

Product datasheet for **RR212304**

Gmps (NM_001024754) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmps (NM_001024754) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmps
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212304 representing NM_001024754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGTGCAACGGAGATTCCAAGCCGGAGAATGCTGGAGGAGACCTTAAGGATGGTTGTCAACACT
 ACGAAGGAGCTGTTGTCATTCTGGATGCTGGGGCTCAGTATGGAAAAGTCATTGACCGAAGAGTGCGGGA
 GCTCTTTGTACAGTCTGAAATCTTTCCTTTGGAACACCAGCTTTTGCCATAAAGGAACAAGGATTCGG
 GCTATTATCATATCTGGAGGACCTAATTCTGTGTATGCAGAGGATGCTCCCTGGTTTGATCCAGCAATAT
 TTACCATTGGCAAGCCTGTCTAGGAATTTGCTATGGAATGCAGATGATGAATAAGGTTTTGGAGGCAC
 TGTGCATAAAAAAGTGTAGAGAGGATGGCGTTTTCAACATTAGTATGGACAATACATGTTTCATTGTTCC
 AGGGCCCTGCAGAAGGAAGAAATGTTTTACTTACACATGGAGACAGTGTAGACAAAGTAGCTGATGGAT
 TCAAGTTGTAGCTCGTCTGGGAACATTGTTGCAGGTATAGCCAATGAATCTAAGAAGCTATATGGTGT
 ACAGTTCCACCCTGAAGTTGGCCTTACAGAAAATGGAAAAGTAATACTGAAGAATTCCTATATGATATA
 GCTGGATGCAGTGGGAACCTTACTGTGCAGAACCAGAACTTGAGTGCATTTCGAGAGATTAAGAGAAAAG
 TAGGAACGTCAAAAGTGTGGTTTTACTCAGTGGTGGTGTAGATTCAACTGTTTGTACTGCTTTGCTAAA
 TCGTGTCTTGAACCAAGATCAAGTCATTGCTGTACACATTGATAATGGCTTTATGAGAAAACGAGAAAGC
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 GTCATTGGAGAAATGAGTCTGAAGCCAGAGGAGTTTTTCTTGCCCAAGGCATTTACGGCCTGATCTAA
 TCGAAAGTGCATCCCTTGTGCAAGCGCAAAGCTGAACCTCATCAAAACCACCACAACGACACAGAGCT
 TATCAGGAAGTTAAGGGAAGAGGGGAAAGTAATAGAACCCTGAAAGATTTTCATAAAGATGAAGTTAGG
 ATTTTAGGCAGAGAGCTTGACCTGCCAGAAGAATTGGTTTCCAGGCATCCTTTTCCAGGTCTGGCCTGG
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 ACCTGACTGGGAATCTCTTATTTTCTTGCCAGACTTATACCTCGAATGTGCATAACATTAACAGAGTT
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 AATCAGCCAGATGCCAGTGATTTTGACCCATTACATTTTCGATCGAGATCCACTTCAGAAGCAGCCTTCA
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 GCAATGAAATTCCTGTAGAGGTGGTGTAAAGATGGTCACTGAGATAAAGAAGATTCCTGGAAATTTCTAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212304 representing NM_001024754
 Red=Cloning site Green=Tags(s)

MALCNGDSKPENAGGDLKDGCHHYEGAVVILDAGAQYGKVIDRRVRELFVQSEIFPLETPAFAIKEQGFR
 AIIISGGPNSVYAEDAPWFDPAIFTIGKPVLGICYGMQMMNKVFGGTVHKKSVDREDFVNI SMDNTCSLF
 RGLQKEEIVLLTHGDSVDKVDGFKVVARSGNIVAGIANESKKLYGVQFHPEVGLTENGVILKNFLYDI
 AGCSGNFTVQNRELECI REIKEKVGTSKVLVLLSGGVDSTVCTALLNRALNQDQVI AVHIDNGFMRKRES
 QSV E E A L K K L G I Q K V I N A A H S F Y N G T T L P I S D E D R T P R K R I S K T L N M T T S P E E K R K I I G D T F V K I A N E
 V I G E M S L K P E E V F L A Q G T L R P D L I E S A S L V A S G K A E L I K T H H N D T E L I R K L R E E G K V I E P L K D F H K D E V R
 I L G R E L D L P E E L V S R H P F P G P L A I R V I C A E E P Y I C K D F P E T N N I L K I V A D F S A S V K K P H T L L Q R V K A C T
 T E E D Q E K L M E I T S Q H S L N A F L L P I K T V G V Q G D C R S Y S Y V C G I S S K D E P D W E S L I F L A R L I P R M C H N I N R V
 V Y I F G P P V K E P P T D V T P T F L T T G V L S T L R Q A D F E A H N I L R E S G Y A G K I S Q M P V I L T P L H F D R D P L Q K Q P S
 C Q R S V V I R T F I T S D F M T G V P A T P G N E I P V E V L K M V T E I K K I P G I S R I M Y D L T S K P P G T T E W E

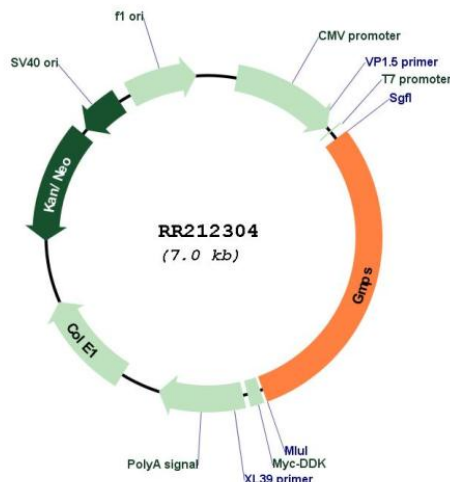
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001024754

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_001024754.1](#), [NP_001019925.1](#)

RefSeq Size: 2187 bp
RefSeq ORF: 2082 bp
Locus ID: 295088
UniProt ID: Q4V7C6
Cytogenetics: 2q31
MW: 76.8 kDa