

Product datasheet for MR222877

Grip1 (NM_133442) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grip1 (NM_133442) 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:	>MR222877 representing NM_133442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGCTGGAAGAAGAACATCCCCATCTGCTTACAAGCGGAGGAGCAGGAGAGAGAGGAATTCAAGG
GCTCCACAGTGGTGGAGTTGATGAAGAAGGAGGAACCACTCTTGGCCTGACGGTATCGGGAGGCATTGA
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CTGCTGACAGAGAGGGCACCATCAAACCTGGAGACAGGTTGCTCAGCGTGGATGGAATTCGGCTCCTGGG
AACCACCCATGCCGAGGCCATGAGCATCCTTAAACAGTGGGACAAGAAGCCACGCTGCTGATAGAATAC
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TGCCACGAGCTGGAGCGAACAGACAGCGCTTCTTCCAGCAACCCAGCCACGGTGGTAATCTAGAGAC
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ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222877 representing NM_133442
Red=Cloning site Green=Tags(s)

MPGWKKNIPICLQAEQEREFEKSTVVELMKKEGTTLGLTVSGGIDKDGKPRVSNLRQGGIAARSDQLD
VGDYIKAVNGINLAKFRHDEIISLLKNVGERVVLEVEYELPPVSVQSSVMFRTVEVTLHKEGNTFGFVI
RGGAHDDRNRKSRPVVITCVRPGPADREGTIKPGDRLLSVDGIRLLGTTTHAEAMSILKQCQGEATLLIEY
DVSVMDSVATASGPLLVEVAKTPGASLGVALTTSVCCNKQVIVIDKIKSASIAADRCGALHVGDHILSIDG
TSMEYCTLAEATQFLANTTDQVKLEILPHHQTRLALKGPDHAAMVSSSPTSMSAYSLSLNMGTLPRL
YSTSPRGTMRRRLKKKDFKSSLASSTVGLAGQVVHTETTEVVLADPVTGFGIQLQGSVFATETLSS
PPLISYIEADSPAERCGVLQIGDRVMAINGIPTEDSTFEANQLLRDSSITSKVLEIEFDVAESVIPSS
GTFHVKLPKKHVELGITISSPSSRKPGDPLVISDIKKGVAHRTGTLELGDKLLAIDNIRLDNCSMEDA
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EDPSPIQKPGKLSDAYPSTVPSVDSAVDSDWGSIDASYGSQGSTFQTSYNYNTYDWRSPKQRTSLSPV
PKPRSQTYPDVGLSNEDWDRSTASGFV GASDSADAEQEENFWSQALEDLETGCGSILRELEATIMSGST
MSLNHEAPMARSQLRQASQFQERSRPHYSQTTTRSNLPSDVGRKSVTLRKMKEIKEIMSPTPVELHK
VTLYKDSGMEDFGFSVADGLLEKGVYVKNIRPAGPGDVGLKPYDRLLQVNHVTRDRDFDCLLVPLIAES
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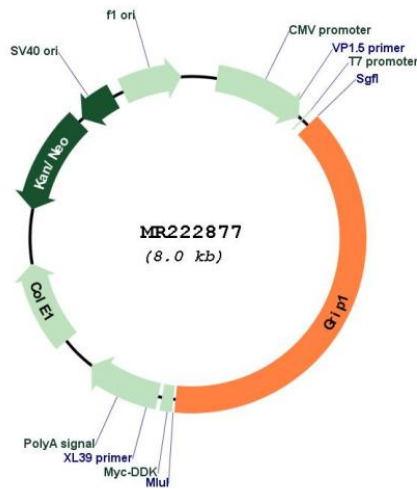
Restriction Sites:

Sgfl-MluI

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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_133442.2</u> , <u>NP_597699.1</u>
RefSeq Size:	3241 bp
RefSeq ORF:	3105 bp
Locus ID:	74053
UniProt ID:	<u>Q925T6</u>
Cytogenetics:	10 67.33 cM
MW:	111.9 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]