

Product datasheet for **RG237423**

GMPR2 (NM_001283023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPR2 (NM_001283023) 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:	>RG237423 representing NM_001283023. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGCCTCATATTGACAACGATGTGAACTGGACTTCAAGGATGTCCTTTTGAGGCCAAACGCAGTACC
CTTAAGTCTCGAAGTGAGGTGGATCTCACAAGATCCTTTTCATTCGGAACCTAAAGCAGACATACTCT
GGGTTCCCATCATTGCTGCCAATATGGATACTGTGGCACCTTTGAGATGGCCAAGTTCTCTGTAAG
CATCTGGCTGCCAGCTCAGGCACAGGCTCTTCTGACTTTGAGCAGCTGGAACAGATCCTGGAAGCTATT
CCCCAGGTGAAGTATATATGCCTGGATGTGGCAAATGGCTACTCTGAACACTTTGTTGAATTTGAAAA
GATGTACGGAAGCGCTTCCCCCAGCACACCATCATGGCAGGGAATGTGGTAACAGGAGAGATGGTAGAA
GAGCTCATCCTTTCTGGGCTGACATCATCAAAGTGGAATTGGGCCAGGCTCTGTGTACTACTCGG
AAGAAAATCGAGTGGGGTATCCACAGCTCAGCGCAGTGATGGAGTGTGCAGATGCTGCTCATGGCCTC
AAAGGCCACATCATTTTCAGATGGAGTTGCAGCTGTCTGGGGATGTGGCCAAGGCTTTTGGGGCAGGA
GCTGACTTCGTGATGCTGGGTGGCATGCTGGCTGGGCACAGTGAGTCAGGTGGTGAAGCTCATCGAGAGG
GATGGCAAGAAGTACAAGCTCTTCTATGGAATGAGTTCTGAAATGGCCATGAAGAAGTATGCTGGGGC
GTGGCTGAGTACAGAGCCTCAGAGGAAAGACAGTGGAAGTTCCTTTTAAAGGAGATGTGGAACATACC
ATCCGAGACATCCTAGGAGGGATCCGCTCTACGTGTACCTATGTGGGAGCAGCTAAGCTCAAAGAGTTG
AGCAGGAGAACTACCTTCATCCGAGTACCCAGCAGGTGAATCCAATCTTCAGTGAGGCGTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237423
 Blue=ORF Red=Cloning site Green=Tag(s)

MPHIDNDVKLDFKDVLLRPKRSTLKSRSSEVDL TRSF SFRNSKQTYSGVPIIAANMDTVGTFEMAKVLCK
 HLAASSGTGSSDFEQLEQILEAIPQVKYICLDVANGYSEHFVEFVKDVRKRFPHQHTIMAGNVVTGEMVE
 ELILSGADIKVGIGPGSVCTTRKKTGVGYPQL SAVMECADA AHLKGHIISDGGCSCP GDVAKAFGAG
 ADFVMLGGMLAGHSESGGELIERDGKKYKLFYGMSSSEMAMKKYAGGVAEYRASEGKTVEVPFKGDVEHT
 IRDILGGIRSTCTYVGA AKL KELSRRRTT FIRVTQQVNP I FSEAC
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001283023

ORF Size: 960 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).

RefSeq: [NM_001283023.2](#)

RefSeq Size: 1585 bp

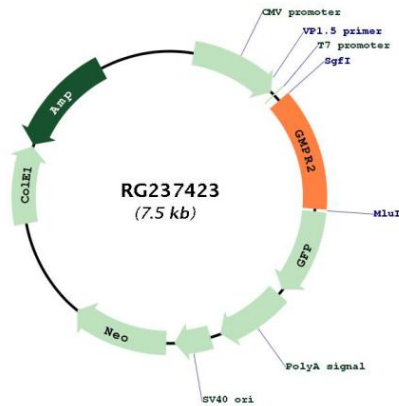
RefSeq ORF: 963 bp

Locus ID: 51292
UniProt ID: [Q9P2T1](#)
Cytogenetics: 14q12
Protein Families: Druggable Genome
Protein Pathways: Purine metabolism

MW: 35 kDa

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 RG237423