

Product datasheet for **MR231233**

Gripap1 (NM_001290455) Mouse Tagged ORF Clone

Product data:

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|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Gripap1 (NM_001290455) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Gripap1 |
| Synonyms: | AI854681; DXImx47e; GRASP-1; mKIAA1167; Sfc10 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide
Sequence:

>MR231233 representing NM_001290455
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCAAGCTCTGTCTGAAGAGGAGTTTCAACGGATGCAGACTCAGCTCCTGGAGCTCCGGACAATA
ACTACCAGCTTTTCGGATGAACCTTCGGAAGAATGGTGTGAACCTTCCAGTCTTCGACAGAAGGTCGCCTA
CCTGGATAAAGGAGTTCAGTAAAGCTCAAAAGGCACTAAGCAAGAGCAAGAAAGCTCAGGAAGTGGAGGTA
CTGCTGAGTGAATAAGATGCTGCAGGCAAGCTGCACAGCCAGGAGGAGACTTCCGTTTGCAGAACA
GTACACTTATGGCCGAGTTCAGCAAGCTTTCAGCCAGCTGGAGCAGCTGGAGCTGGAAAACCGACAAC
CAAGGAAGGCGTTCCTGGAGCAGCTGGAGCACATGTGGACGGGGAGCTGCTGAGGCTGCAGGCAGAGAAC
ACAGCCTTGCAGAAGAACATGGCAGCACTGCAGGAACGCTATGGGAAAGAGGCTGTGAGGCCCTCTGCTG
TTGGTGAAGGCAAGGGGATCCCCAGGAGACGTAATCCCCACTCCCCTGGCTCCATGCCATTGGCAGA
AGTGGAGCTGAAATGGGAAATGGAGCGAGAAGAAAAAATTGCTCTGGGAGCAGCTACAAGGCTTAGAG
AGCTCAAAGCAAGCTGAAACCTCCAGACTACAGGAGGAACCTTGCTAAGCTCTCTGAGAAATTTGAAAAA
AACAAGAAAGTTTTTGGCGTCTGCAGACAGAGAAGGAAACACTGTTAATGACAGCAGAAAACAAATTTGA
AGAATTGCAACAGCGGAAGGAAGCTGATCTGAAAGCCAGTTGGCTCGCACCCAAAAACTACAGCAGGAA
CTTGAGGCTGCCAATCAGAGTTTGGCAGAGCTAAGAGATCAGCGGCAGGGGGAGCGTCTGGAGCATGCAG
CAGCGTTGCGGGCCCTACAAGATCAGGTGTCCAGCCAGAGTGCAGATGCGCAGGAACAAGTGAAGGGCT
CTTGGCTGAGAACAGTGCCTTGAAGACTAGCTTGGCTGCTCTGGAGCAGATCCAGACAGCAAAGACACAA
GAAGTGAATATGCTTCGGGAACAGACCAGTGAATTGGCATCTGAGTTACAGCATCGTCAAGCTGAATATG
AAGAGCTTATGGGACAGAAAGATGACCTCAACTCGCAGCTCCAGGAGTCGTTAAGGGCAATAGCCGCAAT
GCTGGAACAACCTCAAGAAATAGGGCAGGAGAAGGAGCAGCTAATCCAGGATCTCCAGGAAGCTCGGAAG
AGTGCCGAGAAAAAGGAAGTCTGCTGGATGAACTAGCCATGGAGACGCTGCAGGAGAAGTCCCAGCACA
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TGAGCTTCGAGAAGTGCACGAGGACAAGAAGCGGCAGGAGGAGGAGCTCCGGGGCAGATTCGTGAGGAG
AAGGCTCGAACAGGGAATTAGAAAATCTTCAGCACACAGTGAAGAAGTCCAGGCTCAGGTACTCTCA
TGGATGGAGCCAAGGGCTGGTTTGAACGGCGCTTGAAGGAAGCTGAGGAATCTTTCAGCAGCAGCAACA
GGAACAAGAGGAAACCTCAAGCTGTGCCGGGAGGAGCAGCCGCTGAGCTGAAGGGCAAGGATGAAGAG
CTTCAGAAATGTTCCGGAACAGCTCCAGCAGGCCAGGAGGAGCGAGATGGCCACGTGAAGACCATCAGCA
ACCTGAAGCAGGAGGTAAGGACACAGTACAGCGGCAGCGCATCCTGGAGAAGAAAGGCAGCGCTGTGCT
CAAAGATCTTAAGCGGCAGCTGCACTTGGAGCGGAAACGGGCTGATAAGCTGCAGGAACGGCTGCAGGAG
ATCCTTACCAACAGCAAGAGCCGCACAGGCCTCGAGGAGCTGGTTCTGTCTGAGATGAACTCACCAAGCA
GGACCCAGACAGGGGACAGCAGTGTGTCTCCTCCTCAGCTACCGGGAGATCTTGAAGGAGAAGGAGAG
TTCAGCCATCCCAGCCAGGTCTCTATCCAGCAGTCTCAGGCCAGCCCTCGGCCAGCAGAGCTGTCA
GATGAGGAAGTGGCTGAGCTGTTTTCAGAGGCTGGCCGAGACTCAGCAGGAAAAATGGATGCTAGAGGAGA
AGGTGAAACACCTGGAGGTGAGCAGCGCCTCTATGGCGGAAGATCTCTGCCGAAAAGCGCCATCATTGA
GACCTACGTGATGGACAGCCGGATTGATGTGTCTGTGGCAGCAGGCCACACAGACCGAAGTGGGCTGGGC
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TGTGGAGGAGCAACTACCAAGAACATGCACTTGCACAAGGACATGGAAGTTCTATCCCAGGAAATTTG
GCGGCTCAGCAAGGAATGTGTGGGTCCCTGACCCAGACCTAGAACCTGGAGAAGCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231233 representing NM_001290455
 Red=Cloning site Green=Tags(s)

