

Product datasheet for **MG216272**

Mettl2 (NM_172567) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Mettl2
Synonyms:	2810438F06Rik; AW493404; C130031G21Rik; D11ErtD768e; METL; PSENIPI
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG216272 representing NM_172567
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCTCCTCCCTGAAGGCGTGCCGGAGACCGAGGACGGGAAGAGACCGCAGTTCGGGCACCGGT
TCCTGAGCGACCCGGCGCGCTCTCCATCACAATGCCTGGGACAACGTGAAGTGGTCCGAGGAGCAGGC
CGCGGCGCGGAGAGGAAAGTGCAGGAGAACAGCTCCCCGCTGGTGTGCCGGAGAAGCAAGTTGATTAT
GAAGTCAATGCCATAAATACTGGGATGACTTCTACAGAATCCATGAAAATGGGTTTTCAAGGATAGAC
ACTGGCTTTTTACTGAGTTCCTGAATTGGCACCTAGCCACAGTCACCTGACGGGTGTACCCCTGGAGAA
GCAGAGGAGTGACGTCTGTGAGGACGGACCTGGCTTGACAGCAGAACAGCACAAGTGTCTGTGCCAGC
CCTGGATGTGAGACTCAGGTGCCTCCCTTGAAGAGCCAGTACTCAGAAGCTCGGTACCTAGAAATTA
GTGGTGAGGAATTCCTGGCTCCTCTGCCACCTACCGAATACTTGAGGTGGTTGTGGTGTAGGAAACAC
AGTCTTTCCAATTTACAACTAACATAACCCAAACCCCTTCGTTTACTGTTGTGACTTTTCTGCCACG
GCTATTGAACTGCTCAAGACAAATTCACAATATGATCCTTCTCGCTGTTATGCCTTTGTTTATGATCTCT
GTGATGAAGATCAGAGTACCCAGTGCCTGAGGACAGTCTTGATGTCATCGTCTTATATTTGTTCTTTT
AGCAATTGTTCCAGACAAGATGCAGAAAGCGATCAGCAAGCTAAGCCGACTCCTGAAGCCTGGAGGGTG
ATGCTTCTTCGAGACTATGGCCGCTATGACATGGCTCAACTTCGGTTAAGAAAGGTCAAGTGTCTATCTG
GAAACTTCTATGTGAGAGGTGATGGCACCAGAGTTTACTTCTTACACAAGGTGAGCTGGATACGCTCTT
CACCGCTGCTGGCCTGGAGAAGGTGCAGAACCTGGTGGATCGCCGCTTGCAGGTGAATCGAGGGAACAG
CTGACCATGTACCGCTCTGGATTCAAGTCAAAATACAGCAAGCCTTAGCACTCCGCTCCAGCCAACATG
TGCCCATCCCCACGCCACAGAAAGTCTTACATTGGGGCTTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG216272 representing NM_172567
 Red=Cloning site Green=Tags(s)

MAASFPEGVPETEDGKRPQFGHRFLSDPARVFHHNAWDNVKWSEEQAAAAERKVQENSSPLVCPKEKQVDY
 EVNAHKYWDDFYRIHENGFFKDRHWLFTFPELAPSHSLTGVPLEKQRSVDVCEGPGLTAEQHKCSCAS
 PGCETQVPPLEEPVTQKLGHLEISGEEFPGSSATYRILEVGGCVGNTVFPILQTNNNPNPFVYCCDFSAT
 AIELLKNSQYDPSRCYAFVHDLCEDEQSYVPVEDSLDVIVLIFVL SAI VPKMQKAI SKL S RLLK PGGV
 MLLRDYGRYDMAQLRFKKGQCLSGNFYVRGDGTRVYFF TQGELDTLFTAAGLEKVQNLVDRRLQVNRGKQ
 L TMYRVWIQCKYSKPLALRSSQHVP I PHATESSSHSGLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

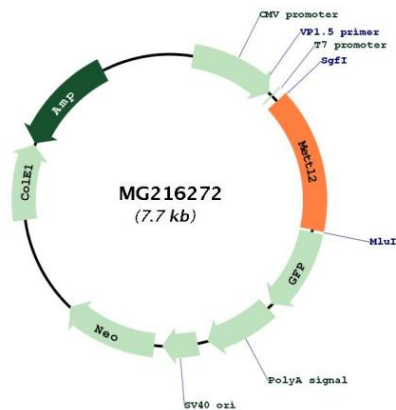
Locus ID: 52686

UniProt ID: [Q8BMK1](#)

Cytogenetics: 11 68.61 cM

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 MG216272