

## Product datasheet for **RN203160**

### Gripap1 (NM\_053807) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gripap1 (NM_053807) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gripap1
Synonyms:	Grasp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN203160 representing NM\_053807  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCAAGCTCTGTCTGAAGAGGAGTTCAACGGATGCAGACACAGCTCCTGGAACCCGGACAATA  
 ACTACCAGCTTTCAGATGAACTCCGGAAGAATGGTGTGAACTTCCAGTCTTCGACAGAAGGTCGCCTA  
 CCTGGATAAGGAATTCAGTAAAGCTCAAAGGCACTAAGCAAGAGCAAGAAAGCTCAGGAAGTGGAGGTA  
 CTGCTGAGTGA AAAAGAGATGCTGCAGGCAAAGCTGCACAGCCAGGAGGAGGACTCCGTTTGCAGAACA  
 GTACACTTATGGCCGAGTTCAGCAAGCTCTGCAGCCAGCTGGAGCAGCTGGAGCTGGAGAACCGACAAC  
 CAAGGAAGGGGTTCTGGAGCAGCTGGACCACATGTGGACGGGGAGCTGTGAGGCTGCAGGCAGAGAAC  
 ACAGCCTTGCAGAAGAACATGGCAGCACTGCAGGAGCGCTATGGGAAAGAGGCTGTGAGGCCCTCCGCTG  
 TCAGTGAGGGCCAAGGAGATCCACCAGGAGATGTACTCCCATTTCTTGTCTCCATGCCATTGGCAGA  
 AGTGGAGCTGAAGTGGGAAATGGAGAGAGAAGAAAAAAGTTGCTTTGGGAACAGCTACAAGGCTTAGAG  
 AGCTCAAAGCAAGCTGAAACCTCCAGACTCCAGGAGGAACCTTGCTAAGCTCTCTGAGAAAATGAAAAAGA  
 AACAGGAAAGTTTTTGGCGTCTACAGACAGAGAAGGAAACACTGTTAATGATAGCAGGAACAAAATTTGA  
 AGAATTGCAACAACGGAAGGAAGCTGATCTGAAAGCCAGTTGGCTCGCACCCAAAAACTACAGCAGGAA  
 CTTGAGGCTGCCAATCAGAGCTTGGCAGAGCTAAGAGATCAGCGGCAGGGGGAGCGTCTGGAGCATGCAG  
 CAGCACTGCGGGCCCTACAAGATCAGGTGTCCAGCCAGAGTGCAGATGCCAGGAACAAGTGAAGGGCT  
 ATTTGGCTGAGAACAATGCCTTGAGGACTAGCTTGGCCGCTCTGGAGCAGATCCAGACAGCAAAGACACAG  
 GAACTGAATATGCTTCGGAACAGAACACTGAACTCCAGCTCCAGGAGTCGTTAAGGGCCAATAGCCGGCT  
 GCTGGAACAACACTACAAGAAATGGGGCAGGAGAAGGAGCAGCTGATCCAGGATCTCCAGGAAGCTCGGAAG  
 AGTGCTGAGAAAAGGAAGGTCATGCTGGATGAGCTAGCCATGGAGACACTGCAGGAGAAGTCCCAGCACA  
 AAGAAGAATTGGGGGCTGTCCGTTACGGCATGAGAAGGAGATGCTGGGGTGGAGCCGTTATGAGCG  
 GGAGCTTCGAGAAGTGCATGAGGACAAGAAACGGCAGGAGGAGGAGCTCCGGGGGAGATTCGTGAGGAG  
 AAGGCTCGAACAAGGGAATTAGAAAATCTTCAGCACACAGTGGAAAGAACTTCAGGCTCAGGTACTTCCA  
 TGGATGGAGCCAAGGGCTGGTTTGAACGGCGCCTGAAGGAAGCTGAGGAATCCTTACTGCAGCAAGAGCA  
 GGAACAGGAGGAAACCTCAAGCAGTCCCGGGAGCAGCACGCTGCCGAGCTGAAGGGCAAGGAGGAAGAG  
 CTTCAGAAATGTTGAGATCAGCTCCAGCAGGCCAGGAAGAGCGAGATGGCCATGTGAAGACCATCAGCA  
 ACCTGAAGCAGGAGGTAAGGACACAGTGGACGGCAGCGGATCCTGGAAAAGAAAGGCAGTGTGTGCT  
 CAAAGACCTTAAGAGGCAGCTGCACCTAGAGCGGAAGCGGGCTGATAAGCTGCAGGAACGGCTGCAGGAG  
 ATCCTGACTAACAGCAAGAGCCGCACAGGCCTTGGAGAGCTGGTTCTCTCTGAGATGAACTCACCAAGCA  
 GGACCCAGACAGGGGACAGCAGTAGCGTCTCCTCCTCAGTACCGGGAGATCTTGAAGGAAAAGGAGAG  
 TTCAGCCATCCCAGCCAGGTCTCTATCCAGCAGTCTCAGGCGCAGCCCCCTCGGCCAGCAGAGCTGTCA  
 GATGAGGAAGTGGCTGAGCTGTTTTCAGAGGCTGGCCGAGACACAGCAGGAGAAAATGGATGCTGGAGGAGA  
 AGGTGAAACACCTGGAGGTGAGCAGCGCCTCGATGGCGGAAGACCTCTGTGCGAAAAGTGCATCATTGA  
 GACCTACGTGATGACAGCCGGATTGATGTCTGTGGCAGCAGGCCACACAGCCGAAGTGGGCTGGGC  
 AGTGTCTGAGAGACCTAGTGAAGCCCGCGATGAGAACCTTCGGGAAATGAACAAGAAGCTGCAGAACA  
 TGTGGAGGAGCAACTACCAAGAACATGCACTTGCACAAGGACATGGAAGTTCTATCCCAAGAAATTTG  
 GCGGCTCAGCAAGGAATGCGTGGGGTCCCTGACCCAGACCTAGAACCTGGAGAAGCCAAC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_053807  
**Insert Size:** 2514 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_053807.1</a> , <a href="#">NP_446259.1</a>
<b>RefSeq Size:</b>	3057 bp
<b>RefSeq ORF:</b>	2514 bp
<b>Locus ID:</b>	116493
<b>UniProt ID:</b>	<a href="#">Q9JHZ4</a>
<b>Cytogenetics:</b>	Xq12
<b>Gene Summary:</b>	a neuronal rasGEF that may regulate neuronal ras signaling and contribute to the regulation of AMPA receptor distribution by NMDA receptor activity [RGD, Feb 2006]