

Product datasheet for MR205508

Gmppb (NM_177910) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmppb (NM_177910) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmppb
Synonyms:	A1317178; E430010H19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205508 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCACTGATCTTGGTGGGAGGGTATGGGACACGGTTGCGGCCGCTGACGTTGAGCACTCCGAAGC
CATTGGTGGACTTCTGCAATAAGCCCATCTTGTGCATCAAGTGGAGGCGCTTGTGCGGCAAGTGTGGA
CCACGTGATCCTGGCAGTGAGCTACATGTCACAGATGTTGGAGAAGGAAATGAAGGCACAAGAGCAAAGG
CTTGGAATCCGAATCTCTATGTCTCATGAAGAGGAGCCTTTGGGACAGCTGGGCCTCTGGCCTTGCC
GAGACCTACTATCTGAGACTGCCGACCCTTCTCGTTCTCAACAGTGATGTGATATGTGATTTCCCTT
CCAAGCCATGGTGCAGTTTCATCGGCACCATGGCCAAGAGGGCTCCATCTTGTTACCAAGTGGAGAG
CCTTCCAAGTATGGTGTGGTGGTATGTGAGGCTGACACAGGCCGATCCACCGTTTTGTTGAGAAGCCAC
AGGTGTTTGTGTCCAATAAGATCAACGCAGGCATGTACATCCTGAGCCCTGCTGTGCTGCAGCGCATCCA
GCTGAAGCCTACATCCATTGAGAAGGAGATCTTCCAGTTATGGCCAAGGAGGGGCGAGCTATATGCCATG
GAGCTGCAGGGCTTCTGGATGGACATTGGACAGCCCAAGGATTTCTCACTGGCATGTGCCTCTTCTAC
AATCGTGAGACAGAAGCATCCAGAGAGACTGTACTCAGGCCCTGGCATTGTGGGAATGTACTTGTGGA
CCCAAGTGCCCGTATCGGTCAGAACTGCAGCATTGGCCCAATGTAAGCCTGGTCTGGTGTGGTGGT
GAGGATGGTGTGTCATCCGGCGATGCACAGTGTTCGTGATGCTCACATCCGATCCCATCTTCTGGCTTG
AGTCATGCATCGTGGCTGGCGCTGCCGTGTGGGCAATGGGTGCGCATGGAGAATGTAACAGTGCCTGGG
TGAAGATGTCATAGTTAATGATGAAGTGTACCTCAATGGAGCCAGCGTGCTGCCCAAGTCTATCGGG
GAGTCAGTACCAGAACCTCGTATTATCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205508 protein sequence
Red=Cloning site Green=Tags(s)

MKALILVGGYGTRLRPLTLSTPKPLVDFCNKPILLHQVEALAAAGVDHVILAVSYMSQMLEKEMKAQEQR
 LGIRISMSHEEEPLGTAGPLALARDLLSETADPFFVLNSDVICDFPFQAMVQFHRHHGQEGSILVTKVEE
 PSKYGVVVCEADTGRIHRFVEKPVFVSNKINAGMYILSPA VLQR IQLKPTSIEKEIFPVMKEGQLYAM
 ELQGFWMDIGQPKDFLTGMCLFLQSLRQKHPERLYSGPGIVGNVLVDPSARIGQNC SIGPNVSLGPGVVV
 EDGVCIRRCTVLRDAHIRSHSWLESCIVGWRCRVGQWVRMENVTLGEDVIVNDELYLNGASVLPKHSIG
 ESVPEPRIIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_177910

ORF Size: 1083 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_177910.4](#)

RefSeq Size: 1789 bp

RefSeq ORF: 1083 bp

Locus ID: 331026

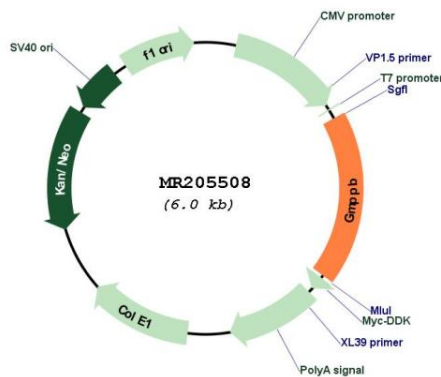
UniProt ID: [Q8BTZ7](#)

Cytogenetics: 9 F1

MW: 39.9 kDa

Gene Summary: Catalyzes the formation of GDP-mannose, an essential precursor of glycan moieties of glycoproteins and glycolipids.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205508