

Product datasheet for **MG205508**

Gmppb (NM_177910) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gmppb (NM_177910) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gmppb
Synonyms: AI317178; E430010H19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205508 representing NM_177910
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCACTGATCTTGGTGGGAGGGTATGGGACACGGTTGCGGCCGCTGACGTTGAGCACTCCGAAGC
CATTGGTGGACTTCTGCAATAAGCCCATCTTGTGCATCAAGTGGAGGCGCTTGTGCGGCAAGGTGTGGA
CCACGTGATCCTGGCAGTGAGCTACATGTCACAGATGTTGGAGAAGGAAATGAAGGCACAAGAGCAAAGG
CTTGGAATCCGAATCTCTATGTCTCATGAAGAGGAGCCTTTGGGACAGCTGGGCCTCTGGCCTTGCC
GAGACCTACTATCTGAGACTGCCGACCCTTTCTCGTTCTCAACAGTGATGTGATATGTGATTTCCCTT
CCAAGCCATGGTGCAGTTTCATCGGCACCATGGCCAAGAGGGCTCCATCTTGTTACCAAGTGGAGAG
CCTTCCAAGTATGGTGTGGTGGTATGTGAGGCTGACACAGGCCGATCCACCGTTTTGTTGAGAAGCCAC
AGGTGTTTGTGTCCAATAAGATCAACGCAGGCATGTACATCCTGAGCCCTGCTGTGCTGCAGCGCATCCA
GCTGAAGCCTACATCCATTGAGAAGGAGATCTTCCAGTTATGGCCAAGGAGGGGCGAGCTATATGCCATG
GAGCTGCAGGGCTTCTGGATGGACATTGGACAGCCCAAGGATTTCTCACTGGCATGTGCCTCTTCTAC
AATCGCTGAGACAGAAGCATCCAGAGAGACTGTACTCAGGCCCTGGCATTGTGGGAATGTACTTGTGGA
CCCAAGTGCCCGTATCGGTCAGAACTGCAGCATTGGCCCAATGTAAGCCTGGTCTGGTGTGGTGGT
GAGGATGGTGTGTCATCCGGCGATGCACAGTGTCTCGTGATGCTCACATCCGATCCCATCTTCTGGCTT
AGTCATGCATCGTGGCTGGCGCTGCCGTGTGGCCAATGGGTGCGCATGGAGAATGTAACAGTGCCTGG
TGAAGATGTCATAGTTAATGATGAAGTGTACCTCAATGGAGCCAGCGTGCTGCCCAAGTCTATCGGG
GAGTCAGTACCAGAACCTCGTATTATCATG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205508 representing NM_177910
Red=Cloning site Green=Tags(s)

MKALILVGGYGTRLRPLTLSTPKPLVDFCNKPILLHQVEALAAAGVDHVLAVSYMSQMLEKEMKAQEQR
 LGIRISMSHEEEPLGTAGPLALARDLLSETADPFFVLNSDVICDFPFQAMVQFHRHHGQEGSILVTKVEE
 PSKYGVVVCEADTGRIHRFVEKPVFVSNKINAGMYILSPAVLQRIQLKPTSIEKEIFPVMKEGQLYAM
 ELQGFWMDIGQPKDFLTGMCLFLQSLRQKHPERLYSGPGIVGNVLVDP SARIGQNC SIGPNVSLGPGVVV
 EDGVCIRRCTVLRDAHIRSHSWLESCIVGWRCRVGQWRMENVTLGEDVIVNDELYLNGASVLPKHSIG
 ESVPEPRIM

TRTRPLE - GFP Tag - V

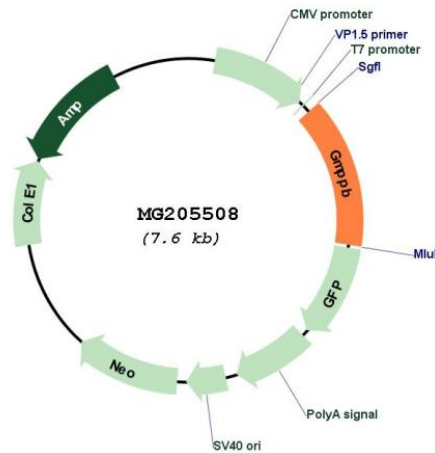
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_177910

ORF Size:	1080 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_177910.4
RefSeq Size:	1789 bp
RefSeq ORF:	1083 bp
Locus ID:	331026
UniProt ID:	Q8BTZ7
Cytogenetics:	9 F1
Gene Summary:	Catalyzes the formation of GDP-mannose, an essential precursor of glycan moieties of glycoproteins and glycolipids.[UniProtKB/Swiss-Prot Function]