

Product datasheet for RC204267L2

OriGene Technologies, Inc.

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GMP Synthase (GMPS) (NM_003875) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: GMP Synthase (GMPS) (NM_003875) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: GMP Synthase

Synonyms: GATD7

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

E. coli Selection: Chloramphenicol (34 ug/mL)

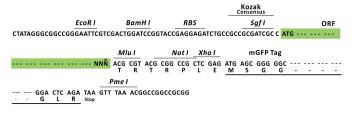
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC204267).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_003875

ORF Size: 2079 bp

ORÏGENE

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: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 003875.2</u>

 RefSeq Size:
 2457 bp

 RefSeq ORF:
 2082 bp

 Locus ID:
 8833

 UniProt ID:
 P49915

Cytogenetics: 3q25.31

Domains: GATase, GMP_synt_C

Protein Families: Stem cell - Pluripotency

Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

MW: 76.7 kDa

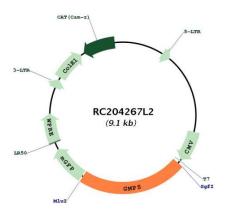
Gene Summary: In the de novo synthesis of purine nucleotides, IMP is the branch point metabolite at which

point the pathway diverges to the synthesis of either guanine or adenine nucleotides. In the guanine nucleotide pathway, there are 2 enzymes involved in converting IMP to GMP, namely

IMP dehydrogenase (IMPD1), which catalyzes the oxidation of IMP to XMP, and GMP synthetase, which catalyzes the amination of XMP to GMP. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC204267L2