

## Product datasheet for **MG222877**

### Grip1 (NM\_133442) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Grip1 (NM\_133442) 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:** >MG222877 representing NM\_133442  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGGCTGGAAGAAGAACATCCCCATCTGCTTACAAGCGGAGGAGCAGGAGAGAGAGGAATTCAAGG  
 GCTCCACAGTGGTGGAGTTGATGAAGAAGGAGGGAACCACTCTTGGCCTGACGGTATCGGGAGGCATTGA  
 TAAAGTGGCAAGCCAAGAGTGTCCAACCTGCGGCAGGGAGGAATCGCTGCCAGAAGTGACCAGCTGGAT  
 GTGGGCGACTACATCAAGGCGGTGAATGGGATCAACCTGGCCAAGTTCGCCACGATGAGATCATCAGCC  
 TGCTGAAAAATGTCGGGAAAGAGTGGTCTGGAGGTCGAGTACGAGCTCCACCGTCTCTGTACAAGG  
 ATCCAGTGTATGTTCCGAACCTGTGGAGGTCACGCTGCACAAAGAAGGCAACACCTTTGGTTTTGTATC  
 CGAGGGGAGCGCATGATGACAGGAACAAGTCCCGTCCGGTTGTGATAACCTGTGTTCTGCTGGAGGGC  
 CTGCTGACAGAGAGGGCACCATCAAACCTGGAGACAGGTTGCTCAGCGTGGATGGAATTCGGCTCCTGGG  
 AACCACCCATGCCGAGGCCATGAGCATCCTTAAACAGTGGGACAAGAAGCCACGCTGCTGATAGAATAC  
 GATGTCTCTGTGATGGATTCTGTGGCGACAGCATCCGGGCCACTACTAGTTGAAGTTGCCAAAATCCAG  
 GTGCCAGCCTTGGGGTTGCCCTAACTACCTCCGTGTGCTGTAACAAGCAGGTCATTGTATAGACAAAAT  
 CAAATCTGCAAGCATTGGGACAGATGTGGCGCCTACACGTGGGAGACCACATCCTCTCCATTGACGGC  
 ACGAGATGGAGTACTGTACCCTCGCAGAAGCGACCCAGTTCCTGGCCAATACCAGTACCAGGTCAGC  
 TGGAGATTCTCCACACCATCAGACCCGCTGGCCCTAAAGGGCCCTGACCATGCGGCTATGGTGCCTC  
 ATCTTCTCCTACCTCCATGAGTGCGTACAGTCTGAGTTCCTGAACATGGGGACTTTACCTCGAAGCCTC  
 TACTCCACCAGCCACGAGGAACCATGATGAGGAGGAGACTGAAAAAGAAAGACTTCAAAGCTCACTGT  
 CTTTAGCCTCCAGCACTGTGGGTTGGCTGGCCAGGTCGTTACACTGAAACCACAGAGGTTGTGCTGAC  
 GGCTGACCCTGTACGGGCTTCGGAATCCAACCTGCAGGGCAGCGTGTGGCCACAGAGACGCTCCTCT  
 CCGCCTGATTTCTATATTGAAGCTGACAGCCAGCAGAGAGATGTGGTGTGCTACAGATTGGAGACA  
 GAGTCATGGCCATTAATGGAATCCCAACAGAAGACAGCACCTTCGAGGAAGCCAATCAACTCCTGAGAGA  
 CTCTCCATCAGAGCAAAGTCACACTAGAAATCGAGTTTGATGTTGCAGAGTCTGTCATCCAAGTAGT



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GGAACATTTTCATGTAAAACCTGCCAAGAAGCACAGCGTGAACCTGGAATAACCATCAGTTCGCCATCCA  
 GTAGAAAACCGGGGACCCCTTGTCATTTTCAGATATCAAGAAAGGCAGTGTGGCACACAGAACCGGAAC  
 TCTGGAACGGGAGACAACTGCTTGCATAGATAACATCCGGCTGGATAACTGTTCCATGGAAGATGCG  
 GTCCAGATCCTCCAGCAGTGTGAAGACCTGGTGAAGCTCAAAATCCGCAAAGATGAAGATAACTCAGACG  
 AGCAAGAGAGTTCGGGAGCGATTATTTACACGGTGGAGCTGAAGCGCTATGGGGGGCCCTTGGCATCAC  
 AATTTCTGGAACCTGAAGAGCCGTTTGTATCTATTATCATCTCGAGCCTCACTAAAGGGGATTAGCTGAA  
 AGGACTGGAGCGATCCACATCGGAGATAGAATCCTAGCCATCAATAGCAGCAGCTTGAAGGGGAAGCCTC  
 TGAGTGAAGCCATCCACTTGCTCCAGATGGCAGGAGAGACTGTCACCCTGAAAATTAAGAAACAGACAGA  
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 GAGGACCCTCCCAATACAGAAACCTGGCAAGCTCTCCGATGCGTACCCTCCACGGTGGCCAGCGTGG  
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 GACTTCAGGATACAATTACAACACCTATGATTGGAGGAGTCCAAAGCAAAGAACCAGCCTGTCCCCAGTC  
 CCCAAGCCTCGAAGCCAGACGTACCAGATGTGGGCTGAGTAATGAAGACTGGGATCGATCCACAGCCA  
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 GCAGTTCACGGCCACACTATAGCCAAACAACCTCGCAGCAACACCCTGCCCTCAGAGCTGGGCAGAAAAGT  
 TGTAACCTGCGGAAAATGAAGCAAGAAAATAAAGGAGATCATGTCCCAACTCCGGTGGAGCTACACAAG  
 GTGACCTTATACAAGGACTCTGGCATGGAGGACTTCGGGTTCACTGTGGCAGATGGCCTGCTGGAGAAA  
 GCGTGTATGTCAAAAATATCCGCCAGCTGGGCCAGGTGATGTTGGGGCTTGAAGCCCTACGACAGGCT  
 CTTACAGGTAATCACGTGGGACGAGAGACTTTGACTGCTGCCTGGTGGTGCCTCTCATAGCTGAATCT  
 GGCAACAAGCTGGACCTGGTTATTAGCAGAAATCCACTGGCCTCCAGAAGTCGATAGAACAGCCGGCTC  
 TGCCCAGCGACTGGAGCGAACAGAACAGCGCTTTCTTCCAGCAACCCAGCCACGGTGGTAATCTAGAGAC  
 ACGAGAACCCACTAACACACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222877 representing NM\_133442  
 Red=Cloning site Green=Tags(s)

