

Product datasheet for **MG221974**

Gripap1 (NM_207670) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gripap1 (NM_207670) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gripap1
Synonyms:	AI854681; DXImx47e; GRASP-1; mKIAA1167; Sfc10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221974 representing NM_207670
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCAAGCTCTGTCTGAAGAGGAGTTTCAACGGATGCAGACTCAGCTCCTGGAGCTCCGGACAATA
 ACTACCAGCTTTTCGGATGAACTTCGGAAGAATGGTGTGAACTTTCCAGTCTTCGACAGAAGGTCGCCTA
 CCTGGATAAGGAGTTCAGTAAAGCTCAAAAGGCACTAAGCAAGAGCAAGAAAGCTCAGGAAGTGGAGGTA
 CTGCTGAGTGAATAAGATGCTGCAGGCAAGCTGCACAGCCAGGAGGAGGACTTCCGTTTGCAGAAACA
 GTACACTTATGGCCGAGTTCAGCAAGCTTTGCAGCCAGCTGGAGCAGCTGGAGCTGGAAAACCGACAAC
 CAAGGAAGGCGTTCCTGGAGCAGCTGGAGCACATGTGGACGGGGAGCTGCTGAGGCTGCAGGCAGAGAAC
 ACAGCCTTGCAGAAGAACATGGCAGCACTGCAGGAACGCTATGGGAAAGAGGCTGTGAGGCCCTCTGCTG
 TTGGTGAAGGCCAAGGGATCCCCAGGAGACGTAATCCCCACTCCCCTGGCTCCATGCCATTGGCAGA
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 AGCTCAAAGCAAGCTGAAACCTCCAGACTACAGGAGGAACTTGCTAAGCTCTCTGAGAAATTGAAAAAGA
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 AGAATTGCAACAGCGGAAGGAAGCTGATCTGAAAGCCAGTTGGCTCGCACCCAAAAACTACAGCAGGAA
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 CAGCGTTGCGGGCCCTACAAGATCAGATCCAGACAGCAAGACACAAGAACTGAATATGCTTCGGGAACA
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 GACCTCAACTCGCAGCTCCAGGAGTCGTTAAGGGCCAATAGCCGGCTGCTGGAACAACTCAAGAAATAG
 GGCAGGAGAAGGAGCAGCTAACCAGGATCTCCAGGAAGCTCGGAAGAGTCCCGAGAAAAGGAAGTGCAT
 GCTGGATGAACTAGCCATGGAGACGCTGCAGGAGAAGTCCCAGCACAAAGAAGAAGTGGGGCCGTCGCG
 TTACGGCACGAGAAGGAGCTGCTGGCGTGCAGCCGATACGAGCGTGAGCTTCGAGAAGTGCACGAGG
 ACAAGAAGCGGCAGGAGGAGGAGCTCCGGGGCAGATTGCTGAGGAGAAGGCTCGAACAAGGGAATTAGA
 AAATCTTCAGCACACAGTGAAGAACTCCAGGCTCAGGTACACTCCATGGATGGAGCCAAGGGCTGGTTT
 GAACGGCGCTTGAAGGAAGCTGAGGAATCTTTCAGCAGCAGCAACAGGAACAAGAGGAAACCTCAAGC
 TGTGCCGGGAGGAGCACGCCGCTGAGCTGAAGGGCAAGGATGAAGAGCTTCAAGATGTTTCGGGAACAGCT
 CCAGCAGGCCAGGAGGAGGAGATGGCCACGTGAAGACCATCAGCAACCTGAAGCAGGAGGTAAGGAC
 ACAGTAGACGGGCAGCGATCCTGGAGAAGAAAGCAGCGCTGTGCTCAAAGATCTTAAGCGGCAGCTGC
 ACTTGGAGCGAAACGGGCTGATAAGCTGCAGGAACGGCTGCAGGAGATCCTTACCAACAGCAAGAGCCG
 CACAGGCTCAGGAGGAGTGGTTCTGCTGAGATGAACTACCAAGCAGGACCCAGACAGGGGACAGCAGT
 AGTGTCTCCTCCTCAGTACCAGGAGATCTTGAAGGAGAAGGAGAGTTCAGCCATCCCAGCCAGGTCTC
 TATCCAGCAGTCTCAGGCCAGCCCCCTCGGCCAGCAGAGCTGTGAGATGAGGAAGTGGCTGAGCTGTT
 TCAGAGGCTGGCCGAGACTCAGCAGGAAAAATGGATGCTAGAGGAGAAGGTGAAACACCTGGAGGTGAGC
 AGCGCCTCTATGGCGGAAGATCTCTGCCGAAAAGCGCCATCATTGAGACCTACGTATGGACAGCCGGA
 TTGATGTGTCTGTGGCAGCAGGCCACACAGACCGAAGTGGGCTGGGCAGTGTCTGAGAGACCTAGTGAA
 GCCAGGCGATGAGAACCTTCGAGAAATGAACAAGAAGCTGCAGAACATGTTGGAGGAGCAACTACCAAG
 AACATGCACTTGACAAGGACATGGAAGTTCTATCCCAGGAAATTGTGCGGCTCAGCAAGGAATGTGTGG
 GGTCCCCTGACCCAGACCTAGAAGCTGGAGAAGCCAAC

