

Product datasheet for **MG211652**

Grip1 (BC072632) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grip1 (BC072632) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grip1
Synonyms:	4931400F03Rik; eb; GRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211652 representing BC072632 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGCTGGAAGAAGAACATCCCCATCTGCTTACAAGCGGAGGAGCAGGAGAGAGATGAGAGTCCCT
ACACTAAATCTGCCAGCCAGACAAAGCCGCCGATGGAGCATTGGCTGTGAGGAGACAGAGCATCCCAGA
GGAATTC AAGGGCTCCACAGTGGTGGAGTTGATGAAGAAGGAGGGAACCACTCTTGGCCTGACGGTATCG
GGAGGCATTGATAAAGATGGCAAGCCAAGAGTGTCCAACCTGCGGCAGGGAGGAATCGCTGCCAGAAGTG
ACCAGCTGGATGTGGCGACTACATCAAGCGGTGAATGGATCAACCTGGCCAAGTTCGCCACGATGA
GATCATCAGCCTGCTGAAAAATGTCGGGAAAGAGTGGTCTGGAGGTCGAGTACGAGCTCCACCGGTC
TCTGTACAAGGATCCAGTGTTATGTTCCGAAGTGTGGAGGTCACGCTGCACAAAGAAGGCAACACCTTTG
GTTTTGTCATCCGAGGGGAGCGCATGATGACAGGAACAAGTCCCGTCCGGTTGTGATAACCTGTGTTTCG
TCCTGGAGGGCTGCTGACAGAGAGGGCACCATCAAACCTGGAGACAGGTTGCTCAGCGTGGATGGAATT
CGGCTCCTGGGAACCCATGCCGAGGCCATGAGCATCCTTAAACAGTGCAGCAAGAAGCCACGCTGC
TGATAGAATACGATGTCTGTGATGGATTCTGTGGCGACAGCATCCGGGCCACTACTAGTTGAAGTTGC
CAAACTCCAGGTGCCAGCCTTGGGTTGCCCTAACTACCTCCGTGTGCTGTAACAAGCAGGTCATTGTC
ATAGACAAAATCAAATCTGCAAGCATTGGGACAGATGTGGCGCCTACACGTGGGAGACCACATCCTCT
CCATTGACGGCACGAGTATGGAGTACTGTACCCTCGCAGAAGCGACCCAGTTCTGGCCAATACCACTGA
CCAGGTCAAGCTGGAGATTCTCCACACCATCAGACCCGCTGGCCCTAAAGGGCCCTGACCATGTGAAA
ATTCAGAGGAGCGACAGACAACATCCCTGGGATGCCTGGGCCAGCAACCAGTGCAGGCTTCATACCAACC
ATCACCATAACACGTACCACCCAGACCATTGCAGAGTGCAGCCCTGACTTTCGCCAAAGCGCTTCTCC
AAACAGCCCTCCGGCTATGGTGCCTCATCTTCTCCTACCTCCATGAGTGCGTACAGTCTGAGTTCCTG
AACATGGGACTTACCTCGAAGCCTCTACTCCACCAGCCACGAGGAACCATGATGAGGAGGAGACTGA
AAAAGAAAGACTTCAAAGCTCACTGTCTTTCAGCTCCAGCACTGTGGGTTGGCTGCCAGGTCGTTCA
CACTGAAACCACAGAGTTGTGCTGACGGCTGACCTGTACGGGCTTCGGAATCCAACCTGCAGGGCAGC



[View online >](#)

