

## Product datasheet for RC204267L2V

## OriGene Technologies, Inc.

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## GMP Synthase (GMPS) (NM 003875) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** GMP Synthase (GMPS) (NM\_003875) Human Tagged ORF Clone Lentiviral Particle

Symbol: GMP Synthase

Synonyms: GATD7

Mammalian Cell None

Selection:

Vector:

pLenti-C-mGFP (PS100071)

Tag: mGFP

**ACCN:** NM\_003875 **ORF Size:** 2079 bp

**ORF Nucleotide** 

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

Sequence:

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.

**RefSeg:** NM 003875.2

 RefSeq Size:
 2457 bp

 RefSeq ORF:
 2082 bp

 Locus ID:
 8833

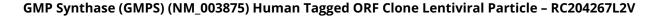
 UniProt ID:
 P49915

 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]