MAQALSEEEFQRMQTQLLELRTNNYQLSDELKNGVELSSLRQKVAYLDKEFSKAQKALSKSKKAQEVEV
 LLSENEMLQAKLHSQEEDFRLQNSTLMAEFSKLCSQLELELENRQLKEGVPGAAGAHVDGELLRLQAEN
 TALQKNMAALQERYGKEAVRPSAVGEGQDPPGDVLPPLAPMPLAEVELKWEMEREKLLWEQLQGLE
 SSKQAETSRLQEELAKLSEKLEKKEQESFCRLQTEKETLFNDSRNKIEELQQRKEADLKAQLARTQKLQQE
 LEAANQSLAELRDQRQGERLEHAAALRALQDQVSSQSADAQEVEGLLAENSALRTSLAALAEQIQTAKTQ
 ELNMLREQTSELASELQHRQAEYEELMGQKDDLNSQLQESLRANSRLLEQLQEIGQEKEQLTQDLQEAR
 SAEKRKVMLDELAMETLQEKSQHKEELGAVRLRHEKELLGVRARYERELRELHEDKKRQEEELRGQIREE
 KARTRELENLQHTVEELQAQVHSMGAKGWFERRLKEAEESSQQQQEQEETLKLCEEHAAELKGDDEE
 LQNVREQLQQAQEERDGHVKTISNLKQEVKDTVQQRILEKKGSAVLKDLKRQLHLERKRADKLQERLQE
 ILTNSKSRTGLEELVLSMNPSRTQTGDSSSVSSFSYREILKEKESSAIPARLSSSPQAQPPRPAELS
 DEEVAELFQRLAETQQEKWMLEEKVKHLEVSSASMAEDLCRKSIIETYVMSRIDVSVAAAGHTDRSGLG
 SVLRDLVKPGDENLREMNNKLQNMLEEQLTKNMHLHKDMEVLSQEIIVRLSKECVGSPDPDLEPGEAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

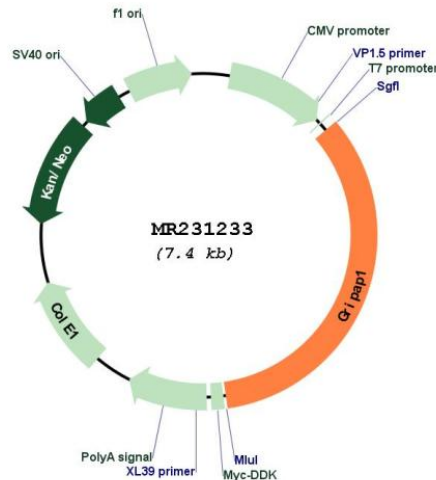
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001290455

ORF Size: 2511 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_001290455.1](#), [NP_001277384.1](#)

RefSeq Size: 3021 bp

RefSeq ORF: 2514 bp

Locus ID: 54645

Cytogenetics: X 3.51 cM

MW: 96.4 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]