

## Product datasheet for **RR203317**

### Gmpr (NM\_057188) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gmpr (NM_057188) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmpr
Synonyms:	GMPR 1; Gmpr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203317 representing NM_057188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCCCGCATAGACGGACCTGAAACTCGACTTCAAGGATGTTTTGCTGCGACCTAACGGAGCAGCC  
TCAAGAGCCGATCCGAGGTGGACCTTGAGCGAACCTTTACGTTTCGAAACTCAAAGCAGACCTACTCAGG  
GATTCCTCGTCATCGTGGCCAACATGGACACCGTGGGACATTTGAGATGGCTGTGGTGATGTCACAGCAT  
GCCATGTTACAGCCATTACAAGCATTACTCCCTGGATGACTGGAAACATTTTCTGCTGAAAATCACCCCG  
AATGCCTGCAGCATGTAGCCGTGAGTTCTGGCAGCGGGCAGAATGATCTTGAGAAGATGAGCCTCATCTT  
GGAAGCTGTGCCTCAGGTGAAGTTCATCTGCCTGGATGTGGCCAATGGGTATTCGGAACATTTTGTGGAA  
TTCGTGAAACTGGTCCGATCCAAATTTCCCGAACACACCATCATGGCAGGGAACGTGGTACGGGGAGAGA  
TGGTGGAGGAGCTCATCTTTCTGGAGCAGATATCATCAAAGTGGGAGTCGGACCAGGCTCTGTGTGCAC  
CACCCGAACCAAGACAGGCGTGGGCTACCCGACGCTGAGCGCTGTGATAGAGTGTGCTGACTCAGCACAC  
GGCCTCAAGGGACACATCATCTCTGACGGAAGCTGCACATGTCCAGGAGATGTCGCCAAAGCCTTTGGAG  
CTGGCGCGGATTTTGTGTCATGCTGGGAGGCATGTTTTCCGGACACCCAGTGTGCAGGAGAGGTGATCGA  
GAGGAACGGGCAGAAGCTGAAGCTTTTCTACGGCATGAGCTCAGACACAGCCATGAAGAAACACGGCGGA  
GGCGTCGCTGAGTACAGGCGCTCTGAGGGCAAGACTGTGGAAGTGCCTTACAAAGGGGACGTAGAGAACA  
CAATTCTGGATATCCTTGGAGGACTTCGGTCTACCTGTACCTACGTGGGGCCCGCAAGCTCAAAGAGCT  
CAGTAGGAGAGCCACATTCATCCGCTGACCCAACAGCACAACACGGTGTTCGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203317 representing NM\_057188  
Red=Cloning site Green=Tags(s)

MPRIDADLKDFKDVLLRPKRSSLKSRSEVDLERTFTFRNSKQTYSGIPVIVANMDTVGTFEMAVMSQH  
 AMFTAIHKHYSLDDWKHFAENHPECLQHVAVSSGSGQNDLEKMSLILEAVPQVKFICLDVANGYSEHFVE  
 FVKLVRSKFPEHTIMAGNVVTGEMVEELILSGADIKVGVPVSVCTTRTKTGVGYPQLSAVIECADSAH  
 GLKGHIISDGSTCPGDVAKAFGAGADFVMLGGMFSGHTECAGEVIERNGQKLKLFYGMSSDTAMKKHAG  
 GVAEYRASEGKTVEVPYKGDVENTILDILGGLRSTCTYVGAALKKELSRATFIRVTQHNTVFG

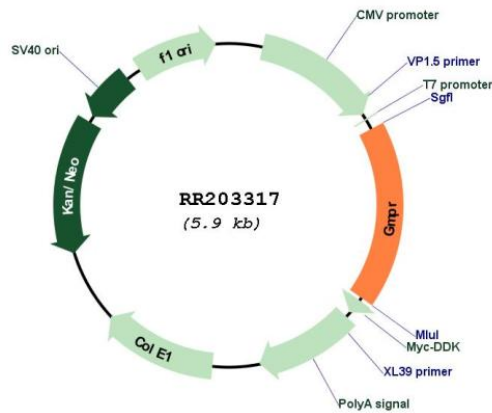
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_057188

**ORF Size:** 1035 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_057188.1</a> , <a href="#">NP_476536.1</a>
<b>RefSeq Size:</b>	1452 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	117533
<b>UniProt ID:</b>	<a href="#">Q9Z244</a>
<b>Cytogenetics:</b>	17p14
<b>MW:</b>	37.5 kDa
<b>Gene Summary:</b>	may convert guanine nucleotides to IMP and facilitate uncoupling protein-1 function in response to cold exposure [RGD, Feb 2006]