

Product datasheet for MR205188

Gmpr (NM_025508) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmpr (NM_025508) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmpr
Synonyms:	2310004P21Rik; AV028449; GMPR 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205188 representing NM_025508 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCCGCATAGACGGGACCTTAAACTCGACTTCAAGGATGTTCTGCTGCGACCTAAGCGGAGCAGCC
TCAAGAGCCGATCCGAGGTGGATCTTGAGCGAACTTTTACATTTTCAAAGCTCGAAGCAAACCTACTCAGG
GATTCCCATCATTGTGGCCAACATGGACTGTGGGGACATTTGAGATGGCTGTGGTGATGTCACAGCAT
GCCATGTTTACAGCCGTTACAAGCACTACTCCCTGGATGACTGGAATGTTTTGCGGAAACCCACCCCG
AATGCCTGCAGCATGTAGCCGTGAGTTCTGGCAGCGGGCAGAATGATCTTGAGAGGATGAGCCGCATCTT
GGAAGCTGTGCCTCAGGTGAAGTTCATCTGCCTGGATGTGGCCAATGGGTATTCAGAGCATTTTGTGGAA
TTCGTGAAACTGGTCCGATCCAATTCCCCGAACACCATCATGGCAGGGAACGTGGTGACCGGAGAGA
TGGTGGAAAGACTCATCCTCTCTGGAGCAGATATCATCAAAGTGGGAGTCGGACCAGGTTCTGTGTGCAC
CACCCGAACCAAGACAGGAGTGGGCTACCCGCAGCTGAGTGCGGTGATAGAGTGTGCTGACTCCGCCAT
GGCCTCAAGGGGCACATCATCTGATGGAGGCTGCACATGTCCAGGAGATGTCGCCAAAGCCTTTGGAG
CTGGTGCAGACTTTGTCTGCTGGGAGGCATGTTTTAGGCCACACCGAGTGTGCAGGTGAGGTGATCGA
GAGGAACGGGCAGAAGCTGAAACTCTTCTATGGCATGAGCTCAGACACAGCCATGAAGAAACACGCAGGA
GGCCTCGCCGAGTACAGGGCCTCCGAGGGCAAGACCGTGAAGTGCCTTACAAAGGGGACGTGGAGAACA
CCATTCTGGATATCCTTGGAGGACTGCGCTCCACCTGTACCTACGTGCGGGCTGCCAAGCTCAAAGAGCT
CAGCAGGAGAGCCACGTTTCATCCGGGTGACCCAACAGCACAACACGGTGTGTTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR205188 representing NM_025508
Red=Cloning site Green=Tags(s)

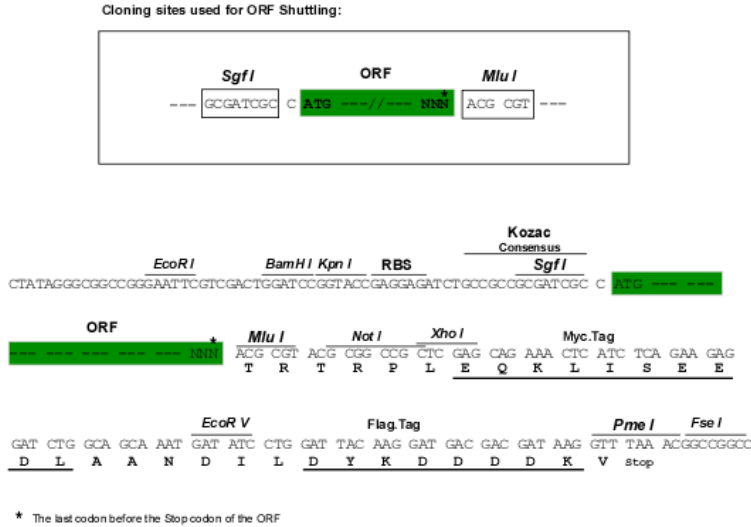
MPRIDADLKDFKDVLLRPKRSSLKSRSEVDLERTFTFRNSKQTYSGIPIIVANMDTVGTFEMAVVMSQH
 AMFTA VHKHYSLDDWKCF AETHPECLQHAVSSSGSQNDLERMSRILEAVPQVKFICLDVANGYSEHFVE
 FVKLVRSKFPEHTIMAGNVVTGEMVEELILSGADIKVGVPVSVCTTRTKTGVGYSQLSAVIECADSAH
 GLKGHIISDGGCTCPGDVAKAFGAGADFVMLGGMFSGHTECAGEVIERNGQKLKLFYGMSSDTAMKKHAG
 GVAEYRASEGKTVEVPYKGDVENTILDILGGLRSTCTYVGA AKL KEL SRRATFIRVTQHNTVFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9059_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_025508

ORF Size: 1035 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_025508.5](#), [NP_079784.1](#)

RefSeq Size: 1584 bp

RefSeq ORF: 1038 bp

Locus ID: 66355

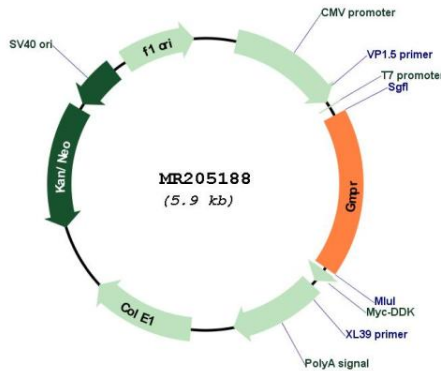
UniProt ID: [Q9DCZ1](#)

Cytogenetics: 13 A5

MW: 37.5 kDa

Gene Summary: A similar gene in human encodes an enzyme that catalyzes the irreversible and NADPH-dependent reductive deamination of GMP to IMP. The protein also functions in the re-utilization of free intracellular bases and purine nucleosides. [provided by RefSeq, May 2015]

Product images:



Circular map for MR205188