

Product datasheet for **MG222396**

Gmps (NM_001033300) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmps (NM_001033300) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gmps
Synonyms:	670032; AA591640; AI047208; Gm9479
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222396 representing NM_001033300
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTGTGCAACGGAGATCCAAGCCGGAGAATGCTGGAGGAGATCTTAAGGATGGTTCTCACCATT
 ACGAAGGAGCTGTTGTCATTCTGGATGCTGGAGCCAGTATGGGAAAGTCATTGACCGAAGAGTGCGGGA
 GCTCTTTGTGCAGTCTGAAATCTCCATTGGAACACCCAGCCTTCGCCATAAAGGAACAAGGATTCGG
 GCTATTATCATATCTGGAGGACCTAATTCTGTGTATGCAGAGGATGCTCCCTGGTTTGATCCAGCAATAT
 TTACCATTGGCAAGCCTATTCTAGGAATTTGCTATGGCATGCAGATGATGAATAAAGTCTTTGGAGGCAC
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 AGGGCCCTGCAGAAGGAAGAAATGTTTTACTTACACATGGAGACAGTGTAGACAAAGTTGCTGATGGAT
 TCAAGTTGTAGCACGTTCTGGGAACATTGTGGCAGGTATAGCCAATGAATCTAAAAAGCTATACGGTGT
 ACAGTTCCACCCTGAAGTTGGGCTTACAGAAAATGGGAAGTAATACTGAAGAATTCCTGTATGATATA
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 TCGTGTCTTTGAACCAAGATCAAGTCATTGCTGTACACATTGATAATGGCTTTATGAGAAAACGAGAAAGC
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 GTAATTGGAGAAATGAGTCTGAAGCCCAGGAGGTTTTCTCGCCCAAGGCACCTTACGGCCTGATCTAA
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 GTCTATATCTTTGGTCCACCAGTTAAAGAGCCTCTACAGATGTTACTCCAATTTTTTGACAACAGGAG
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 TGCCAGAGGTCTGTGGTTATTGGAACCTTTATTACTAGTGACTTCATGACTGGTGTACCTGCAACACCTG
 GCAATGAGATTCCTGTAGAGGTGGTGTAAAGATGGTCACTGAGATAAAGAAGATTCTGGAAATTTCTAG
 AATTATGTATGACCTAATTCAAAGCCCCGGGAACCACTGAGTGGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG222396 representing NM_001033300
 Red=Cloning site Green=Tags(s)

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MALCNGDSKPENAGGDLKDGSHHYEGAVVILDAGAQYGKVIDRRVRELFVQSEIFPLETPAFAIKEQGFR
AIIISGGPNSVYAEDAPWFDPAIFTIGKPILGICYGMQMMNKVFGGTVHKKSVDREKGVFNISMDNTCSLF
RGLQKEEIVLLTHGDSVDKVDAGFKVVARSGNIVAGIANESKKLYGVQFHPEVGLTENGVILKNFLYDI
AGCSGNFTVQNRELECIKEIKVGTSKVLVLLSGGVDSTVCTALLNRALNQDQVI AVHIDNGFMRKRES
QSV EALKKLG IQVKVINA AHSFYNGTTLPISDEDRTPRKRISKTLNMTTSPEEKRKIIIGDTFVKIANE
VIGEMSLKPEEVFLAQGTLRDLIESASLVASGKAELIKTHHNDTELIRKLR EEGKVI EPLKDFHKDEV R
ILGRELDLPEELVSRHPFPGPLAIRVICA EEPYICKDFPETNNILKIVADFSASVKKPHTLLQRVKACT
TEEDQEKL MQITSLHSLNAFLLP IKT VGVQGDCRSYSYVCGISSKDEPDWESLIFLARLIPRMCHNINRV
VYIFGPPVKEPPTDVTPTFLT TGV LSTLRQADFEAHNILRESGFAGKISQMPVIL TPLHFRDRPLQKQPS
CQRSVVIRTFITSD FMTGVPATPGNEIPVEVVLKMVTEIKKIPGISRIMYDLTSKPPGTTEW
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033300

ORF Size: 2079 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_001033300.2](#), [NP_001028472.2](#)

RefSeq Size: 4567 bp

RefSeq ORF: 2082 bp

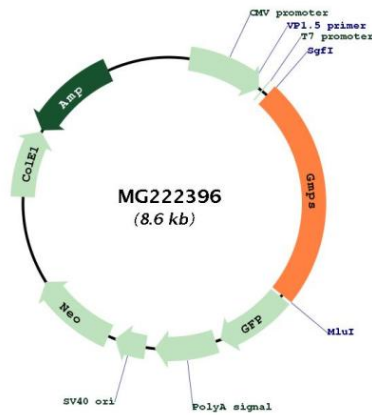
Locus ID: 229363

UniProt ID: [Q3THK7](#)

Cytogenetics: 3 E1

Gene Summary: Involved in the de novo synthesis of guanine nucleotides which are not only essential for DNA and RNA synthesis, but also provide GTP, which is involved in a number of cellular processes important for cell division.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222396