MPGWKKNIPICLQAEQEREFEKSTVVELMKKEGTTLGLTVSGGIDKDGKPRVSNLRQGGIAARSDQLD  
 VGDYIKAVNGINLAKFRHDEIISLLKNVGERVVLEVEYELPPVSVQSSVMFRTVEVTLHKEGNTFGFVI  
 RGGAHDDRNRKSRPVVITCVRPGGPADREGTIKPGDRLLSVDGIRLLGTTTHAEAMSILKQCGQEATLLIEY  
 DVSVMDSVATASGPLLVEVAKTPGASLGVALLTSVCCNKQVIVIDKIKSASIAADRCGALHVGDHILSIDG  
 TSMEYCTLAEATQFLANTDQVKLEILPHHQTRLALKGPDHAAMVSSSPTSMSAYSLSLNMGTLPRL  
 YSTSPRGTMRRRLKKKDFKSSLASSTVGLAGQVVHTETTEVVLADPVTGFGIQLQGSVFATETLSS  
 PPLISYIEADSPAERCGVLQIGDRVMAINGIPTEDSTFEEANQLLRDSSITSKVTLEIEFDVAESVIPSS  
 GTFHVKLPKKHVELGITISSPSSRKP GDPLVISDIKKGVAHRTGTLELGDKLLAIDNIRLDNCSMEDA  
 VQILQQCEDLVKLIKIRKEDNSDEQESSGAIITYVELKRYGGPLGITISGTEEPFDPPIISSLTKGLAE  
 RTGAIHIGDRILAINSSSLK GKPLSEAIHLLQMAGETVTLKIKKQTDASASSPKKFPPIGHSGLDGDGE  
 EDPSPAIQKPGKLSDAYPSTVPSVDSAVDSDWGSIDASYGSQGSTFQTSYNYNTYDWRSPKQRTSLSPV  
 PKPRSQTYPDVGLSNEDWDRSTASGFV GASDSADAEQEENFWSQALEDLETCGQSGILRELEATIMSGST  
 MSLNHEAPMARSQLRQASFQERSRPHYSQTTTRSNTLPSDVGRKSVTLRKMKEIKEIMSPTPVELHK  
 VTLYKDSGMEDFGFSVADGLLEKGVYVKNIRPAGPGDVGLKPYDRLLQVNHVTRDRDFDCLLVPLIAES  
 GNKLDLVISRNPLASQKSIEQPALPSDWSEQNSAFFQPSHGGNLETREPTNTL

TRTRPLE - GFP Tag - V

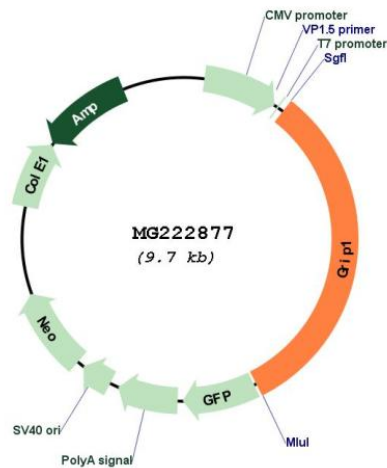
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_133442

ORF Size: 3102 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_133442.2</a> , <a href="#">NP_597699.1</a>
<b>RefSeq Size:</b>	3241 bp
<b>RefSeq ORF:</b>	3105 bp
<b>Locus ID:</b>	74053
<b>UniProt ID:</b>	<a href="#">Q925T6</a>
<b>Cytogenetics:</b>	10 67.33 cM
<b>Gene Summary:</b>	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]