Product datasheet for RC204267L3V

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 Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_003875
ORF Size:	2079 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204267).
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.
RefSeq:	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

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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]