

Product datasheet for **SC319182**

GMPR2 (NM_016576) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPR2 (NM_016576) Human Untagged Clone
Tag:	Tag Free
Symbol:	GMPR2
Synonyms:	GMPR 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_016576.3
 TCAGCCTCTTGCCCCATTGCTCTTTGCAGGGGTAGAAGAAGGAAGTGTAGCGGGGTAAGG
 AATGCACCGTCAGGGTCTCTACAACCCCTTTCCAGCTCTCTCCCAACAAACAGTACC
 TGGGATGGAGCCCTAGGGTAATCGCAGCCACGGGATGGGTCGAGGTGACAGGCTTCAGGG
 ACCACACTTCGGCCTTTGCCGACCTCCACAACCTAAGCGAATAGAGGCCACCAGCCGT
 AACAGGGCGTTAAAGCCAGGGGAAGATTGGTCCTTATGACTTCCTGCCTCCAGCCCTC
 AGATTATCGCTACCCGAGGCTAAGCGCCATGCCTCATATTGACAACGATGTGAAACTG
 GACTTCAAGGATGCCTTTTGGGCCCAACGCAGTACCCTTAAGTCTCGAAGTGAGGTG
 GATCTCACAAGATCCTTTTCATTTTCGGAACCTAAAGCAGACATACTCTGGGGTCCCATC
 ATTGCTGCCAATATGGATACTGTGGCACCTTTGAGATGGCCAAGGTTCTCTGTAAGTTC
 TCTCTCTTCACTGCTGTCCATAAGCACTATAGCCTCGTTCAGTGGCAAGAGTTTGTGTC
 CAGAATCTGACTGTCTTGAGCATCTGGCTGCCAGCTCAGGCACAGGCTCTTCTGACTTT
 GAGCAGCTGGAACAGATCCTGGAAGCTATCCCCAGGTGAAGTATATATGCCTGGATGTG
 GCAAAATGGCTACTCTGAACACTTTGTTGAATTTGTAAGATGTACGGAAGCGCTTCCCC
 CAGCACACCATCATGGCAGGGAATGTGGTAACAGGAGAGATGGTGAAGAGCTCATCCTT
 TCTGGGGCTGACATCATAAAGTGGGAATTGGGCCAGGCTCTGTGTACTACTCGGAAG
 AAAACTGGAGTGGGGTATCCACAGCTCAGCGCAGTGTGGAGTGTGCAGATGCTGCTCAT
 GGCTCAAAGGCCACATCATTTTCAGATGGAGGTTGCAGCTGCTCTGGGGATGTGGCCAAG
 GCTTTTGGGGCAGGAGCTGACTTCGTGATGCTGGGTGGCATGCTGGTGGGCACAGTGAG
 TCAGGTGGTGAGCTCATCGAGAGGGATGGCAAGAAGTACAAGCTCTTCTATGGAATGAGT
 TCTGAAATGGCCATGAAGAAGTATGCTGGGGCGTGGCTGAGTACAGAGCCTCAGAGGGA
 AAGACAGTGAAGTTCCTTTTAAAGGAGATGTGGAACATACCATCCGAGACATCCTAGGA
 GGGATCCGCTCTACGTGTACCTATGTGGGAGCAGCTAAGCTCAAAGAGTTGAGCAGGAGA
 ACTACCTTCATCCGAGTACCCAGCAGGTGAATCCAATCTTCAGTGAGGGGTGCTAGACC
 TGAGCAGTTTACCCTCCCAAGGCACCAGTACTCTACCATGGGGCATCCCAAGTGGGGTC
 CTCACCCATCCCAGTACTGCAGCTCTGTATTACTTTGTCATTTCTGTTGTCTCACTCC
 TGAGGGCTCCTGCAGTAACTCTGTACTTCTCTATCTGCACACACAAAATGCCAAGGCAC
 TCACTGGGGAGGAAGCAAGGAAGCAAACAGTCTGAGAAAATGATGCAAGAAAATCAAATG
 GGAATCTGGGGACCCAACACAACATCCTGAAGATTATTAAGGAAAAGATGCTGATTGG
 TACATAAATCTTTACATGGCCTTGGTCTAGAGGAGGCAGGCTTTTGAATCATGTTTTG
 TTAATCCGCTTCACTAAATTGGACCTTACATATCTAAAAAGCTCTGAAGTGTGTTGATA
 TTTGAAATACCTCAATAAAGAGAGAGCTCATTGACTGTAAAAAAAAAAAAAAAAAAAAA
 A

Restriction Sites: Please inquire

ACCN: NM_016576

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_016576.3](#), [NP_057660.2](#)

RefSeq Size: 1872 bp

RefSeq ORF: 1101 bp

Locus ID: 51292

UniProt ID: [Q9P2T1](#)

Cytogenetics: 14q12

Domains: IMPDH

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]
Transcript Variant: This variant (1) encodes isoform 1.