

Product datasheet for RC215732

GGPS1 (NM_001037277) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GGPS1 (NM_001037277) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GGPS1 |
| Synonyms: | GGPPS; GGPPS1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC215732 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAAGACTCAAGAAACAGTCCAAAGAATTCTTCTAGAACCCTATAAATACTTACTTCAGTTACCAG
GTAACAAGTGAGAACCAAACCTTCACAGGCATTTAATCATTGGCTGAAAGTTCCAGAGGACAAGCTACA
GATTATTATTGAAGTGACAGAAATGTTGCATAATGCCAGTTTACTCATCGATGATATTGAAGACAACCTCA
AAACTCCGACGTGGCTTCCAGTGGCCACAGCATCTATGGAATCCCATCTGTCATCAATTCTGCCAATT
ACGTGTATTTCCCTTGGCTTGGAGAAAGTCTTAACCCTTGATCACCCAGATGCAGTGAAGCTTTTTACCCG
CCAGCTTTTGGAACTCCATCAGGACAAGGCCTAGATATTTACTGGAGGGATAATTACACTTGTCCCACT
GAAGAAGAATATAAAGCTATGGTCTGCAGAAAACAGGTGGACTGTTTGGATTAGCAGTAGGTCTCATGC
AGTTGTTCTCTGATTACAAAGAAGATTTAAAACCGCTACTTAATACACTTGGGCTCTTTTTCCAAATTAG
GGATGATTATGCTAATCTACACTCCAAAGAATATAGTGAAAACAAAAGTTTTTGTGAAGATCTGACAGAG
GGAAAGTTCTCATTTCCTACTATTATGCTATTTGGTCAAGGCCCTGAAAGCACCCAGGTGCAGAATATCT
TGCGCCAGAGAACAGAAAACATAGATATAAAAAAATACTGTGTACATTATCTTGAGGATGTAGGTTCTTT
TGAATACACTCGTAATACCCTTAAAGAGCTTGAAGCTAAAGCCTATAAACAGATTGATGCACGTGGTGGG
AACCTGAGCTAGTAGCCTTAGTAAAACACTTAAGTAAGATGTTCAAAGAAGAAAATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215732 protein sequence
Red=Cloning site Green=Tags(s)

MEKTQETVQRILLEPYKYLLQLPGKQVRTKLSQAFNHWLKVPEDKLQIIIEVTEMLHNASLLIDDIEDNS
 KLRRGFPVAHSIYGIPSVINSANYVYFLGLEKVLTDHPDAVKLFRQLLELHQGQLDIYWRDNYTCPT
 EEEYKAMVLRKTKGGLFGLAVGLMQLFSDYKEDLKPLLNTLGLFFQIRDDYANLHKEYSENKSFCEDLTE
 GKFSFPTIHAISRPSTQVQNILRQRTENIDIKKYCVHYLEDVGSFEYTRNTLKELEAKAYKQIDARGG
 NPFLVALVKHLSKMFKEENE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6415_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037277

ORF Size: 900 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:

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_001037277.1](#), [NP_001032354.1](#)

RefSeq Size: 2757 bp

RefSeq ORF: 903 bp

Locus ID: 9453

UniProt ID: [O95749](#)

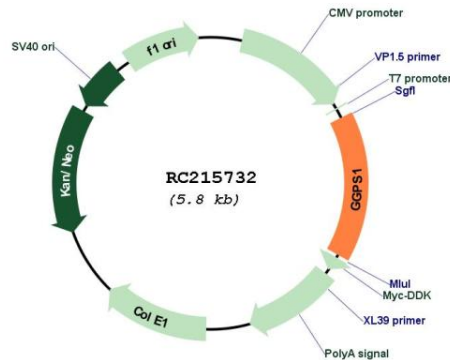
Cytogenetics: 1q42.3

Protein Pathways: Metabolic pathways, Terpenoid backbone biosynthesis

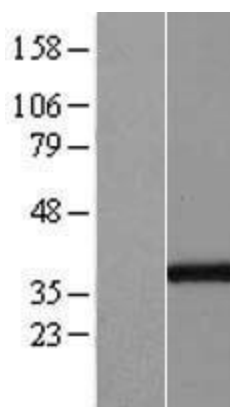
MW: 34.9 kDa

Gene Summary: This gene is a member of the prenyltransferase family and encodes a protein with geranylgeranyl diphosphate (GGPP) synthase activity. The enzyme catalyzes the synthesis of GGPP from farnesyl diphosphate and isopentenyl diphosphate. GGPP is an important molecule responsible for the C20-prenylation of proteins and for the regulation of a nuclear hormone receptor. Alternate transcriptional splice variants, both protein-coding and non-protein-coding, have been found for this gene. [provided by RefSeq, Sep 2010]

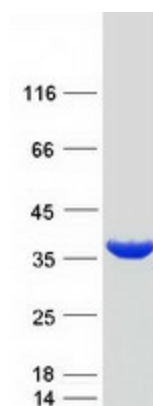
Product images:



Circular map for RC215732



Western blot validation of overexpression lysate (Cat# [LY421936]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215732 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GGPS1 protein (Cat# [TP315732]). The protein was produced from HEK293T cells transfected with GGPS1 cDNA clone (Cat# RC215732) using MegaTran 2.0 (Cat# [TT210002]).