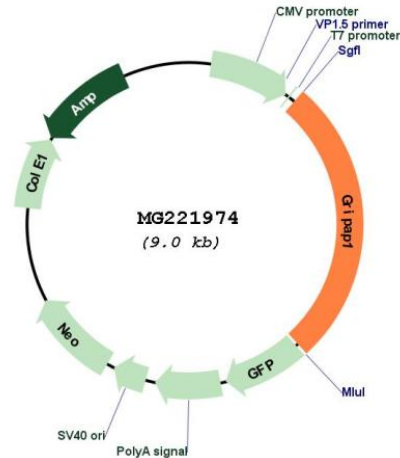
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG221974 representing NM_207670
Red=Cloning site Green=Tags(s)

MAQALSEEEFQRMQTQLLELRTNNYQLSDELKNGVELSSLRQKVAYLDKEFSKAQKALSKSKKAQEVEV
LLSENEMLQAKLHSQEEDFRLQNSTLMAEFSKLCSQLELELENRQLKEGVPGAAGAHVDGELLRLQAEN
TALQKNMAALQERYGKEAVRPSAVGEGQDPPGDVLPPLAPMPLAEVELKWEMEREKLLWEQLQGLE
SSKQAETSRLQEELAKLSEKLEKKEQESFCRLQTEKETLFNDSRNKIEELQQRKEADLKAQLARTQKLQQE
LEAANQSLAELRDQRQGERLEHAAALRALQDQIQTAKTQELNMLREQTSELASELQHRQAEYEELMGQKD
DLNSQLQESLRANSRLLEQLQEIGQEKEQLTQDLQEARKSAEKRVMLDELAMETLQEKSQHKKEELGAVR
LRHEKELLGVRARYERELRELHEDKKRQEEELRGQIREEKARTRELENLQHTVEELQAQVHSMGAKGWF
ERRLKEAEESLQQQQEQEETLKLCEEHAAELKGDDEELQNVREQLQQAQEERDGHVKTISNLKQEVKD
TVDGQRILEKKGSAVLKDLKRQLHLERKRADKLQERLQELTNSKSRTGLEELVLSMNPSRTQTGDSS
SVSSFSYREILKEKESSAIPARSLSSSPQAQPPRPAELSDEEVAELFQRLAETQQEKWMLEEKVKHLEVS
SASMAEDLCRKSIIETIVMDSRIDVSVAAAGHTDRSGLGSVLRDLVKPGDENLREMNKLLQNMLEEQLTK
NMHLHKDMEVLSQEIVRLSKECVGSPDPDLEPGEAN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


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: 2937 bp

RefSeq ORF: 2421 bp

Locus ID: 54645

UniProt ID: [Q8VD04](#)

Cytogenetics: X 3.51 cM

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]