

## Product datasheet for MC229325

### Grip1 (NM\_001277294) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Grip1 (NM\_001277294) 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:** >MC229325 representing NM\_001277294  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATAGCTGTCTCTTTAAATGCCGCTGTCAAATTCTAAGGCGACTTACCAAAGATGAGAGTCCCTACA  
 CTAATCTGCCAGCCAGACAAAGCCGCCGATGGAGCATTGGCTGTGAGGAGACAGAGCATCCCAGAGGA  
 ATCAAGGGCTCCACAGTGGTGGAGTTGATGAAGAAGGAGGGAACCACTTTGGCCTGACGGTATCGGGA  
 GGCAATTGATAAAGATGGCAAGCCAAGAGTGTCCAACCTGCGGCAGGGAGGAATCGCTGCCAGAAGTGACC  
 AGCTGGATGTGGGCGACTACATCAAGGCGGTGAATGGGATCAACCTGGCCAAGTTCCGCCACGATGAGAT  
 CATCAGCCTGCTGAAAAATGTCGGGAAAGAGTGGTCTGGAGGTCGAGTACGAGCTTCCACCGGTCTCT  
 GTACAAGGATCCAGTGTATGTTCCGAAGTGTGGAGGTCACGCTGCACAAAGAAGGCAACACCTTTGGTT  
 TTGTCATCCGAGGGGGAGCGCATGATGACAGGAACAAGTCCCCTCCGGTGTGATAACCTGTGTTTCGTCC  
 TGGAGGGCCTGCTGACAGAGAGGGCACCATCAAACCTGGAGACAGGTTGCTCAGCGTGGATGGAATTCGG  
 CTCCTGGGAACCCCATGCCGAGGCCATGAGCATCCTTAAACAGTCCGGACAAGAAGCCACGCTGCTGA  
 TAGAATACGATGTCTGTGATGATTCTGTGGCAGAGCATCCGGCCACTACTAGTTGAAGTTGCCAA  
 AACTCCAGGTGCCAGCCTTGGGGTTGCCCTAACTACCTCCGTGTGCTGTAACAAGCAGGTCATTGTCATA  
 GACAAAATCAAATCTGCAAGCATTGCGGACAGATGTGGCGCGCTACACGTGGGAGACCACATCCTCTCCA  
 TTGACGGCAGGATGAGTACTGTACCTCGCAGAAGCGACCCAGTTCCTGGCCAATACCACTGACCA  
 GGTCAAGCTGGAGATTCTCCACACCATCAGACCCGCCTGGCCCTAAAGGGCCCTGACCATGCGGCTATG  
 GTGCCCTCATCTCTCTACCTCCATGAGTGGTACAGTCTGAGTTCCCTGAACATGGGGACTTTACCTC  
 GAAGCCTCTACTCCACCAGCCCACGAGGAACCATGATGAGGAGGAGACTGAAAAAGAAAGACTTCAAAG  
 CTCACTGTCTTTAGCCTCCAGCACTGTGGGGTTGGCTGGCCAGGTCGTTACACTGAAACCACAGAGGTT  
 GTGCTGACGGCTGACCCTGTACGGGCTTCGGAATCCAACCTGCAGGGCAGCGTGTTCACACAGAGACGC  
 TCTCCTCTCCGCCTCTGATTTCCCTATATTGAAGCTGACAGCCCAGCAGAGAGATGTGGTGTGCTACAGAT  
 TGGAGACAGAGTCATGGCCATTAATGGAATCCCAACAGAAGACAGCACCTTCGAGGAAGCCAATCAACT  
 CTGAGAGACTCTCCATCAGGACAAAGTCACACTAGAAATCGAGTTTGTGTTGACAGAGTCTGTGATCC



