

## Product datasheet for MR205742

### Gmids (NM\_146041) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gmids (NM_146041) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmids
Synonyms:	BC031788; C87208
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205742 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAAGCTCCCCTAAGTGCCCGAGCTACCCGGGCTCCGGGGATGGCGAGATGGGCAAGCTCAGGA  
AGGTGGCTCTCACTGGCATCACCGGACAGGATGGTTCGACTTGGCAGAATTCCTGTTGGAGAAAGG  
GTACGAGGTCCATGGAATAGTACGGCGATCTAGTTCATTAATACAGGTCGAATTGAACATTTATATAAG  
AATCCTCAGGCTCATATTGAAGGAAACATGAAGTTCACACTATGGTGACCTCACTGACAGCACCTGCCTAG  
TGAAAATCATCAATGAAGTCAAGCCTACAGAGATCTATAATCTTGAGCCAGAGCCATGTCAAGATCTC  
CTTTGACTTAGCTGAGTACACCGCAGATGTTGATGGCGTTGGCACCTTGGCGCTTCTGGATGCAATTA  
ACTTGTGGCCTTATAAATCTGTGAAGTCTACCAGGCCTCAACAAGTGAACCTTATGAAAAGTGCAGG  
AAATACCCAGAAAGGAGACCACCTTTCTATCCGAGGTACCCTATGGAGCAGCCAACTCTATGCCTA  
TTGGATTGTGGTGAATTTCCGTGAAGCTTATAATCTCTTTGCAGTGAATGGAATTCCTTCAATCATGAG  
AGTCCAGAAAGAGGAGCTAATTTGTTACTCGAAAAATAGCCGGTCACTAGCTAAGATTTACCTTGGAC  
AACTGGAATGTTTCAGCTTGGGAAATCTGGATGCCAAACGAGACTGGGGCCATGCCAAGGACTATGTAGA  
GGCTATGTGGCTCATGTTGCAGAATGATGAGCCAGAGGACTTTGTCATAGCTACTGGGGAAGTTCACAGT  
GTCCGTGAATTTGTTGAAAAGTCATTCATGCACATCGGAAAAACCATTGTGTGGGAAGGAAAGAAATGAAA  
ATGAAGTGGGCAGATGTAAGAGACCCGGCAAAGTTCACGTGACTGTGGATCTGAAATACTACCGACCGAC  
TGAAGTGGACTTTCTGCAGGGAGACTGCTCCAAGGCTCAGCAGAAGCTAACTGGAAGCCCCGCTTGCC  
TTTGACGAGCTGGTGAAGGAGATGGTGCAGGCCGACGTGGAGCTCATGAGGACCAACCCCAACGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205742 protein sequence  
Red=Cloning site Green=Tags(s)

MAQAPAKCPSYPGSGDGEMGKLRKVALITGITGQDGSYLAEFLLKGYEVHGIVRRSSSFNTGRIEHL YK  
 NPQAHIEGNMMLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHVKISFDLAEYTADV DGVGTLRL LDAIK  
 TCGLINSVKFYQASTSELYGKVQEI PQKETT P FYRSPYGA AKL YAYWIVVNFREAYNLFAVNGILFNHE  
 SPRRGANFVTRKISRVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWMLQNDPEPDFVIATGEVHS  
 VREFVEKFSMHIGKTI V WEGKNENEVGRCKETGKVHVTVDLKYRPT EVD FLQGDCKSAQQLNWKPRVA  
 FDELVREMVQADVLMRTNPNA

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\_146041

**ORF Size:** 1119 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\\_146041.2](#), [NP\\_666153.1](#)

**RefSeq Size:** 1510 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 218138

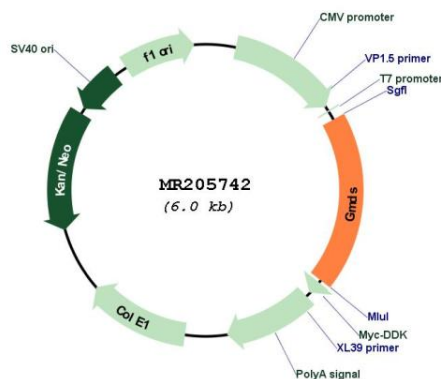
**UniProt ID:** [Q8K0C9](#)

**Cytogenetics:** 13 A3.2

**MW:** 42 kDa

**Gene Summary:** Catalyzes the conversion of GDP-D-mannose to GDP-4-dehydro-6-deoxy-D-mannose.  
[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR205742