

Product datasheet for RC237814

GMPR2 (NM_001283021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPR2 (NM_001283021) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GMPR2
Synonyms:	GMPR 2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237814 representing NM_001283021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGATGTGTTTTCTTATATACAAGTTGTTCACTTTGAAATGGAAGATGCTGCTCCTGTCAGTACTAT
TACCTGCCTCTACTTGTGCTGAGAAGTTCTCTCTTCACTGCTGTCCATAAGCACTATAGCCTCGT
TCAGTGCCAAGAGTTTGTGGCCAGAATCCTGACTGTCTTGAGCATCTGGCTGCCAGCTCAGGCACAGGC
TCTTCTGACTTTGAGCAGCTGGAACAGATCCTGGAAGCTATCCCCAGGTGAAGTATATATGCTGGATG
TGGCAATGGCTACTCTGAACACTTTGTTGAATTTGTAAGATGTACGGAAGCGCTTCCCCAGCACAC
CATCATGGCAGGGAATGTGGTAACAGGAGAGATGGTAGAAGAGCTCATCCTTTCTGGGGCTGACATCATC
AAAGTGGGAATTTGGCCAGGCTCTGTGTACTACTCGGAAGAAAAGTGGAGTGGGGTATCCACAGCTCA
GCGCAGTGATGGAGTGTGCAGATGCTGCTCATGGCCTCAAAGGCCACATCATTTCAGATGGAGGTTGCAG
CTGTCTGGGGATGTGGCCAAGGCTTTTGGGGCAGGAGCTGACTTCGTGATGCTGGGTGGCATGCTGGCT
GGGCACAGTGAGTCAGGTGGTGAGCTCATCGAGAGGGATGGCAAGAAGTACAAGCTTTCTATGGAATGA
GTTCTGAAATGGCCATGAAGAAGTATGCTGGGGCGTGGCTGAGTACAGGTATGTGTGGAGGCCAGGAG
CTTAGTAATAGTATGGAGGCAGAACTCATGGCTGCTGAGAGGGGGATGGTACAGTTCTCAGAGAAGCATG
GTGAACCGGGGCTCAATGCTAGGGTCTGTGAAAAGTCCCTGGGCTTAAGGAATCCAGAAGGAGAAGATA
ATAAAGTTTTTCTACTTTAAGAGCCTCAGAGGAAAAGACAGTGGAAAGTCCTTTTAAAGGAGATGTGGA
ACATACCATCCGAGACATCCTAGGAGGGATCCGCTCTACGTGTACCTATGTGGGAGCAGCTAAGCTCAA
GAGTTGAGCAGGAGAAGTACCTTCATCCGAGTACCCAGCAGGTGAATCCAATCTTCAGTGAGGCGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237814 representing NM_001283021
 Red=Cloning site Green=Tags(s)

MGCVFLIYKLF~~TLKWKMLLLSVLLPASILVAEKFSLFTAVHKHYSLVQWQEFAGQNPDCLEHLAASSGTG~~
 SSDFEQLEQILEAIPQVKYICLDVANGYSEHFVEFVKDVRKRF~~PQHTIMAGNVVTGEMVEELILSGADII~~
 KVGIGPGSVCTTRKKTGVGYPQLSAVMCADAHGLKGHIISDGGCSCP~~GDVAKAFGAGADFVMLGGMLA~~
 GHSESGGELIERDGKKYKLFYGMSEAMKKYAGGVAEYRYVWR~~PRSLVIWVRQNSWLLRGWYSSQRSM~~
 VNRGSMGLGSVEKSLGLRNPEGEDNKVFP~~TLRASEGKTVEVPFKGDVEHTIRDILGGIRSTCTYVGAALKL~~
 ELSRRTTFIRVTQVNP~~IFSEAC~~

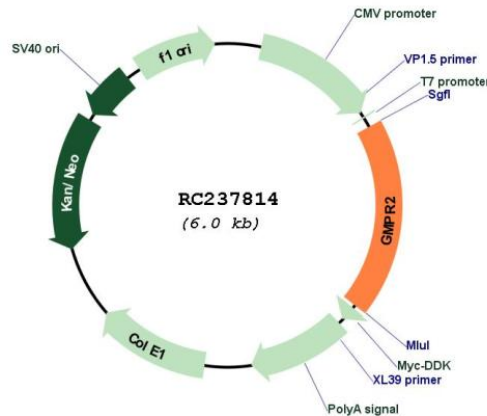
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]