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CAAGTAGTGGAACATTTTCATGTAAAACCTGCCAAGAAGCACAGCGTGGAACCTGGAATAACCATCAGTTC  
 GCCATCCAGTAGAAAACCGGGGACCCCTTGTCATTTTCAGATATCAAGAAAGGCAGTGTGGCACACAGA  
 ACCGGAACCTCTGGAACCTGGGAGACAACTGCTTGGCATAGATAACATCCGGCTGGATAACTGTTCCATGG  
 AAGATGCGGTCCAGATCTCCAGCAGTGTGAAGACCTGGTGAAGCTCAAATCCGCAAAGATGAAGATAA  
 CTCAGACGAGCAAGAGAGTTCGGAGCGATTATTTACACGGTGGAGCTGAAGCGCTATGGGGGGCCCTT  
 GGCATCACAATTTCTGGAACCTGAAGACCGTTTGTATCTATTATCATCTCGAGCCTCACTAAAGGGGGAT  
 TAGCTGAAAGGACTGGAGCGATCCACATCGGAGATAGAATCCTAGCCATCAATAGCAGCAGCTTGAAGGG  
 GAAGCCTCTGAGTGAAGCCATCCACTTGCTCCAGATGGCAGGAGAGACTGTCACCCTGAAAATTAAGAAA  
 CAGACAGATGCCCAATCTGCATCAAGTCCCAAGAAGTTCCCATCCCTGGCCACTCGGGGACCTAGGAG  
 ATGGTGGAGGAGCCCTCCCAATACAGAAACCTGGCAAGCTCTCCGATGCGTACCCTCCACGGTGCC  
 CAGCGTGGACAGTGTGTGGACTCTGGGATGGGTCTGGAATAGATGCCAGCTATGGGAGTCAAGGCTCA  
 ACTTTTCAGACTTCAGGATACAATTACAACACCTATGATTGGAGGAGTCCAAAGCAAAGAACCAGCCTGT  
 CCCCAGTCCCAAGCCTCGAAGCCAGACGTACCCAGATGTGGCCTGAGTAAAGACTGGGATCGATC  
 CACAGCCAGTGGCTTTGTAGGGCTTCTGACAGTGCAGATGCTGAACAAGAGGAAAACCTTCTGGTCTCAA  
 GCATTGGAGGACCTGGAGACCTGCGGCCAGTGGGGATCCTGAGAGAGCTTGAGGCAACAATCATGTCGG  
 GGAGTACTATGAGTTGAATCATGAGGCTCCAATGGCTCGCAGTCACTGGGGCGACAGGCCAGCTTCCA  
 GGAACGGAGCAGTTCACGGCCACACTATAGCCAAACAACCTCGCAGCAACACCCTGCCCTCAGACGTGGGC  
 AGAAAAGTCTGTAACCCTGCGGAAAATGAAGCAAGAAAATAAGGAGATCATGTCCCAACTCCGGTGGAGC  
 TACACAAGGTGACCTTATACAAGGACTCTGGCATGGAGGACTTCGGGTTCAAGTGTGGCAGATGGCCTGCT  
 GGAGAAAGGCGTGTATGTCAAAAATATCCGCCAGCTGGGCCAGGTGATGTTGGGGGCTTGAAGCCCTAC  
 GACAGGCTCTTACAGGTAATCACGTGCGGACGAGAGACTTTGACTGTGCCTGGTGGTGCCTCTCATAG  
 CTGAATCTGGCAACAAGCTGGACCTGGTTATTAGCAGAAAATCCACTGGCCTCCAGAAAGTCGATAGAACA  
 GCCGGCTCTGCCAGCGACTGGAGCGAACAGAACAGCGCTTTCTCCAGCAACCCAGCCACGGTGGTAAT  
 CTAGAGACACGAGAACCCTAACACACTATAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001277294
- Insert Size:** 3183 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\\_001277294.1](#), [NP\\_001264223.1](#)

RefSeq Size: 5018 bp

RefSeq ORF: 3183 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 (6) lacks two alternate in-frame exons, compared to variant 1. The encoded isoform (6) is shorter than 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.