

## Product datasheet for **MR221974**

### Gripap1 (NM\_207670) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gripap1 (NM_207670) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gripap1
Synonyms:	AI854681; DXImx47e; GRASP-1; mKIAA1167; Sfc10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221974 representing NM\_207670  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCAAGCTCTGTCTGAAGAGGAGTTTCAACGGATGCAGACTCAGCTCCTGGAGCTCCGGACAATA  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:** >MR221974 representing NM\_207670  
Red=Cloning site Green=Tags(s)

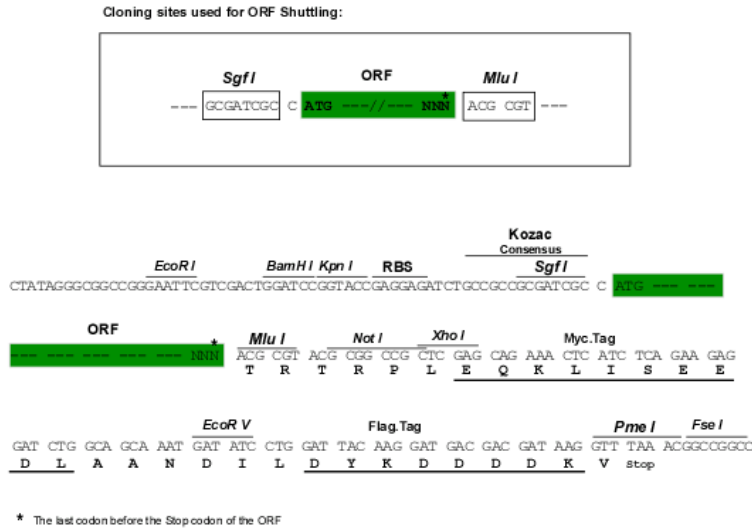
MAQALSEEEFQRMQTQLLELRTNNYQLSDELKNGVELSSLRQKVAYLDKEFSKAQKALSKSKKAQEVEV  
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ERRLKEAEESLQQQQEQEETLKLCEEHAAELKGDDEELQNVREQLQQAQEERDGHVKTISNLKQEVKD  
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SASMAEDLCRKSIIETVYMDRIDVSVAAAGHTDRSGLGSVLRDLVKPGDENLREMNKLLQNMLEEQLTK  
NMHLHKDMEVLSQEIVRLSKECVGSPDPDLEPGEAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9095\\_e06.zip](https://cdn.origene.com/chromatograms/mm9095_e06.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_207670

ORF Size: 2418 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\\_207670.2](#), [NP\\_997553.1](#)

**RefSeq Size:** 2928 bp

**RefSeq ORF:** 2421 bp

**Locus ID:** 54645

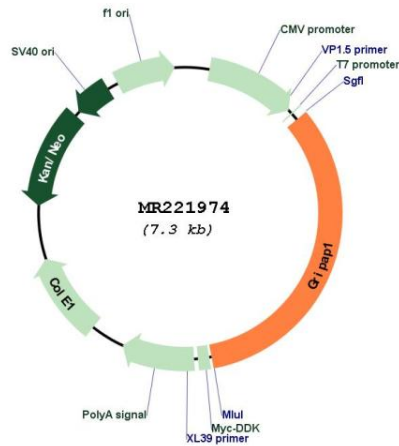
**UniProt ID:** [Q8VD04](#)

**Cytogenetics:** X 3.51 cM

**MW:** 92.7 kDa

**Gene Summary:** Regulates the endosomal recycling back to the neuronal plasma membrane, possibly by connecting early and late recycling endosomal domains and promoting segregation of recycling endosomes from early endosomal membranes. Involved in the localization of recycling endosomes to dendritic spines, thereby playing a role in the maintenance of dendritic spine morphology. Required for the activity-induced AMPA receptor recycling to dendrite membranes and for long-term potentiation and synaptic plasticity (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR221974