

Product datasheet for **RG203418**

GMPR2 (NM_001002000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPR2 (NM_001002000) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GMPR2
Synonyms:	GMPR 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203418 representing NM_001002000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCATATTGACAACGATGTGAACTGGACTTCAAGGATGTCCTTTGAGGCCCAAACGCAGTACCC
TTAAGTCTCGAAGTGAGGTGGATCTCACAAGATCCTTTTCATTTTCGAACTCAAAGCAGACATACTG
GGTCCCATTGCTGCCAATATGGATACTGTGGCACCTTTGAGATGGCCAAGTTCTCTGTAAGTTC
TCTCTTCACTGCTGCCATAAGCACTATAGCCTCGTTCAGTGGCAAGAGTTTGTGGCCAGAATCCTG
ACTGCTTGAGCATCTGGCTGCCAGCTCAGGCACAGGCTCTTCTGACTTTGAGCAGCTGGAACAGATCCT
GGAAGCTATCCCGAGTGAAGTATATGCCTGGATGTGGCAAATGGCTACTCTGAACACTTTGTGAA
TTTGTAAGATGTACGGAAGCGCTTCCCCAGCACACCATCATGGCAGGGAATGTGGTAACAGGAGAGA
TGGTAGAAGAGCTCATCCTTTCTGGGGTACATCATCAAAGTGGGAATTTGGCCAGGCTCTGTGTGAC
TACTCGGAAGAAAAGTGGAGTGGGGTATCCACAGCTCAGCGCAGTGATGGAGTGTGCAGATGCTGCTCAT
GGCCTCAAAGGCCACATCATTTCAGATGGAGTTGCAGCTGTCTGGGGATGTGGCCAAGGCTTTTGGGG
CAGGAGCTGACTTCGTGATGCTGGTGGCATGCTGGCTGGGCACAGTGAGTCAGTGGTGGTGCATCGA
GAGGGATGGCAAGAAGTACAAGCTTTCTATGGAATGAGTCTGAAATGGCCATGAAGAAGTATGCTGGG
GGCGTGGCTGAGTACAGAGCCTCAGAGGAAAGACAGTGAAGTTCCTTTTAAAGGAGATGTGGAACATA
CCATCCGAGACATCCTAGGAGGATCCGCTCTACGTGTACCTATGTGGGAGCAGCTAAGCTCAAAGAGTT
GAGCAGGAGAAGTACCTTCATCCGAGTCAACCAGCAGGTGAATCCAATCTTCAGTGGGCGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203418 representing NM_001002000
 Red=Cloning site Green=Tags(s)

MPHIDNDVKLDFKDVLLRPKRSTLKSRSSEVDL TRSF SFRNSKQTYSGVPIIAANMDTVGTFEMAKVLCKF
 SLFTAVHKHYSLVQWQEFAGQNPDCLEHLAASSGTGSSDFEQLEQILEAIPQVKYICLDVANGYSEHFVE
 FVKDVRKRFPQHTIMAGNVVTGEMVEELILSGADIKVGIGPGSVCTTRKKTGVGYPQLSAVMECADA AH
 GLKGHIISDGGCSCP GDVAKAFGAGADFVMLGGMLAGHSESGGELIERDGKKYKLFYGMSEMAMKKYAG
 GVAEYRASEGKTVEVPFKGDVEHTIRDILGGIRSTCTYVGA AKLKELSRRTTFIRVTQVNPFI SEAC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002000

ORF Size: 1044 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_001002000.3](#)

RefSeq Size: 1956 bp

RefSeq ORF: 1047 bp

Locus ID: 51292

UniProt ID: [Q9P2T1](#)

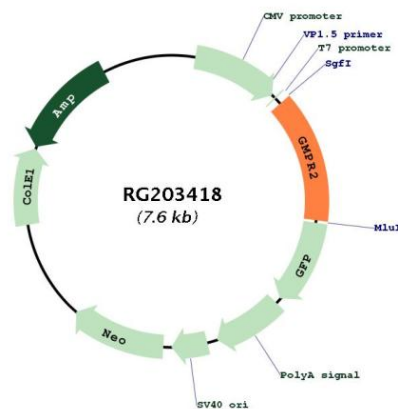
Cytogenetics: 14q12

Protein Families: Druggable Genome

Protein Pathways: Purine metabolism

Gene Summary: This gene encodes an enzyme that catalyzes the irreversible and NADPH-dependent reductive deamination of guanosine monophosphate (GMP) to inosine monophosphate (IMP). The protein also functions in the re-utilization of free intracellular bases and purine nucleosides. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RG203418