

## Product datasheet for MC229326

### Grip1 (NM\_001277292) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Grip1 (NM\_001277292) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Grip1  
**Synonyms:** 4931400F03Rik; eb; GRIP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229326 representing NM\_001277292  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGCCGGGCTGGAAGAAGAACATCCCCATCTGCTTACAAGCGGAGGAGCAGGAGAGAGATGAGAGTCCCT  
 AACTAAATCTGCCAGCCAGACAAAGCCGCCGATGGAGCATTGGCTGTGAGGAGACAGAGCATCCAGAG  
 GGAATTAAGGGCTCCACAGTGGTGGAGTTGATGAAGAAGGAGGGAACCACTCTTGGCCTGACGGTATCG  
 GGAGGCATTGATAAAGATGGCAAGCCAAGAGTGTCCAACCTGCGGCAGGGAGGAATCGCTGCCAGAAGTG  
 ACCAGCTGGATGTGGGCGACTACATCAAGGCGGTGAATGGGATCAACCTGGCCAAGTTCGCCACAGTGA  
 GATCATCAGCCTGCTGAAAAATGTGGGGAAAGAGTGGTCTGGAGGTCGAGTACGAGCTTCCACCGGTC  
 TCTGTACAAGGATCCAGTGTTATGTTCCGAAGTGTGGAGGTCACGCTGCACAAAGAAGGCAACACCTTTG  
 GTTTTGTCATCCGAGGGGAGCGCATGATGACAGGAACAAGTCCCGTCCGGTTGTGATAACCTGTGTTCC  
 TCCTGGAGGGCCTGCTGACAGAGAGGGCACCATCAAACCTGGAGACAGGTTGCTCAGCGTGGATGGAATT  
 CGGCTCCTGGGAACCCATGCCGAGGCCATGAGCATCCTTAAACAGTGGGACAAGAAGCCACGCTGC  
 TGATAGAATACGATGCTCTGTGATGGATTCTGTGGCGACAGCATCCGGGCCACTACTAGTTGAAGTTGC  
 CAAAACCTCAGGTGCCAGCCTTGGGGTTGCCCTAACTACCTCCGTGTGCTGTAACAAGCAGGTCAATGTC  
 ATAGACAAAATCAAATCTGCAAGCATTGCGGACAGATGTGGCGCCTACACGTGGGAGACCACATCCTCT  
 CCATTGACGGCACGAGTATGGAGTACTGTACCCTCGCAGAAGCGACCCAGTTCCTGGCCAATACCACTGA  
 CCAGGTCAAGCTGGAGATTCTCCACACCATCAGACCCGCTGGCCCTAAAGGGCCCTGACCATGCGGCT  
 ATGGTGCCTCATCTTCTCCTACCTCCATGAGTGCCTACAGTCTGAGTTCCTGAACATGGGGACTTTAC  
 CTCGAAGCCTCTACTCCACCAGCCACGAGGAACCATGATGAGGAGGAGACTGAAAAGAAAGACTTCAA  
 AAGCTCACTGTCTTAGCCTCCAGCACTGTGGGTTGGCTGGCCAGGTCGTTCACTGAAACCACAGAG  
 GTTGTGCTGACGGCTGACCCTGTACGGGCTTCGGAATCCAACGAGGGCAGCGTGTGGCCACAGAGA  
 CGCTCTCCTCTCCGCCTCTGATTTCTATATTGAAGCTGACAGCCAGCAGAGAGATGTGGTGTGCTACA  
 GATTGGAGACAGAGTCATGGCCATTAATGGAATCCAACAGAAGACAGCACCTTCGAGGAAGCCAATCAA  
 CTCCTGAGAGACTCTCCATCAGAGCAAAGTCACTAGAAATCGAGTTTGTGTTGCAGAGTCTGTCA



