

## Product datasheet for **MR230744**

### Grip1 (NM\_001277295) Mouse Tagged ORF Clone

#### Product data:

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                         |
| Product Name:      | Grip1 (NM_001277295) 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                                    |



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ORF Nucleotide  
Sequence:

>MR230744 representing NM\_001277295  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGACAGCAAACGAGCTGAAAGGAAGGAGATGAAGAGACCCAATAGTTTTCACCTTCCTTTTCGTCCAT  
CTTTAAGAAAAGGACAGAAAGAAAACGCAGCTCATGTGTCTTTAGCCTCCAGCACTGTGGGGTTGGCTGG  
CCAGGTCGTTCACTGAAACCACAGAGTTGTGCTGACGGCTGACCCTGTCACGGGCTTCGGAATCCAA  
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GCCCAGCAGAGAGATGTGGTGTGCTACAGATTGGAGACAGAGTCATGGCCATTAATGGAATCCCAACAGA  
AGACAGCACCTTCGAGGAAGCCAATCAACTCTGAGAGACTCTCCATCACGAGCAAAGTCACACTAGAA  
ATCGAGTTTGATGTTGCAGAGTCTGTCATCCCAAGTAGTGAACATTTTCATGAAAACCTGCCAAGAAGC  
ACAGCGTGGAACTTGAATAACCATCAGTTCGCCATCCAGTAGAAAACCGGGGACCCCTTGTCAATTC  
AGATATCAAGAAAGGCAGTGTGGCACACAGAACCAGCACTCTGGAAGTGGGAGACAACTGCTTGCAGATA  
GATAACATCCGGCTGGATAACTGTTCCATGGAAGATGCGGTCCAGATCCTCCAGCAGTGTGAAGACCTGG  
TGAAGCTCAAAATCCGCAAGATGAAGATAACTCAGACGAGCAAGAGAGTTCCGGAGCGATTATTTACAC  
GGTGGAGCTGAAGCGCTATGGGGGGCCCTTGGCATCACAAATTTCTGGAAGTGAAGAGCCGTTTGTATCCT  
ATTATCATCTCGAGCCTCACTAAAGGGGATTAGCTGAAAGGACTGGAGCGATCCACATCGGAGATAGAA  
TCCTAGCCATCAATAGCAGCAGCTTGAAGGGGAAGCCTCTGAGTGAAGCCATCCACTTGTCCAGATGGC  
AGGAGAGACTGTCACCCTGAAAATTAAGAAACAGACAGATGGCTCAACTTTTCAGACTTCAGGATACAAT  
TACAACACCTATGATTGGAGGAGTCAAAGCAAAGAACCAGCCTGTCCCCAGTCCCAAGCCTCGAAGCC  
AGACGTACCCAGATGTGGGCCTGAGTAATGAAGACTGGGATCGATCCACAGCCAGTGGCTTGTAGGGGC  
TTCTGACAGTGCAGATGCTGAACAAGAGGAAAACCTCTGGTCTCAAGCATTGGAGGACCTGGAGACCTGC  
GGCCAGTCGGGGATCCTGAGAGAGCTTGAGGCAACAATCATGTGCGGGAGTACTATGAGTTTGAATCATG  
AGGCTCCAATGGCTCGCAGTCAGCTGGGGGACAGGCCAGCTTCCAGGAACGGAGCAGTTCACGGCCACA  
CTATAGCCAAACAACCTCGCAGCAACACCCTGCCCTCAGACGTGGGCAGAAAAGTCTGTAACCCTGCGGAAA  
ATGAAGCAAGAAATAAAGGAGATCATGTCCCAACTCCGGTGGAGCTACACAAGGTGACCTTATACAAGG  
ACTCTGGCATGGAGGACTTCGGTTCAGTGTGGCAGATGGCCTGCTGGAGAAAGCGTGTATGTCAAAAA  
TATCCGCCAGCTGGCCAGGTGATGTTGGGGCTTGAAGCCCTACGACAGGCTCTTACAGGTAATCAC  
GTGCGGACGAGAGACTTTGACTGCTGCCTGGTGGTGCCTCTCATAGCTGAATCTGCAACAAGCTGGACC  
TGGTTATTAGCAGAAATCCACTGGCCTCCAGAAAGTCGATAGAACAGCCGGCTCTGCCACGCGACTGGAG  
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ACACTA

