

Product datasheet for **MG203838**

Mtap (NM_024433) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mtap (NM_024433) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mtap
Synonyms: 1300019I21Rik; MSAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203838 representing NM_024433
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCTCGGGCTCCGCCTGCACGGCGGTGAAGATTGGAATAATTGGTGGAAACAGGCTTGGATGATCCCG
AAATTTTAGAAGGAAGAACTGAGAAATATGTGGATACTCCATTCGGCAAGCCATCCGATGCCTTAATTTT
GGGAAGATAAAGAACGTTGATTGTGTACTTCTTGAAGACACGGCAGACAACACACCATCATGCCTTCA
AAAGTCAACTACCAGGCAAACATCTGGCCTTGAAGGAAGAGGGCTGTACACATGTCATCGTGACCACAG
CTTGCGGGTCCTTGAGAGAGGAGATCCAGCCTGGTGACATGGTCATCATTGACCAATTCATTGACAGGAC
ATCCCTAAGGCCTCAGACCTTCTATGATGGGAGTCATTGCAAGTCCAGAGGAGTGTGCCACATCCCCATG
GCTGAACCGTTTTGCCCAAAACAAGAGAGGTCCTCATAGAACTGCTAAGAAGCTAGGACTTCGGTGCC
ATTCAAAGGGGACAATAGTCACAATTGAGGGGCCCGTTTCAGCTCCCGGGCAGAAAGCCTTATATTCGG
TACTTGGGGCGCAGATGTTGTCAACATGACCACTGTTCCAGAGGTGGTACTTGCTAAGGAGGCTGGAATT
TGCTATGCAAGCATTGCCATGGCAACCGACTATGATTGTTGGAAGGAGCATGAAGAAGCAGTGTCAAGTGG
ATGGGGTTTTAAAGACCATGAAAGAAAAAGCAATAAAGCCAAAAGTTTACTCCTCACTACTATACTCA
GATAGGGTCGATGGAATGGTCAGAAACGCTCCGTAACCTAAAGAACATGGCCAGTTTTCCGTTTTACCA
CCAAGACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203838 representing NM_024433
 Red=Cloning site Green=Tags(s)

MASGSACTAVKIGIIGTGLDDPEILEGRTEKYVDTPFGKPSDALILGKIKNVDCVLLARHGRQHTIMPS
 KVNYQANIWALKEEGCTHVIVTTACGSLREEIQPGDMVIDQFIDRTSLRPQTFYDGSCHSARGVCHIPM
 AEPFCPKTREVLIETAKKLGRLRCHSKGTIVTIEGPRFSSRAESLIFRTWGADVNNMTTVPEVVLAKEAGI
 CYASIAMATDYDCWKEHEEAVSVDGVLKTMKENANKAKSLLLLTTIPQIGSMEWSETLRNLKNMAQF SVLP
 PRH

TRTRPLE - GFP Tag - V

Restriction Sites:

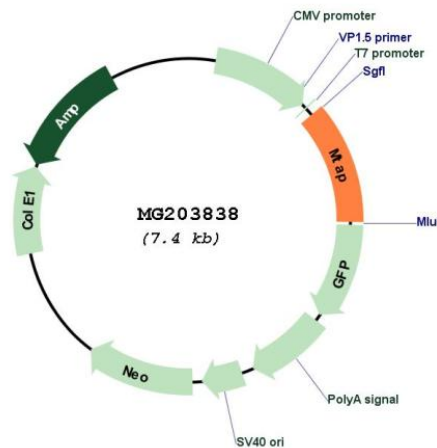
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024433

ORF Size: 849 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_024433.2
RefSeq Size:	2565 bp
RefSeq ORF:	852 bp
Locus ID:	66902
UniProt ID:	Q9CQ65
Cytogenetics:	4 C4
Gene Summary:	Catalyzes the reversible phosphorylation of S-methyl-5'-thioadenosine (MTA) to adenine and 5-methylthioribose-1-phosphate. Involved in the breakdown of MTA, a major by-product of polyamine biosynthesis. Responsible for the first step in the methionine salvage pathway after MTA has been generated from S-adenosylmethionine. Has broad substrate specificity with 6-aminopurine nucleosides as preferred substrates.[UniProtKB/Swiss-Prot Function]