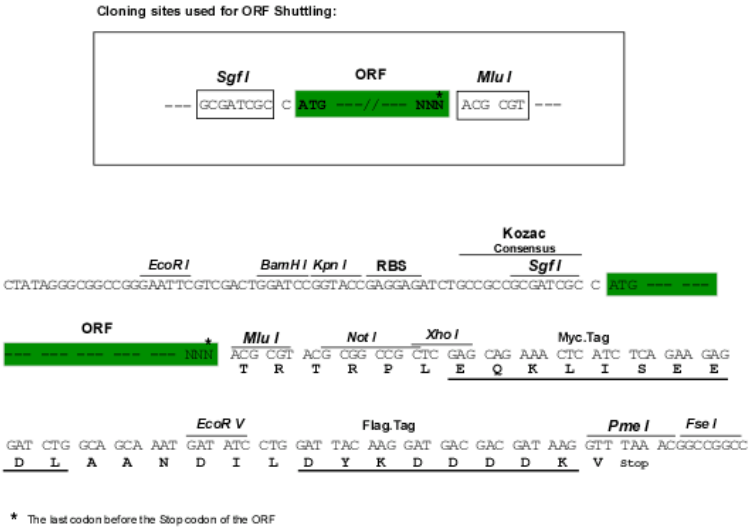
>MR225259 protein sequence
Red=Cloning site Green=Tags(s)

MAASRDADEIHKDVQNYYGNVLKTSADLQTNACVTRAKPVPSYIRESLQNVHEDVSSRYYGCGLTVPERL
ENCRILDLGSGSGRDCYVLSQLVGEKGHVTGIDMTKVQVEVAKTYLEHHMEKFGFQAPNVTFLHGRIEKL
AEAGIQSESYDIVISNCVINLVPDKQQVLQEVYRVLKHGGELYFSDVYASLEVPEDIKSHKVLWGECLGG
ALYWKDLAIIAQKIGFCPPRLVTADIITVENKELEGVLGDCRFVSATFRLFKLPKTEPAERCRVVYNGGI
KGHEKELIFDANFTFKEGEAVAVDEETAAVLKNSRFAPDFLFTPVDASLPAPQGRSELETKVLIRDPFKL
AEDSDKMKPRHAPEGTGGCCGKRKNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020577

ORF Size: 1131 bp

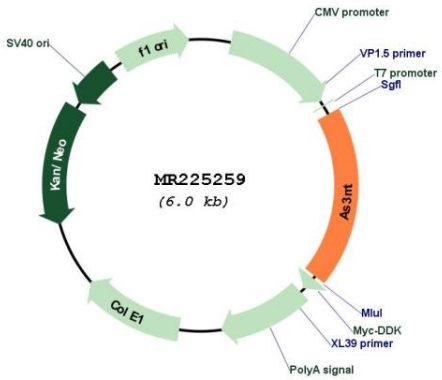
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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_020577.2, NP_065602.2
RefSeq Size:	1752 bp
RefSeq ORF:	1131 bp
Locus ID:	57344
UniProt ID:	Q91WU5
Cytogenetics:	19 C3
MW:	41.8 kDa
Gene Summary:	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]

Product images:



Circular map for MR225259