

Product datasheet for MC229379

Grip1 (NM_001277293) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grip1 (NM_001277293) 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:	>MC229379 representing NM_001277293 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGGGCTGGAAGAAGAACATCCCCATCTGCTTACAAGCGGAGGAGCAGGAGAGAGATGAGAGTCCCT
ACACTAAATCTGCCAGCCAGACAAAGCCGCCGATGGAGCATTGGCTGTGAGGAGACAGAGCATCCCAGA
GGAATTC AAGGGCTCCACAGTGGTGGAGTTGATGAAGAAGGAGGGAACCACTCTTGGCCTGACGGTATCG
GGAGGCATTGATAAAGATGGCAAGCCAAGAGTGTCCAACCTGCGGCAGGGAGGAATCGCTGCCAGAAGTG
ACCAGCTGGATGTGGGCGACTACATCAAGGCGGTGAATGGGATCAACCTGGCCAAGTTCGCCACAGTGA
GATCATCAGCCTGCTGAAAAATGTGGGGAAAGAGTGGTCTGGAGGTCGAGTACGAGCTTCCACCGGTC
TCTGTACAAGGATCCAGTGTTATGTTCCGAAGTGTGGAGGTCACGCTGCACAAAGAAGGCAACACCTTTG
GTTTTGTCATCCGAGGGGAGCGCATGATGACAGGAACAAGTCCCGTCCGGTTGTGATAACCTGTGTTCC
TCCTGGAGGGCCTGCTGACAGAGAGGGCACCATCAAACCTGGAGACAGGTTGCTCAGCGTGGATGGAATT
CGGCTCCTGGGAACCCATGCCGAGGCCATGAGCATCCTTAAACAGTGGCACAAGAAGCCACGCTGC
TGATAGAATACGATGCTCTGTGATGGATTCTGTGGCGACAGCATCCGGGCCACTACTAGTTGAAGTTGC
CAAACTCCAGGTGCCAGCCTTGGGGTTGCCCTAACTACCTCCGTGTGCTGTAACAAGCAGGTCAATGTC
ATAGACAAAATCAAATCTGCAAGCATTGCGGACAGATGTGGCGCCTACACGTGGGAGACCACATCCTCT
CCATTGACGGCACGAGTATGGAGTACTGTACCCTCGCAGAAGCGACCCAGTTCCTGGCCAATACCACTGA
CCAGGTCAAGCTGGAGATTCTCCACACCATCAGACCCGCTGGCCCTAAAGGGCCCTGACCATGTGAAA
ATTCAGAGGAGCGACAGACAACATCCCTGGGATGCCTGGGCCAGCAACCAGTGGCGGTTTACATCAACCC
ATCACCATAACACGTACCACCCAGACATTGCAGAGTCCAGCCCTGACTTTCCCGAAAGCGCTTCTCCTC
AAACAGCCCTCCGGCTATGGTCCCCTCATCTTCTCCTACCTCCATGAGTGCCTACAGTCTGAGTTCCCTG
AACATGGGGACTTACCTCGAAGCCTCTACTCCACCAGCCACGAGGAACCATGATGAGGAGGAGACTGA
AAAAGAAAGACTTCAAAAGCTCACTGTCTTTAGCCTCCAGCACTGTGGGGTTGGCTGGCCAGGTCGTTCA
CACTGAAACCACAGAGGTTGTGCTGACGGCTGACCCTGTACGGGCTTCGGAATCCAACGCAGGGCAGC
GTGTTTCCACAGAGACGCTCTCCTCTCCGCTCTGATTCTATATTGAAGCTGACAGCCAGCAGAGA