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TCCCAAGTAGTGGAAACATTTTCATGTAAAACGCCCCAAGAAGCACAGCGTGGAACTTGAATAACCATCAG
TTCGCCATCCAGTAGAAAACCGGGGACCCCTTGTTCATTTTCAGATATCAAGAAAGGCAGTGTGGCACAC
AGAACCGGAACTCTGAACTGGGAGACAACTGCTTGGGATAGATAACATCCGGCTGGATAACTGTTCCA
TGGAAGATGCGGTCCAGATCCTCCAGCAGTGTGAAGACCTGGTGAAGCTCAAATCCGCAAAGATGAAGA
TAACTCAGACGAGCAAGAGAGTTCGGGAGCGATTATTTACACGGTGGAGCTGAAGCGCTATGGGGGGCCC
CTTGGCATCACAATTTCTGAACTGAAGAGCCGTTTGTCTTATCATCTCGAGCCTCACTAAAGGGG
GATTAGCTGAAAGGACTGGAGCGATCCACATCGGAGATAGAATCCTAGCCATCAATAGCAGCAGCTTGAA
GGGAAGCCTCTGAGTGAAGCCATCCACTTGTCCAGATGGCAGGAGAGACTGTCACCCTGAAAATTAAG
AAACAGACAGATGCCAATCTGCATCAAGTCCCAAGAAGTTCCTCCATCCCTGGCCACTCGGGGGACCTAG
GAGATGGTGGAGGAGACCCCTCCCAATACAGAAACCTGGCAAGCTCTCCGATGCGTACCCTCCACGGT
GCCCAGCGTGGACAGTGTGTGGACTCTGGGATGGGTCTGGAATAGATGCCAGCTATGGGAGTCAAGGC
TCAACTTTTCAGACTTCAGGATACAATTACAACACCTATGATTGGAGGAGTCCAAAGCAAAGAACCAGCC
TGTCACAGTCCCAAGCCTCGAAGCCAGACGTACCCAGATGTGGCCTGAGTAATGAAGACTGGGATCG
ATCCACAGCCAGTGGCTTTGTAGGGCTTCTGACAGTGCAGATGTGAACAAGAGGAAAACCTTCTGGTCT
CAAGCATTGGAGGACCTGGAGACCTGCGGCCAGTCGGGGATCCTGAGAGACTTGAGGCAACAATCATGT
CGGGGAGTACTATGAGTTTGAATCATGAGGCTCCAATGGCTCGCAGTCACTGGGCGACAGGCCAGCTT
CCAGGAACGGAGCAGTTCACGGCCACACTATAGCCAAACAACCTCGCAGCAACACCCTGCCCTCAGACGTG
GGCAGAAAGTCTGTAACCCTGCGGAAAATGAAGCAAGAAAATAAGGAGATCATGTCCCAACTCCGGTGG
AGCTACACAAGGTGACCTTATACAAGGACTCTGGCATGGAGGACTTCGGGTTTCAGTGTGGCAGATGGCCT
GCTGGAGAAAGGCGTGTATGTCAAAAATATCCGCCAGCTGGGCCAGGTGATGTTGGGGGCTTGAAGCCC
TACGACAGGCTCTTACAGGTAATCACGTGCGGACGAGAGACTTTGACTGCTGCCTGGTGGTGCCTCTCA
TAGCTGAATCTGGCAACAAGCTGGACCTGGTTATTAGCAGAAATCCACTGGCCTCCAGAAAGTCGATAGA
ACAGCCGGCTCTGCCAGCGACTGGAGCGAACAGACGCGCTTCTTCCAGCAACCCAGCCACGGTGGT
AATCTAGAGACACGAGAACCCTAACACACTA TAG
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001277292
- Insert Size:** 3186 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:**
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\\_001277292.1](#), [NP\\_001264221.1](#)

RefSeq Size: 5161 bp

RefSeq ORF: 3186 bp

Locus ID: 74053

UniProt ID: [Q925T6](#)

Cytogenetics: 10 67.33 cM

**Gene Summary:** This gene encodes a protein containing multiple PDZ (post synaptic density protein, Drosophila disc large tumor suppressor, and zonula occludens-1 protein) domains. The encoded protein acts as a mediator between cytoskeletal and membrane proteins, particularly in neuronal cells, and facilitates complex formation at the cell membrane. Mutation of this gene can cause embryonic lethality resulting from defects of the dermo-epidermal junction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Transcript Variant: This variant (4) contains multiple differences, compared to variant 1, including the lack of multiple exons. It represents use of an alternate promoter and initiates translation at an alternate start codon. The encoded isoform (4) is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.