

Product datasheet for **RG223106**

GMPR2 (NM_001002002) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPR2 (NM_001002002) 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:	>RG223106 representing NM_001002002 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCATATTGACAACGATGTGAACTGGACTTCAAGGATGTCCTTTGAGGCCCAAACGCAGTACCC
TTAAGTCTCGAAGTGAGGTGGATCTCACAAGATCCTTTTCATTTGGAACCAAAGCAGACATACTG
GGTCCCATTGCTGCCAATATGGATACTGTGGCACCTTTGAGATGGCCAAGTTCTCTGTAAGTTC
TCTCTTCACTGCTGCCATAAGCACTATAGCCTCGTTCAGTGGCAAGAGTTTGTGGCCAGAATCCTG
ACTGTCTTGAGCATCTGGCTGCCAGCTCAGGCACAGGCTCTTCTGACTTTGAGCAGCTGGAACAGATCCT
GGAAGCTATCCCGAGTGAAGTATATGCCTGGATGTGGCAAATGGCTACTCTGAACACTTTGTGAA
TTTGTAAGATGTACGGAAGCGCTTCCCCAGCACACCATCATGGCAGGGAATGTGTAACAGGAGAGA
TGGTAGAAGAGCTCATCCTTTCTGGGGTGACATCATCAAAGTGGGAATTTGGCCAGGCTCTGTGTGAC
TACTCGGAAGAAAAGTGGAGTGGGGTATCCACAGCTCAGCGCAGTGATGGAGTGTGCAGATGCTGCTCAT
GGCCTCAAAGGCCACATCATTTCAGATGGAGTTGCAGCTGTCTGGGGATGTGGCCAAGGCTTTTGGG
CAGGAGCTGACTTCGTGATGCTGGTGGCATGCTGGCTGGGCACAGTGAGTCAGTGGTGGTGCATCGA
GAGGGATGGCAAGAAGTACAAGCTTTCTATGGAATGAGTCTGAAATGGCCATGAAGAAGTATGCTGG
GGCTGGCTGAGTACAGAGCCTCAGAGGAAAGACAGTGAAGTTCCTTTAAAGGAGATGTGGAACATA
CCATCCGAGACATCCTAGGAGGATCCGCTCTACGTGTACCTATGTGGGAGCAGCTAAGCTCAAAGAGTT
GAGCAGGAGAAGTACCTTCATCCGAGTCAACCAGCAGGTGAATCCAATCTTCAGTGGGCGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG223106 representing NM_001002002
 Red=Cloning site Green=Tags(s)

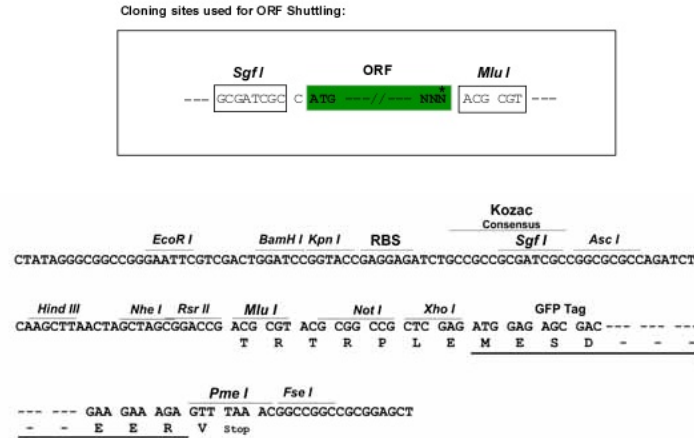
MPHIDNDVKLDFKDVLLRPKRSTLKSRSSEVDL TRSF SFRNSKQTYSGVPIIAANMDTVGTFEMAKVLCFK
 SLFTAVHKHYSLVQWQEFAGQNPDCLEHLAASSGTGSSDFEQLEQILEAIPQVKYICLDVANGYSEHFVE
 FVKDVRKRFPQHTIMAGNVVTGEMVEELILSGADIKVGIGPGSVCTTRKKTGVGYPLSAVMECADAHAH
 GLKGHIISDGGCSCP GDVAKAFGAGADFVMLGGMLAGHSESGGELIERDGKKYKLFYGMSEMAMKKYAG
 GVAEYRASEGKTVEVPFKGDVEHTIRDILGGIRSTCTYVGAALKKELSRRTTFFIRVTQVNPFI SEAC

TRTRPLE - GFP Tag - V

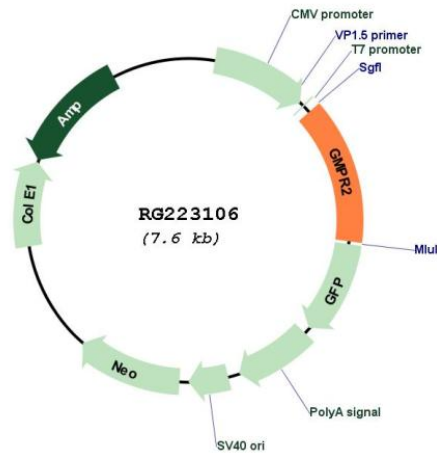
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001002002

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:	<ol style="list-style-type: none">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_001002002.3
RefSeq Size:	1631 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]