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GATGTGGTGTGCTACAGATTGGAGACAGAGTCATGGCCATTAATGGAATCCCAACAGAAGACAGCACCTT
 CGAGGAAGCCAATCAACTCCTGAGAGACTCTTCCATCACGAGCAAAGTCACACTAGAAATCGAGTTTGAT
 GTTGACAGAGTCTGTATCCCAAGTAGTGGAAACATTTTCATGTAAAACCTGCCAAGAAGCACAGCGTGGAAAC
 TTGGAATAACCATCAGTTCGCCATCCAGTAGAAAAACGGGGGACCCCTTGTCATTTTCAGATATCAAGAA
 AGGCAGTGTGGCACACAGAACCAGAACTCTGGAAGTGGGAGACAACTGCTTGCATAGATAACATCCGG
 CTGGATAACTGTTCCATGGAAGATGCGGTCCAGATCCTCCAGCAGTGTGAAGACCTGGTGAAGCTCAAAA
 TCCGCAAAGATGAAGATAACTCAGACGAGCAAGAGAGTTCCGGAGCGATTATTTACACGGTGGAGCTGAA
 GCGCTATGGGGGGCCCTTGGCATCACAATTTCTGGAAGTGAAGAGCCGTTTGATCCTATTATCATCTCG
 AGCCTCACTAAAGGGGGATTAGCTGAAAGGACTGGAGCGATCCACATCGGAGATAGAATCCTAGCCATCA
 ATAGCAGCAGCTTGAAGGGGAAGCCTCTGAGTGAAGCCATCCACTTGCTCCAGATGGCAGGAGAGACTGT
 CACCCTGAAAATTAAGAAACAGACAGATGCCCAATCTGCATCAAGTCCCAAGAAGTTCCCATCCCTGGC
 CACTCGGGGGACCTAGGAGATGGTGAAGGAGACCCCTCCCAATACAGAAACCTGGCAAGCTCTCCGATG
 CGTACCCTCCACGGTCCCAGCGTGGACAGTGTGTGGACTCCTGGGATGGGTCTGGAATAGATGCCAG
 CTATGGGAGTCAAGGCTCAACTTTTCAGACTTCAGGATAACAATTACAACACCTATGATTGGAGGAGTCCA
 AAGCAAAGAACCAGCCTGTCCCAAGTCCCAAGCCTCGAAGCCAGACGTACCCAGATGTGGCCTGAGTA
 ATGAAGACTGGGATCGATCCACAGCCAGTGGCTTTGTAGGGGCTTCTGACAGTGCAGATGCTGAACAAGA
 GGAAAACCTTCTGGTCTCAAGCATTGGAGGACCTGGAGACCTGCGGCCAGTCCGGGGATCCTGAGAGAGCTT
 GAGGCAACAATCATGTCCGGGAGTACTATGAGTTTGAATCATGAGGCTCCAATGGCTCGCAGTCACTGG
 GGCGACAGGCCAGCTTCCAGGAACGGAGCAGTTACGGCCACACTATAGCCAAACAACCTCGCAGCAACAC
 CCTGCCCTCAGACGTGGGCAGAAAGTCTGTAACCTGCGGAAAATGAAGCAAGAAATAAAGGAGATCATG
 TCCCAACTCCGGTGGAGCTACACAAGGTGACCTTATACAAGGACTCTGGCATGGAGGACTTCGGGTTCA
 GTGTGGCAGATGGCCTGCTGGAGAAAGGCGTGTATGTCAAAAATATCCGCCAGCTGGCCAGGTGATGT
 TGGGGCTTGAAGCCCTACGACAGGCTTTACAGGTAATCACGTGCGGACGAGAGACTTTGACTGCTGC
 CTGGTGGTGCCTCTCATAGCTGAATCTGGCAACAAGCTGGACCTGGTTATTAGCAGAAATCCACTGGCCT
 CCCAGAAGTCGATAGAACAGCCGCTCTGCCAGCGACTGGAGCGAACAGAACAGCGCTTTCTTCCAGCA
 ACCCAGCCACGGGATTCTGGAGATACTGTATACTTTTGGCAAAGCCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001277293
- Insert Size:** 3342 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_001277293.1](#), [NP_001264222.1](#)

RefSeq Size: 3959 bp

RefSeq ORF: 3342 bp

Locus ID: 74053

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 (5) contains multiple differences at both the 5' and 3' ends, compared to variant 1. These differences include initiation of translation at an alternate start codon and use of an alternate 3' exon structure. The encoded isoform (5) is shorter and has distinct N- and C- termini, compared to isoform 1.