

Product datasheet for **MC229022**

Gripap1 (NM_001290455) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gripap1 (NM_001290455) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC229022 representing NM_001290455
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAAGCTCTGTCTGAAGAGGAGTTTCAACGGATGCAGACTCAGCTCCTGGAGCTCCGGACAATA
 ACTACCAGCTTTTCGGATGAACCTTCGGAAGAATGGTGTGAACCTTCCAGTCTTCGACAGAAGGTCGCCTA
 CCTGGATAAAGGAGTTCAGTAAAGCTCAAAAGGCACTAAGCAAGAGCAAGAAAGCTCAGGAAGTGGAGGTA
 CTGCTGAGTGAATAAGATGCTGCAGGCAAGCTGCACAGCCAGGAGGAGGACTTCCGTTTGCAGAACA
 GTACACTTATGGCCGAGTTCAGCAAGCTTTCAGCCAGCTGGAGCAGCTGGAGCTGGAAAACCGACAAC
 CAAGGAAGGCGTTCCTGGAGCAGCTGGAGCACATGTGGACGGGGAGCTGCTGAGGCTGCAGGCAGAGAAC
 ACAGCCTTGCAGAAGAACATGGCAGCACTGCAGGAACGCTATGGGAAAGAGGCTGTGAGGCCCTCTGCTG
 TTGGTGAAGGCCAAGGGGATCCCCAGGAGACGTAATCCCCACTCCCCTGGCTCCATGCCATTGGCAGA
 AGTGGAGCTGAAATGGGAAATGGAGCGAGAAGAAAAAATTGCTCTGGGAGCAGCTACAAGGCTTAGAG
 AGCTCAAAGCAAGCTGAAACCTCCAGACTACAGGAGGAACCTTGCTAAGCTCTCTGAGAAATGAAAAAGA
 AACAAGAAAGTTTTTGGCGTCTGCAGACAGAGAAGGAAACACTGTTAATGACAGCAGAAAACAAAATTGA
 AGAATTGCAACAGCGGAAGGAAGCTGATCTGAAAGCCAGTTGGCTCGCACCCAAAAACTACAGCAGGAA
 CTTGAGGCTGCCAATCAGAGTTTGGCAGAGCTAAGAGATCAGCGGCAGGGGGAGCGTCTGGAGCATGCAG
 CAGCGTTGCGGGCCCTACAAGATCAGGTGTCCAGCCAGAGTGCAGATGCCAGGAACAAGTGAAGGGCT
 CTTGGCTGAGAACAGTGCCTTGAAGACTAGCTTGGCTGCTCTGGAGCAGATCCAGACAGCAAGACACAA
 GAAGTGAATATGCTTCGGGAACAGACCAGTGAATTGGCATCTGAGTTACAGCATCGTCAAGCTGAATATG
 AAGAGCTTATGGGACAGAAAGATGACCTCAACTCGCAGCTCCAGGAGTCTTAAGGGCAATAGCCGGCT
 GCTGGAACAACCTCAAGAAATAGGGCAGGAGAAGGAGCAGCTAACCAGGATCTCCAGGAAGCTCGGAAG
 AGTGCCGAGAAAAGGAAGGTCTGCTGGATGAACTAGCCATGGAGACGCTGCAGGAGAAGTCCCAGCACA
 AAGAAGAAGTGGGGCCGTCCGTTACGGCACGAGAAGGAGCTGCTGGCGTGGCAGCCGATACGAGCG
 TGAGCTTCGAGAAGTGCACGAGGACAAGAAGCGGCAGGAGGAGGAGCTCCGGGGCAGATTCGTGAGGAG
 AAGGCTCGAACAAGGGAATTAGAAAATCTTCAGCACACAGTGAAGAAGTCCAGGCTCAGGTACTCTCA
 TGGATGGAGCCAAGGGCTGGTTTGAACGGCGCTTGAAGGAAGTGAAGAACTTTTGCAGCAGCAGCAACA
 GGAACAAGAGGAAACCTCAAGCTGTGCCGGGAGGAGCAGCCGCTGAGCTGAAGGGCAAGGATGAAGAG
 CTTGAGAAATGTTCCGGAACAGCTCCAGCAGGCCAGGAGGAGCGAGATGGCCACGTGAAGACCATCAGCA
 ACCTGAAGCAGGAGGTAAGGACACAGTACGACGGCAGCGCATCCTGGAGAAGAAAGGCAGCGCTGTGCT
 CAAAGATCTTAAGCGGCAGCTGCACTTGGAGCGGAAACGGGCTGATAAGCTGCAGGAACGGCTGCAGGAG
 ATCCTTACCAACAGCAAGAGCCGCACAGGCCTCGAGGAGCTGGTTCTGTCTGAGATGAACTCACCAAGCA
 GGACCCAGACAGGGGACAGCAGTGTGTCTCCTCCTCAGCTACCGGGAGATCTTGAAGGAGAAGGAGAG
 TTCAGCCATCCCAGCCAGGTCTCTATCCAGCAGTCTCAGGCCAGCCCTCGGCCAGCAGAGCTGTCA
 GATGAGGAAGTGGCTGAGCTGTTTTCAGAGGCTGGCCGAGACTCAGCAGGAAAAATGGATGCTAGAGGAGA
 AGGTGAAACACCTGGAGGTGAGCAGCGCCTCTATGGCGGAAGATCTCTGCCGAAAAGCGCCATCATTGA
 GACCTACGTGATGGACAGCCGGATTGATGTGTCTGTGGCAGCAGGCCACACAGACCGAAGTGGGCTGGGC
 AGTGTCTGAGAGACCTAGTGAAGCCAGGCGATGAGAACCTTCGAGAAATGAACAAGAAGCTGCAGAACA
 TGTGGAGGAGCAACTACCAAGAACATGCACTTGCACAAGGACATGGAAGTTCTATCCCAGGAAATGT
 GCGGCTCAGCAAGGAATGTGTGGGTCCCTGACCCAGACCTAGAACCTGGAGAAGCCAAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290455
Insert Size: 2514 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001290455.1, NP_001277384.1</u>
RefSeq Size:	3021 bp
RefSeq ORF:	2514 bp
Locus ID:	54645
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]