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Product datasheet for RC216980

GGPS1 (NM_001037278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGPS1 (NM_001037278) 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:

>RC216980 representing NM_001037278
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCATAATGCCAGTTTACTCATCGATGATATTGAAGACAACTCAAAACTCCGACGTGGCTTTCCAG
TGGCCCACAGCATCTATGGAATCCCATCTGTCATCAATTCTGCCAATTACGTGTATTTCCTTGGCTTGGA
GAAAGTCTTAACCCTTGATCACCCAGATGCAGTGAAGCTTTTTACCCGCCAGCTTTTGGAACTCCATCAG
GGACAAGGCCTAGATATTTACTGGAGGGATAATTACACTTGTCCCACTGAAGAAGAATATAAAGCTATGG
TGCTGCAGAAAACAGGTGGACTGTTTGGATTAGCAGTAGGTCTCATGCAGTTGTTCTCTGATTACAAAGA
AGATTTAAAACCGCTACTTAATACACTTGGGCTCTTTTTCCAAATTAGGGATGATTATGCTAATCTACAC
TCCAAAGAATATAGTGAAAACAAAAGTTTTTGTGAAGATCTGACAGAGGGAAAGTTCTCATTTCCTACTA
TTCATGCTATTTGGTCAAGGCCTGAAAGCACCCAGGTGCAGAATATCTTGCGCCAGAGAACAGAAAACAT
AGATATAAAAAAATACTGTGTACATTATCTTGAGGATGTAGGTTCTTTTGAATACACTCGTAATACCCTT
AAAGAGCTTGAAGCTAAAGCCTATAAACAGATTGATGCACGTGGTGGGAACCCTGAGCTAGTAGCCTTAG
TAAAACACTTAAGTAAGATGTTCAAAGAAGAAAATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC216980 representing NM_001037278
Red=Cloning site Green=Tags(s)

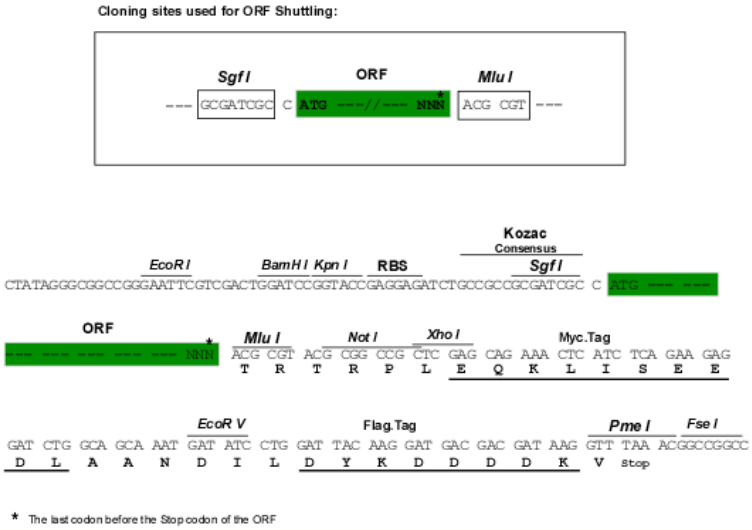
MLHNASLLIDDIEDNSKLRRGFPVAHSIYGIPSVINSANYVYFLGLEKVLTLDHPDAVKLFTRQLLELHQ
GQGLDIYWRDNYTCPTEEEYKAMVLQKTGGLFGLAVGLMQLFSDYKEDLKPLLNTLGLFFQIRDDYANLH
SKEYSENKSFCEDLTEGKFSFPTIHAIWSRPESTQVQNILRQRTENIDIKKYCVHYLEDVGSFEYTRNTL
KELEAKAYKQIDARGGNPELVALVKHLSKMFKEENE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1503_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037278

ORF Size: 738 bp

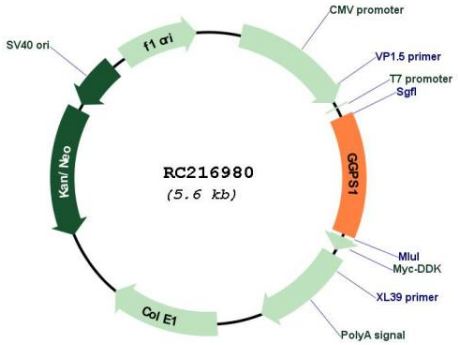
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

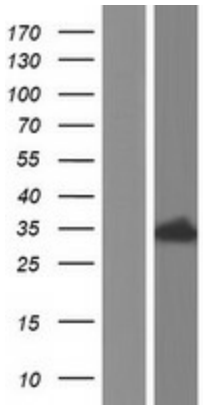
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001037278.2
RefSeq Size:	2828 bp
RefSeq ORF:	741 bp
Locus ID:	9453
Cytogenetics:	1q42.3
Protein Pathways:	Metabolic pathways, Terpenoid backbone biosynthesis
MW:	28.2 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 RC216980



Western blot validation of overexpression lysate (Cat# [LY421937]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216980 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).