

## Product datasheet for MR231537

### Grip1 (NM\_001277292) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Grip1 (NM\_001277292) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Grip1  
**Synonyms:** 4931400F03Rik; eb; GRIP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR231537 representing NM\_001277292  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGCC

ATGCCGGCTGGAAGAAGAACATCCCCATCTGCTTACAAGCGGAGGAGCAGGAGAGAGATGAGAGTCCCT  
 AACTAAATCTGCCAGCCAGACAAAGCCGCCGATGGAGCATTGGCTGTGAGGAGACAGAGCATCCCAGA  
 GGAATTAAGGGCTCCACAGTGGTGGATTGATGAAGAAGGAGGGAACCACTCTTGGCCTGACGGTATCG  
 GGAGGCATTGATAAAGATGGCAAGCCAAGAGTGTCCAACCTGCGGCAGGGAGGAATCGCTGCCAGAAGT  
 ACCAGCTGGATGTGGGCGACTACATCAAGGCGGTGAATGGGATCAACCTGGCCAAGTTCGCCACAGTGA  
 GATCATCAGCCTGCTGAAAAATGTGGGGAAAGAGTGGTCTGGAGGTCGAGTACGAGCTTCCACCGGTC  
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 GTTTTGTATCCGAGGGGAGCGCATGATGACAGGAACAAGTCCCGTCCGGTTGTGATAACCTGTGTTCC  
 TCCTGGAGGGCCTGCTGACAGAGAGGGCACCATCAAACCTGGAGACAGGTTGCTCAGCGTGGATGGAAT  
 CGGCTCCTGGGAACCACCCATGCCGAGGCCATGAGCATCCTTAAACAGTGGGACAAGAAGCCACGCTGC  
 TGATAGAATACGATGCTCTGTGATGGATTCTGTGGCGACAGCATCCGGGCCACTACTAGTTGAAGTTGC  
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 AAGCTCACTGTCTTAGCCTCCAGCACTGTGGGTTGGCTGGCCAGGTCGTTCACTGAAACCACAGAG  
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 CTCTGAGAGACTCTCCATCAGAGCAAAGTCACTAGAAATCGAGTTTGTGTTGCAGAGTCTGTCA



TCCAAGTAGTGAACATTTTCATGTAAAACGCCCCAAGAAGCACAGCGTGAACCTTGAATAACCATCAG  
 TTCGCCATCCAGTAGAAAACCGGGGACCCCTTGTCAATTCAGATATCAAGAAAGGCAGTGTGGCACAC  
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 GCTGGAGAAAGGCGTGTATGTCAAAAATATCCGCCAGCTGGGCCAGGTGATGTTGGGGGCTTGAAGCCC  
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 AATCTAGAGACACGAGAACCCTAACAACACTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR231537 representing NM\_001277292

Red=Cloning site Green=Tags(s)

MPGWKKNIPICLQAEERDESPYTKSASQTKPPDGALAVRRQSIPEEFKGSTVVELMKKEGTTLGLTVS  
 GGIDKDKGPRVSNLRQGGIAARSDQLDVGDIKAVNGINLAKFRHDEIISLLKNVGERVVLEVEYELPPV  
 SVQSSVMFRTVEVTLHKEGNTFGFVIRGGAHDDRNRKSRPVVITCVRPGGPADREGTIKPGDRLLSVDGI  
 RLLGTTTHAEAMSLKQCGQEATLLIEYDVSVMDSVATASGPLLVEVAKTPGASLGVALLTSSVCCNKQVIV  
 IDKIKSASIAADRCGALHVGDHILSIDGTSMEYCTLAEQFLANTTDQVKLEILPHHQTRLALKGPDHAA  
 MVPSSSPTSMSAYSLSSLNMGTLPRSLYSTSPRGTMRRRLKKKDFKSSLASSTVGLAGQVVHTETTE  
 VVL TADPVTGFGIQLQGSVFATETLSSPPLISYIEADSPAERCGVLQIGDRVMAINGIPTEDSTFEEANQ  
 LLRDSSITSKVTLIEFDVAESVIPSSGTFHVKLPKKHSVELGITISSPSSRKPGDPLVISDIKKGVAH  
 RTGTLELGDKLLAIDNIRLDNCSMEDAVQILQQCEDLVKLRKDEDNSDEQESSGAIITYVELKRYGGP  
 LGITISGTEEPFDPIIISLTKGGLAERTGAIHIGDRILAINSSSLKKGKPLSEAIHLLQMAGETVTLKIK  
 KQTDASASSPKFPIPGHSGDLGDGEEDPSPIQKPGKLSDAYPSTVPSVDSAVDSWDGSGIDASYGSQG  
 STFQTSYNYNTYDWRSPKQRTSLSPVPKPRSQTYPDVLGNEDWDRSTASGFV GASDSADAEQEENFWS  
 QALEDLETGCGSILRELEATIMSGSTMSLNHEAPMARSQGRQASQFQERSRPHYSQTTTRSNTLPSDV  
 GRKSVTLRKMKEIKEIMSPTPVELHKVTLYKDSGMEDFGFSVADGLLEKGVYVKNIRPAGPGDVGGLKP  
 YDRLLQVNHVTRDFDCCLVPLIAESGNKLDLVISRNPLASQKSIEQPALPSDWSEQNSAFFQQPSHGG  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

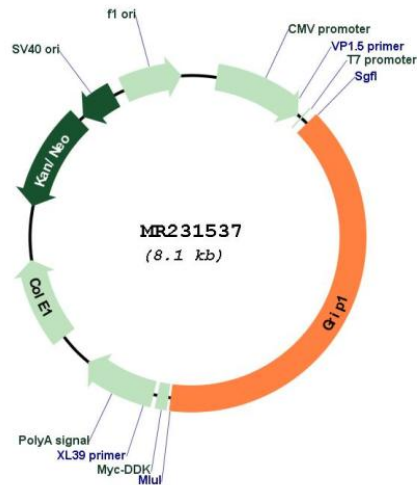
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001277292

ORF Size: 3183 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.

<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>	<u>NM_001277292.1, NP_001264221.1</u>
<b>RefSeq Size:</b>	5161 bp
<b>RefSeq ORF:</b>	3186 bp
<b>Locus ID:</b>	74053
<b>UniProt ID:</b>	<u>Q925T6</u>
<b>Cytogenetics:</b>	10 67.33 cM
<b>MW:</b>	114.8 kDa
<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]