

Product datasheet for **MR220348**

Ggps1 (NM_010282) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ggps1 (NM_010282) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ggps1
Synonyms: 1810026C22Rik; 9530089B04Rik; A1843169; C79210
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR220348 representing NM_010282
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGAAAACAAAGAGAAAGCTGAGAGGATTCTTCTAGAGCCCTATAGGTAAGTACTTACTTACGTTACCAG
GTAACAGGTGAGAAGCAAACCTTACAGGCATTTAATCACTGGCTGAAAGTTCCAGAAGACAAGCTACA
GATTATCATTGAAGTACTGAAATGTTGCATAATGCCAGTTTACTCATTGATGATATTGAAGACAGTTCA
AAGCTCCGACGTGGTTTCCAGTGGCTCACAGCATCTATGGTGTCCCATCTGTCATTAATTCTGCCAATT
ACGTCTACTTCTTGGACTGGAAAAAGTCTTAACCCCTTGATCACCCGGATGCGGTGAAGCTTTTCACACG
CCAGCTTCTGGAACCTCATCAGGGACAAGGCCTCGATATTTACTGGAGGGACACCTACACTTGTCCAAC
GAAGAAGAATAAAAGCCATGGTGTGCAGAAGACAGGTGGTTTGGATTAGCAGTAGGTCTTATGC
AGCTGTTCTCTGATTACAAAGAAGATCTAAAGCCACTGCTTGACACACTTGGGCTCTTTTCCAGATTAG
AGATGATTATGCCAATCTACACTCAAAGAATACAGTAAAACAAAAGTTTCTGTGAAGACTTGACAGAA
GGGAAGTTCTCATTCCCCACTATCCATGCCATTTGGTCAAGGCCAGAAAGCACCCAGGTACAGAATCC
TGCGCCAGAGAACAGAGAATATAGATATTAAGAAAGTATTGTGTGCAGTACCTGGAGGATGTAGTTCTTT
TGCATACACTCGACACACTTCTAGAGAGCTTGAAGCTAAAGCCTACAAACAAATTGAGGCCTGTGGTGG
AACCTTCACTAGTGGCTTTAGTCAAGCACTTAAGTAAGATGTTACAGAAAGAAAATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220348 representing NM_010282
 Red=Cloning site Green=Tags(s)

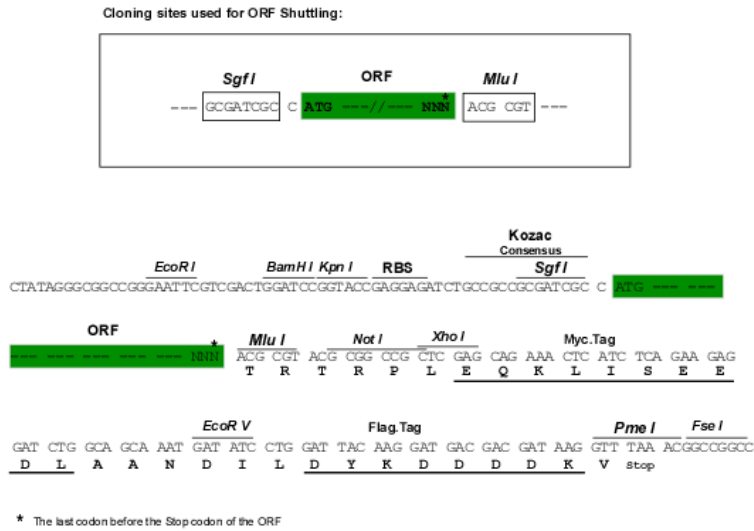
MEKTKEKAERILLEPYRYLLQLPGKQVRSKLSQAFNHWLKVPEDKLQIIIEVTEMLHNASLLIDDIEDSS
 KLRRGFPVAHSIYGVPSVINSANYVYFLGLEKVLTDHPDAVKLFRQLLELHQGGQLDIYWRDTYTCPT
 EEEYKAMVLQKTGGLFGLAVGLMQLFSDYKEDLKPLDGLFFQIRDDYANLHSKEYSENKSFCEDLTE
 GKFSPPTIHAISRPESTQVQNILRQRTEIDIKKYCVQYLEDVGSFAYTRHTLRELEAKAYKQIEACGG
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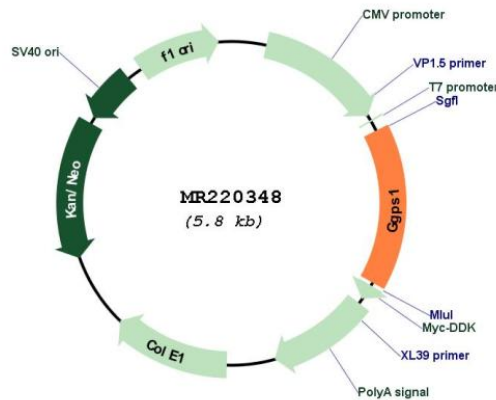
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010282

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_010282.3
RefSeq Size:	2387 bp
RefSeq ORF:	903 bp
Locus ID:	14593
UniProt ID:	Q9WTN0
Cytogenetics:	13 5.29 cM
MW:	35.2 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]