

Product datasheet for **RG237814**

GMPR2 (NM_001283021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPR2 (NM_001283021) 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:	>RG237814 representing NM_001283021. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGATGTGTTTTCTTATATACAAGTTGTTCACTTTGAAATGGAAGATGCTGCTCCTGTCAGTACTA
TTACCTGCCTCTATACTTGTGCTGAGAAGTTCTCTCTTCACTGCTGTCCATAAGCACTATAGCCTC
GTTCACTGGCAAGAGTTTGTGCTGGCCAGAATCCTGACTGTCTTGAGCATCTGGCTGCCAGCTCAGGCACA
GGCTCTTCTGACTTTGAGCAGCTGGAACAGATCCTGGAAGCTATCCCCAGGTGAAGTATATATGCCTG
GATGTGGCAAATGGCTACTCTGAACACTTTGTTGAATTTGTAAAAGATGTACGGAAGCGCTCCCCCAG
CACACCATCATGGCAGGGAATGTGGTAACAGGAGAGATGGTAGAAGAGCTCATCCTTTCTGGGGCTGAC
ATCATCAAAGTGGGAATTGGGCCAGGCTCTGTGTACTACTCGGAAGAAAAGTGGAGTGGGGTATCCA
CAGCTCAGCGCAGTGATGGAGTGTGCAGATGCTGCTCATGGCCTCAAAGGCCACATCATTTTCAGATGGA
GGTTGCAGCTGTCTGGGGATGTGGCCAAGGCTTTTGGGGCAGGAGCTGACTTCGTGATGCTGGGTGGC
ATGCTGGCTGGGCACAGTGAGTCAGGTGGTGAGCTCATCGAGAGGGATGGCAAGAAGTACAAGCTCTTC
TATGGAATGAGTTCTGAAATGGCCATGAAGAAGTATGCTGGGGCGTGGCTGAGTACAGGTATGTGTGG
AGGCCCAGGAGCTTAGTAATAGTATGGAGGCAGAACTCATGGCTGCTGAGAGGGGGATGGTACAGTTCT
CAGAGAAGCATGGTGAACCGGGCTCAATGCTAGGGTCTGTGGAAAAGTCCCTGGGCTTAAGGAATCCA
GAAGGAGAAGATAATAAAGTTTTCTACTTTAAGAGCCTCAGAGGGAAGACAGTGGAAAGTTCCCTTTT
AAAGGAGATGTGGAACATACCATCCGAGACATCCTAGGAGGGATCCGCTCTACGTGTACCTATGTGGGA
GCAGCTAAGCTCAAAGAGTTGAGCAGGAGAAGTACCTTATCCGAGTACCCAGCAGGTGAATCCAATC
TTCAGTGAGGCGTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237814
 Blue=ORF Red=Cloning site Green=Tag(s)

MGCVFLIYKFLTKWKMLLLSVLLPASILVAEKFSLFTAVHKHYSLVQWQEFAGQNPDCLEHLAASSGT
 GSSDFEQLQILEAIPQVKYICLDVANGYSEHFVEFVKDVRKRFQHTIMAGNVVTGEMVEELILSGAD
 IIKVGIQPGSVCTTRKKTGVGYPQLSAVMCADAAHGLKGHIISDGGCSCPQGDVAKAFGAGADFVMLGG
 MLAGHSESGGELIERDGKKYKLFYGMSSSEMAMKKYAGGVAEYRYVWRPRSLVIVWRQNSWLLRGGWYSS
 QRSMVNRGSMGLGSVEKSLGLRNPEGEDNKVFPTLRASEGKTVEVPFKGDVEHTIRDILGGIRSTCTYVG
 AAKLKELSRRTTFIRVTQQVNPVIFSEAC
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001283021

ORF Size: 1119 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.

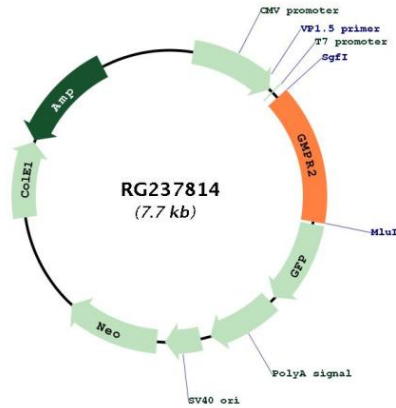
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001283021.2](#)

RefSeq Size: 2248 bp

RefSeq ORF:	1122 bp
Locus ID:	51292
UniProt ID:	Q9P2T1
Cytogenetics:	14q12
Protein Families:	Druggable Genome
Protein Pathways:	Purine metabolism
MW:	41.4 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 RG237814