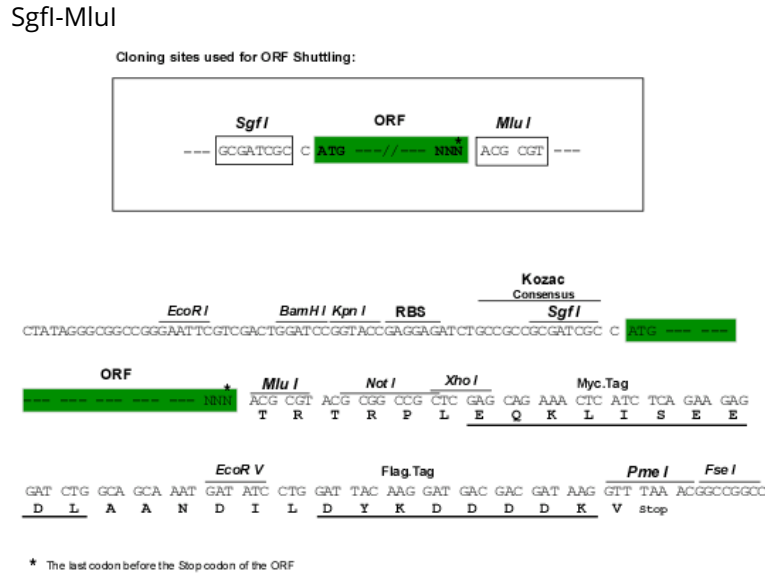
**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

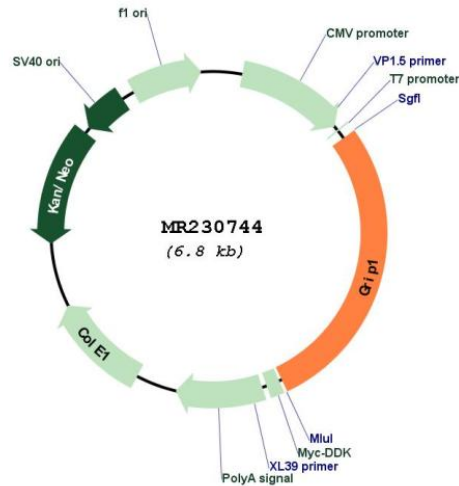
**Protein Sequence:** >MR230744 representing NM\_001277295  
 Red=Cloning site Green=Tags(s)

MTAKRAERKEMKRPNSFHLPPRPSLRKGGQKNAAHVSLASSTVGLAGQVVHTETTEVVL TADPVTGFGIQ  
 LQGSVFATETLSSPPLISYIEADSPAERCGVLQIGDRVMAINGIPTEDSTFEEANQLLRDSSITSKVTLE  
 IEFDVAESVIPSSGTFHVKLPKKHSVELGITISSPSSRKPGDPLVISDIKKGVAHRTGTLELGDKLLAI  
 DNIRLDNCSMEDAVQILQQCEDLVKLRKDEEDNSDEQESSGAI IYTVELKRYGGPLGITISGTEEPFDP  
 I I ISSLTKGGLAERTGAIHIGDRILAINSSSLKKGKPLSEAIHLLQ MAGETVTLKIKKQTDGSTFQTSGYN  
 YNTYDWRSPKQRTSLSPVPKPRSQTPDVGLSNEDWDRSTASGFVGASDSADAEQEENFWSQALEDLETC  
 GQSGILRELEATIMSGSTMSLNHEAPMARSQ LGRQASFQERSSSRPHYSQTTRSNTLPSDVGRKSVTLRK  
 MKQEIKEIMSPTVELHKVTL YKDSGMEDFGFSVADGLLEKGVYVKNIRPAGPGDVGGLKPYDRLLQVNH  
 VRTRDFDCCLVVPLIAESGNKLDLVISRNPLASQKSIEQPALPSDWSEQNSAFFQQPSHGGNLETREPTN  
 TL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**  
**Cloning Scheme:**



**Plasmid Map:**


|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_001277295  |
| <b>ORF Size:</b>              | 1896 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <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_001277295.1</a> , <a href="#">NP_001264224.1</a>   |

RefSeq Size: 3758 bp

RefSeq ORF: 1899 bp

Locus ID: 74053

UniProt ID: [Q925T6](#)

Cytogenetics: 10 67.33 cM

MW: 69.4 kDa

**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]