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Product datasheet for RR208007

Gmppa (NM_001025056) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmppa (NM_001025056) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmppa
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>RR208007 representing NM_001025056
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCAAAGCTGTGATCCTCATTGGAGGACCCCAGAAGGGGACTCGCTTCAGGCCTTTGTCTTTTGAAG
TGCCCAAACCGTTGTTCCCTGTGGCAGGTGTCCCTATGATCCAGCACCATATAGAAGCCTGTGCCCAGGT
CCCTGGGATGCAGGAGATTCTACTCATTGGCTTCTACCAGCCTGATGAGGCTCTCACCCAGTTCCTGGAA
GCTGCACAGCAGGAGTTTAACCTTCCAGTCAGGTATCTGCAGGAGTTCACTCCCCTTGGCACAGGGGGTG
GCCTCTACCATTTTCGGGACCAGATCCTGGCTGGCGCACCTGAGGCCTTCTTCGTGCTCAATGCTGATGT
CTGTTCTGACTTCCCTCTGAGTGCCATGTTGGATGCTCACAGGCTCCAACGCCACCCTTTCCTACTCCTT
GGCACCACGGCGAACAGGACACAATCTCTCAACTACGGCTGCATCGTTGAGAATCCACAGACGCATGAGG
TCCTGCACTATGTGGAGAAACCCAGCACCTTTATCAGCGACATCATCAACTGTGGCATCTACCTTTTCTC
CCCAGAAGCCCTGAAGCCTCTCCGGGATGTTTTCCAGCGTAATCAGCAGGATGGGCAACTGGAGGAATCT
CCAGGCTCCTGGCCTGGTGCAGGGACCATCCGACTAGAGCAGGATGTGTTCTCAGCCCTGGCTGGGCAGG
GCCAAATCTATGTGCACCTCACCGACGGCATCTGGAGCCAGATCAAGTCGGCAGGCTCGGCCCTTTATGC
TTCCCGCCTGTATCTGGGGCGATACCAGATCACCCACCCAGAACGGCTAGCCAGACACACTGCAGGGGGC
CCACGAATCAGAGGAAATGTTTACATCCATCCAACTGCTAAAGTGGCCCCATCAGCTGTGCTGGGCCCCA
ATGTCTCCATTGGGAAGGGGGTGACCATAGGCGAGGGTGTGCGTCTGCGGGAGAGTATTGTCCTCCATGG
AGCCACACTGCAGGAACACACCTGTGTCCTTCACAGCATTGTGGGCTGGGGGAGCACTGTGGGGCGCTGG
GCCCGCGTAGAGGGGACTCCCAATGACCCCAATCCCAATGACCCCCGCGCCCGCATGGACAGCGAGAGCC
TCTTCAAAGATGGAAAGCTACTTCCTGCCATCACCATCCTGGGCTGCCGAGTACGGATCCCCGCTGAGGT
GCTTATCTTGAACTCGATTGTTCTACCACATAAGGAGCTGAGTCGAAGCTTCACCAACCAAATCATTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

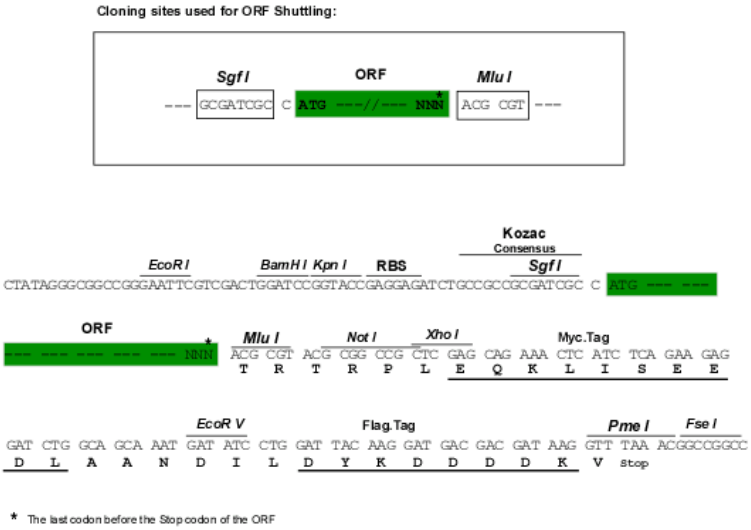
>RR208007 representing NM_001025056
Red=Cloning site Green=Tags(s)

MLKAVILIGGPQKGTRFRPLSFEVPKPLFPVAGVPMIQHHIEACAQVPGMQEILLIGFYQPDEALTQFLE
AAQQEFNLPVRYLQEFTPLGTGGGLYHFRDQILAGAPEAFFVLNADVCSDFPLSAMLDAHRLQRHPFLLL
GTTANRTQSLNYGCIVENPQTHEVLHYVEKPSTFISDIINCGIYLFSPEALKPLRDVFQRNQQDGQLEES
PGSWPGAGTIRLEQDVFSALAGQGQIYVHLTDGIWSQIKSAGSALYASRLYLGRYQITHPERLARHTAGG
PRIRGNVYIHPTAKVAPSAVLGPNVSIGKGVTIGEGVRLRESIVLHGATLQEHTCVLHSIVGWGSTVGRW
ARVEGTPNDPNPNDPRARMDSESLFKDGKLLPAITILGCRVRIPAEVLILNSIVLPHKELSRSFTNQIIL

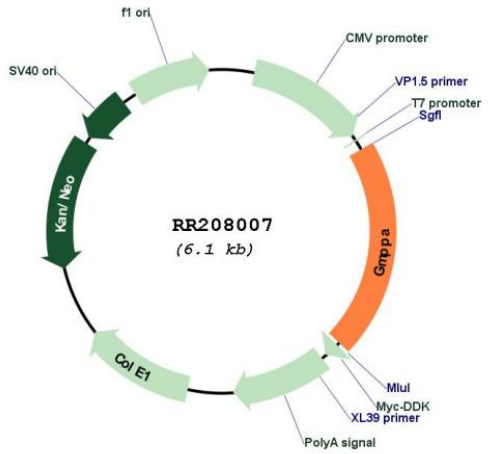
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025056

ORF Size:	1260 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_001025056.1, NP_001020227.1
RefSeq Size:	1662 bp
RefSeq ORF:	1263 bp
Locus ID:	501167
UniProt ID:	Q5XIC1
Cytogenetics:	9q33
MW:	46.2 kDa
Gene Summary:	May serve as a regulatory subunit and allow allosteric feedback inhibition of GMPPB by GDP-mannose.[UniProtKB/Swiss-Prot Function]