

Product datasheet for **RC204267**

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

Product data:

Product Type:	Expression Plasmids
Product Name:	GMP Synthase (GMPS) (NM_003875) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GMP Synthase
Synonyms:	GATD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC204267 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

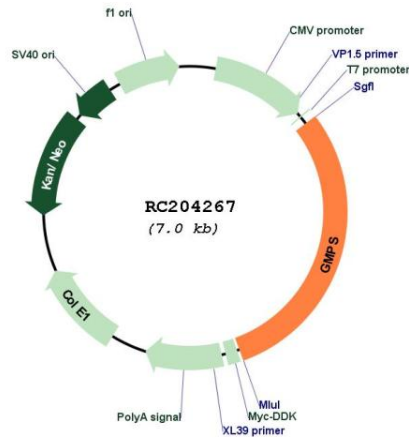
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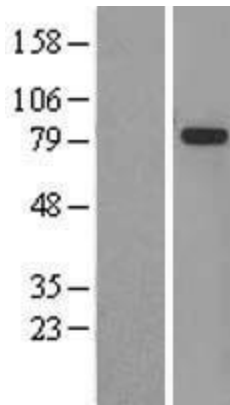
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 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_003875.3
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]

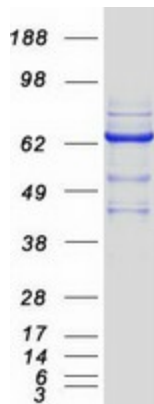
Product images:



Circular map for RC204267



Western blot validation of overexpression lysate (Cat# [LY418378]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204267 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GMPS protein (Cat# [TP304267]). The protein was produced from HEK293T cells transfected with GMPS cDNA clone (Cat# RC204267) using MegaTran 2.0 (Cat# [TT210002]).