

Product datasheet for **SC300385**

GMPR2 (NM_001002002) Human Untagged Clone

Product data:

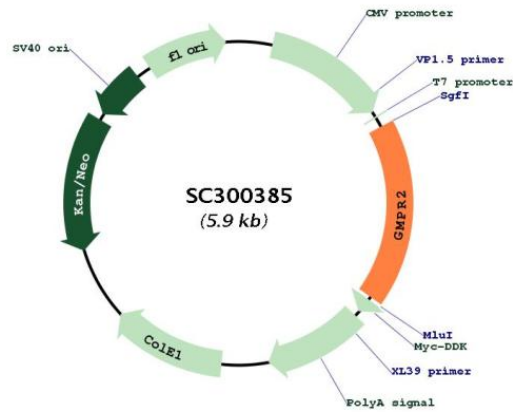
Product Type:	Expression Plasmids
Product Name:	GMPR2 (NM_001002002) Human Untagged Clone
Tag:	Tag Free
Symbol:	GMPR2
Synonyms:	GMPR 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300385 representing NM_001002002. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCCTCATATTGACAACGATGTGAACTGGACTTCAAGGATGTCCTTTTGAGGCCAAACGCAGTACC
CTTAAGTCTCGAAGTGAGGTGGATCTCACAAGATCCTTTTCATTCGGAACCTAAAGCAGACATACTCT
GGGGTTCCCATCATTGCTGCCAATATGGATACTGTGGGCACCTTTGAGATGGCCAAGTTCTCTGTAAG
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GTTGAATTTGAAAAGATGTACGGAAGCGCTTCCCCAGCACACCATCATGGCAGGGAATGTGTTAACA
GGAGAGATGGTAGAAGAGCTCATCTTTCTGGGGCTGACATCATCAAAGTGGGAATTTGGGCCAGGCTCT
GTGTGTA TACTCGGAAGAAAAGTGGAGTGGGGTATCCACAGCTCAGCGCAGTGATGGAGTGTGCAGAT
GCTGCTCATGGCCTCAAAGGCCACATCATTTTCAGATGGAGGTTGCAGCTGTCTGGGGATGTGGCCAAG
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GAGCTCATCGAGAGGGATGGCAAGAAGTACAAGCTCTTCTATGGAATGAGTTCTGAAATGGCCATGAAG
AAGTATGCTGGGGCGTGGCTGAGTACAGAGCCTCAGAGGAAAGACAGTGGAAAGTTCCTTTAAAGGA
GATGTGGAACATACCATCCGAGACATCCTAGGAGGATCCGCTCTACGTGTACCTATGTGGGAGCAGCT
AAGCTCAAAGAGTTGAGCAGGAGAACTACCTTCATCCGAGTCACCAGCAGGTTGAATCCAATCTTCAGT
GAGGCGTGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001002002

Insert Size: 1047 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001002002.2](#)

RefSeq Size: 1669 bp

RefSeq ORF: 1047 bp

Locus ID: 51292

UniProt ID: [Q9P2T1](#)

Cytogenetics: 14q12

Protein Families: Druggable Genome

Protein Pathways: Purine metabolism

MW: 37.9 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]

Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1. Variants 2, 3, and 4 encode the same isoform (2).