

Product datasheet for **RR212557**

Ggps1 (NM_001007626) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ggps1 (NM_001007626) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ggps1
Synonyms: Crlf3; rGGPS1a; rGGPS1a1; rGGPS1a2; rGGPS1a3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212557 representing NM_001007626
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGAAAACAAAGAGAAAGCTGAAAGAATTCTTCTAGAGCCTTATAAGTACTTACTTCAATTACCAG
GTAACAGGTGAGAACCAAACTTTCACAGGCATTTAATCACTGGCTGAAAGTTCCAGAAGACAAGCTACA
GATTATCATTGAAGTACTGAAATGTTGCATAATGCCAGTTTACTCATTGATGATATTGAAGACAGTTCA
AAGCTCCGACGTGGTTTTCCAGTTGCTCACAGCATCTATGGTGTCCCATCTGTCATTAACTCTGCCAATT
ATGCTACTTCTTGGCCTGGAAAAAGTCTTAACACTTGATCACCCAGATGCAGTGAAGCTTTTCACACG
ACAGCTTTTGAACCTTATCAGGGACAAGGCCTAGATATTTACTGGAGAGATACCTACACTTGTCCGACT
GAAGAAGAATAAAAGCCATGGTGTGCAGAAGACAGGTGGCTTGTGGATTAGCCGTAGGCCTCATGC
AGTTGTTCTCTGACTACAAAGAAGATCTAAAGCCACTGCTGGACACACTTGGGCTCTTCTCCAGATTAG
AGATGATTACGCCAATCTACACTCAAAGAATACAGTAAAACAAAAGTTTCTGTGAAGACCTGACAGAA
GGAAAGTTCTCATTTCCTACTATTATGCCATTTGGTCAAGGCCAGAAAGCACCCAGGTACAGAATCC
TGCCCAAAGAACAGAAAATATAGACATTAAGAAAGTACTGTGTGAGTACCTGGAGGATGTAGGTTCTTT
TGAATATACGCGATACACTCTTAGAGAGCTCGAAGCTAAAGCCTACAAACAAATCGAGGCCTGCGGTGG
AACCTTCACTAGTGGCTTTAGTCAAGCATTAAAGTAAGATGTTACAGAAAGAAAATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR212557 representing NM_001007626
 Red=Cloning site Green=Tags(s)

MEKTKEKAERILLEPYKYLLQLPGKQVRTKLSQAFNHWLKVPEDKLQIIIEVTEMLHNASLLIDDIEDSS
 KLRRGFPVAHSIYGVPSVINSANYVYFLGLEKVLTLDHPDAVKLFRQLLELHQGGQLDIYWRDITYCPT
 EEEYKAMVLQKTGGLFGLAVGLMQLFSDYKEDLKPLLDLTLGLFFQIRDDYANLHKEYSENKSFCEDLTE
 GKFSFPTIHAISRPESTQVQNILRQRTEINIDIKKYCVQYLEDVGSFEYTRYTLRELEAKAYKQIEACGG
 NPSLVALVKHLSKMFTEENE

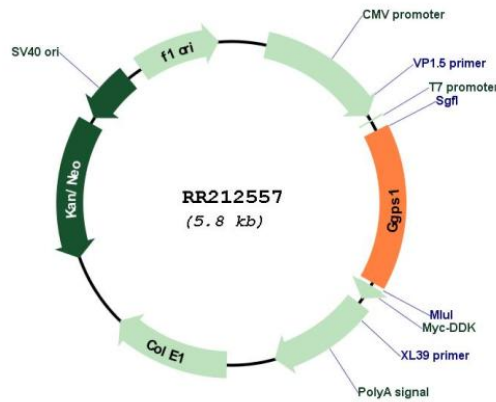
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007626

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: | <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_001007626.2 , NP_001007627.1 |
| RefSeq Size: | 2620 bp |
| RefSeq ORF: | 903 bp |
| Locus ID: | 291211 |
| UniProt ID: | Q6F596 |
| Cytogenetics: | 17q12.1 |
| MW: | 34.8 kDa |
| Gene Summary: | Catalyzes the trans-addition of the three molecules of IPP onto DMAPP to form geranylgeranyl pyrophosphate, an important precursor of carotenoids and geranylated proteins.[UniProtKB/Swiss-Prot Function] |