

Product datasheet for **MR216272**

Mettl2 (NM_172567) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Mettl2
Synonyms:	2810438F06Rik; AW493404; C130031G21Rik; D11ErtD768e; METL; PSENIPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR216272 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCTCCTTCCCTGAAGGCGTGCCGGAGACCGAGGACGGGAAGAGACCGCAGTTCGGGCACCGGT
TCCTGAGCGACCCGGCGCGCTCTTCCATCACAATGCCTGGGACAACGTGAAGTGGTCCGAGGAGCAGGC
CGCGGCGCGGAGAGGAAAGTGCAGGAGAACAGCTCCCGCTGGTGTGCCGGAGAAGCAAGTTGATTAT
GAAGTCAATGCCATAAATACTGGGATGACTTCTACAGAATCCATGAAAATGGGTTTTCAAGGATAGAC
ACTGGCTTTTACTGAGTTCCTGAATTGGCACCTAGCCACAGTCACCTGACGGGTGTACCTTGGAGAA
GCAGAGGAGTGACGTCTGTGAGGACGGACCTGGCTTGACAGCAGAACAGCACAAGTGTCTGTGCCAGC
CCTGGATGTGAGACTCAGGTGCCTCCCTTGAAGAGCCAGTGACTCAGAAGCTCGGTACCTAGAAATTA
GTGGTGAGGAATTTCTGGCTCCTCTGCCACCTACCGAATACTTGAGGTTGGTTGTGGTGTAGGAAACAC
AGTCTTTCCAATTTACAACTAACAATAACCCAAACCCCTTCGTTTACTGTTGTGACTTTTCTGCCACG
GCTATTGAACTGCTCAAGACAAATTCACAATATGATCCTTCTCGCTGTTATGCCTTTGTTTCATGATCTCT
GTGATGAAGATCAGAGTACCCAGTGCCTGAGGACAGTCTTGATGTCATCGTCTTATATTTGTTCTTTT
AGCAATTGTTCCAGACAAGATGCAGAAAGCGATCAGCAAGCTAAGCCGACTCCTGAAGCCTGGAGGGTG
ATGCTTCTTCGAGACTATGGCGCTATGACATGGCTCAACTTCGGTTAAGAAAGGTCAAGTGTCTATCTG
GAAACTTCTATGTGAGAGGTGATGGCACCAGAGTTTACTTCTTACACAAGGTGAGCTGGATACGCTCTT
CACCGCTGCTGGCCTGGAGAAGGTGCAGAACCTGGTGGATCGCCGCTTGCAAGTGAATCGAGGGAACAG
CTGACCATGTACCGCTCTGGATTCAAGTCAAAATACAGCAAGCCTTAGCACTCCGCTCCAGCCAACATG
TGCCCATTCACGACGACAGAAAGTCTTACATTTCGGGGCTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR216272 protein sequence
Red=Cloning site Green=Tags(s)

MAASFPEGPETEDGKRQPGFGRHFLSDPARVHFHNAWNVDKWSSEEQAAAAERKQENSSPLVCPEKQVDY
EVNAHKYWDFFYRIHENGFFKDRHWLFTFPELAPSHSLTGVPLEKQRSDVCDGPGLTAEQHKCSCAS
PGCETQVPPEEPVTQKLGHLETSGEFFPGSSATYRILEVGGVGNTVFPILQTNNPNPFVYCCDFSAT
AIELLKTSNQYDPSRCYAFVHDLCEDEQSPVPEDSLDVIVLIFVLSAIVPDKMQKAISKLSRLLPKGGV
MLLRDYGRYDMAQLKRLKQCSLGHVYVRGDGTRSSVYFTQGLDTLFTAAGLEKQVNLVDRRLQVNRGKQ
LTMRYVRWIOCKYKPLALKRSGNFIPIPHATESHHYFGL

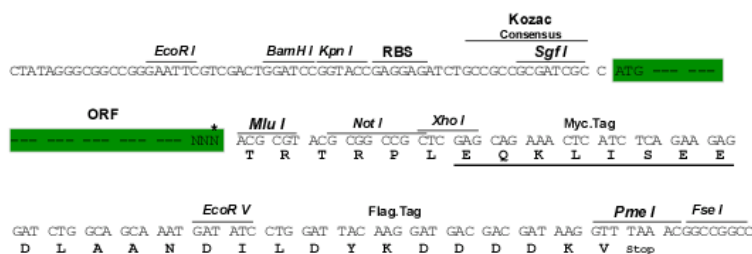
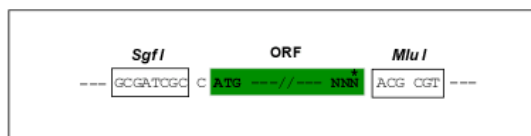
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_172567

ORF Size:

1167 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_172567.2](#)

RefSeq Size: 2619 bp

RefSeq ORF: 1170 bp

Locus ID: 52686

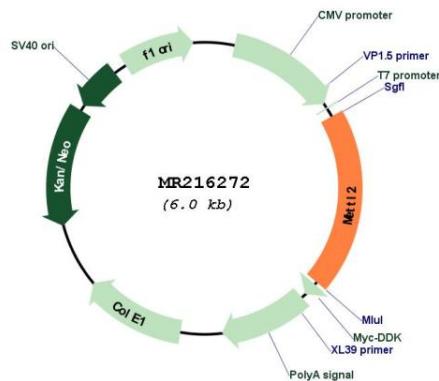
UniProt ID: [Q8BMK1](#)

Cytogenetics: 11 68.61 cM

MW: 43.9 kDa

Gene Summary: Probable S-adenosyl-L-methionine-dependent methyltransferase that mediates 3-methylcytidine modification of some tRNAs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216272