GTGTTTGCCACAGAGACGCTCTCCTCTCCGCTCTGATTTCTATATTGAAGCTGACAGCCCAGCAGAGA
 GATGTGGTGTGCTACAGATTGGAGACAGAGTCATGGCCATTAATGGAATCCCAACAGAAGACAGCACCTT
 CGAGGAAGCCAATCAACTCCTGAGAGACTCTTCCATCACGAGCAAAGTCACTAGAAAATCGAGTTTGTAT
 GTTGACAGAGTCTGTCATCCCAAGTAGTGGAAACATTTTATGTA AAAACTGCCAAGAAGCACAGCGTGGAA
 TTGGAATAACCATCAGTTCGCCATCCAGTAGAAAACCGGGGACCCCTTGTCAATTCAGATATCAAGAA
 AGGCAGTGTGGCACACAGAACCAGAACTCTGAACTGGGAGACAACTGCTTGGCATAGATAACATCCGG
 CTGGATAACTGTTCCATGGAAGATGCGGTCCAGATCCTCCAGCAGTGTGAAGACATCCGTAAGCTCAAAA
 TCCGCAAAGATGAAGATAACTCAGACGAGCAAGAGAGTTCCGGAGCGATTATTTACACGGTGGAGCTGAA
 GCGCTATGGGGGCCCCCTTGGCATCACAATTTCTGAACTGAAGAGCCGTTTGTATCTATTATCATCTCG
 AGCCTCACTAAAGGGGATTAGCTGAAAGGACTGGAGCGATCCACATCGGAGATAGAATCCTAGCCATCA
 ATAGCAGCAGCTTGAAGGGGAAGCCTCTGAGTGAAGCCATCCACTTGTCCAGATGGCAGGAGAGACTGT
 CACCCTGAAAATTAAGAAACAGACAGATGCCAATCTGCATCAAGTCCCAAGAAGTTCCCATCCCTGGC
 CACTCGGGGACCTAGGAGATGGTGAAGGAGACCCCTCCCAATACAGAAACCTGGCAAGCTCTCCGATG
 CGTACCCTCCACGGTGGCAGCGTGGACAGTGTGTGGACTCCTGGGATGGGTCTGGAATAGATGCCAG
 CTATGGGAGTCAAGGCTCAACTTTTCTGACTTCCAGATACAATTACAACACCTATGATTGGAGGAGTCCA
 AAGCAAAGAACCAGCCTGTCCCAAGTCCCAAGCCTCGAAGCCAGACGTACCCAGATGTGGGCTGAGTA
 ATGAAGACTGGGATCGATCCACAGCCAGTGGCTTTGTAGGGGCTTCTGACAGTGCAGATGCTGAACAAGA
 GGAAAACCTTCTGGTCTCAAGCATTGGAGGACCTGGAGACCTGCGGCCAGTCCGGGATCCTGAGAGAGCTT
 GAGGCAACAATCATGTCGGGGAGTACTATGAGTTTGAATCATGAGGCTCCAATGGCTCGCAGTCACTGG
 GGCACAGGCCAGCTTCCAGGAACGGAGCAGTTACCGCCACACTATAGCCAAACAACCTCGCAGCAACAC
 CCTGCCCTCAGACGTGGGAGAAAGTCTGTAACCTGCGGAAAATGAAGCAAGAAATAAAGGAGATCATG
 TCCCAACTCCGGTGGAGCTACACAAGGTGACCTTATAACAAGACTCTGGCATGGAGGACTTCGGGTTCA
 GTGTGGCAGATGGCCTGCTGGAGAAAGCGGTGTATGTCAAAAATATCCGCCAGCTGGGCCAGGTGATG
 TGGGGCTTGAAGCCCTACGACAGGCTCTTACAGGTAATACAGTGCAGGACGAGAGACTTTGACTGCTGC
 CTGGTGTGCCTCTCATAGCTGAATCTGGCAACAAGCTGGACCTGGTTATTAGCAGAAATCCACTGGCCT
 CCCAGAAGTCGATAGAACAGCCGGCTCTGCCAGCGACTGGAGCGAACAGAACAGCGCTTTCTCCAGCA
 ACCCAGCCACGGGATTCTGGAGATACTGTATACTTTTGGCAAAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211652 representing BC072632
 Red=Cloning site Green=Tags(s)

MPGWKKNIPICLQAEERDESPYTKSASQTKPPDGALAVRRQSIPEEFKGSTVVELMKKEGTTLGLTVS
 GGIDKDGKPRVSNLRQGGIAARSDQLDVGDIKAVNGINLAKFRHDEIISLLKNVGERVVLEVEYELPPV
 SVQSSVMFRTVEVTLHKEGNTFGFVIRGGAHDDRNRKSRPVVITCVRPGGPADREGTIKPGDRLLSVDGI
 RLLGTTHAEAMSILKQCGQEATLLIEYDVSVMDSVATASGPLLVEVAKTPGASLGVALLTSVCCNKQVIV
 IDKIKSASIAADRCGALHVGDHILSIDGTSMEYCTLAETQFLANTTDQVKLEILPHHQTRLALKGPDHVK
 IQRSDRQHPWDWASNQCGVHTNHHNTYHPDHCRVPALTFPKALPPNSPPAMVPSSTMSAYSLSL
 NMGTLPRLYSTSPRGTMRRRLKDKFSSLSLASSTVGLAGQVVHTEVVL TADPVTGFGIQLQGS
 VFATETLSSPPLISYIEADSPAERCGLVQIGDRVMAINGIPTEDSTFEANQLLRDSSITSKVTLEIEFD
 VAESVIPSSGFHVKLPKKHSVELGITISSPSSRKP GDPLVISDIKKGVAHRTGTLELGDKLLAIDNIR
 LDNCSMEDAVQILQQCEDLVKLIKRDENSDQEESGAIITYVELKRYGGPLGITISGTEEPFDPIIS
 SLTKGGLAERTGAIHIGDRILAINSSSLK GKPLSEAIHLLQ MAGETVTLIKKQTDASASSPKKFP
 HSGDLGDGEEDPSPIQKPGKLSA YPSTVPSVDSAVDSWDGSGIDASYGSQGSTFQTS GYNYNTYDWRSP
 KQRTSLSPVPKPRSQTYPDVGLSNEDWRSTASGFV GASDSADAEQENFWQALEDLET CGQSILREL
 EATIMSGSTMSLNHEAPMARSQGRQASQFQERSRPHYSQTTRSNLTPSDVGRKSVTLRKMKEIKEIM
 SPTPVELHKVTLKYDSGMEDFGFSVADGLLEKGVYVKNIRPAGPGDVGGLKPYDRLLQVNHVTRDFDC
 LVVPLIAESGNKLDLVISRNPLASQKSIEQPALPSDWSEQNSAFFQQPSHGIPGDTVYFWQSL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC072632

ORF Size: 3341 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [BC072632](#), [AAH72632](#)

RefSeq Size: 4064 bp

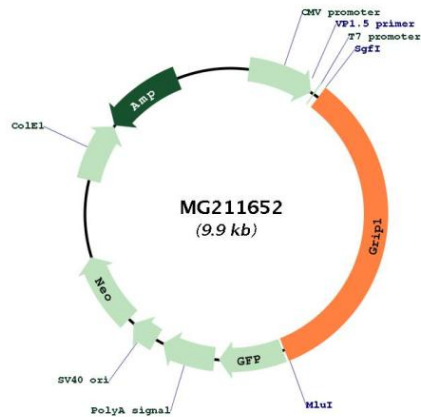
RefSeq ORF: 3341 bp

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]

Product images:

Circular map for MG211652