

Product datasheet for **MR211349**

Gmip (NM_198101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmip (NM_198101) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmip
Synonyms:	5031419I10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211349 representing NM_198101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTCAGCGGAGACAGAGCTAACCCAGCTCCTGAGGGCAGGAAGAGATACAGTGACATCTTCCAGA
 GCCTGGACAACCTCGAGATATCATTGGGGAACGTAACCTTTGATCCCCTGGCTGGAGACCCTGTACGCAG
 AGAAGACCTGGAGCCTGACAAAGCTGACACAGCCACAGTGGTGACTGAGGAGAACAGTGAAGCCAGTAGT
 TGGCGGGATCTCTCCCCAGAAGGTCTGCACCCCTCACAGAGGAAGAAGTGGATTTGCGACTCATTCCGGA
 CCAAGGGTGGTGTAGATGCTGCCCTGGAGTATGCTAAAGCATGGAGCCGCTATGCCAAGGAACTGCTGGC
 CTGGACAGACAAGAGAGCCAACACGAGCTCGAGTTTGTAAAGATATCATGAAGCTCGTGAGGCTGGC
 AAGGTGTCCATTCTCCAGCAGAGCCAAATGCCACTCCAGTACATCTACACCTGTTTCTGGAGCATGACC
 TCAGCCTGGGAGCCCTGGCCCTGGAGACAGTGGCCCAACAGAAGAGAGACTACTACCAGCCTCTGGCGGC
 CAAAAGGATGGAATGAGAAGTGGAGGAAGGAATTCAAGGAACAGTGGCTGAAGGAGCAGAAGCGCATG
 AATGAGGCAGTGCAGGCACTGCGGCGCTCCGAGCTCCAGTACATTCAACGCAGAGAGGACCTGAGGGCAC
 GCTCCCAGGGTCCCCTGAGGACCTCCTTCCCAGGCATCTCTGGATCCAACAAGCAACAGGAGCGCAG
 ACGGCGCTCCCGAGAGGAGGCACAGGCCAAGGCGCATGAGGCGGAGGCTCTGTACCAGGCCTGTGTCCGG
 GAGGCCAATTCTCGCCAGCAGGATCTGGAGACCACCAAGCGGCGGATAGTGTACATGTGCGCAAGCTGG
 TGCTGCAAGGAGACGAAGTGCTTAGCGGGTGACGCTGGGTCTGTTTGAGCTGCGAGGGGCGCAGGCAGA
 GCGAGGACCCCGCTCCTCTCTGCTCTGGCTGAGTGTGTGTGCCCTTTGAACCTGGCCAGCGCTACCAG
 GAGTTTGTTCGGACACTGCAGCCTGGGGCCCCACCGCCCATCTCCGGCCTTCTGCTTCCAGGAGTTCA
 CAGCTGTGGTGCACAGTTTCCCTCAGGACAAAAAAGAAGTTTTCGGGGCCTCTACCTCAAGGCTGGA
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 GATGTGGACAGTGTAGGTGGTGGCAGTGTGAGTCCCGGTCTTTGGATTCTCCCACTTCCAGCCAGGTGCTG
 GGGCCCGCGACTTGTAAGGCTTCGTCCACAGGCACGGAGTCCCTCCGATGACTTTGAGGAGCGAGACCC
 TGATCTGGGGGATGGGATAGAGAATGGAGTAGGCAGCCGTTTCAGGAAGTGGACTGTCCACAGCTGCT
 CAAACCCACCGACTGCGGCGGCTGCGGGGCCAGCCAAGTGCAGAGAATGTGAAGCCTTCATGGTCAGCG
 GGACAGAATGTGAAGAGTGTCTTTTACCTGTCAACAGCGCTGCCTGGAGACCCTCCTCATCTTTGTGG
 ACACCGGCGGCTTCCGGCCGGATGTCCCTCTTTGGGGTTGACTTCTACAGTCCCCAGAGATTTCCCT
 GAGGAGGTTCCCTTTGTGATTACAGATGCACAGCTGAGATAGAGCACCTGCCCTGGGCTTGCAGGGTA
 TCTATCGGGTACGCGGGTCTCGGGTACGTGTGGAGCGGCTGTGCCAGGCCTTTGAGAATGGCCGAGCACT
 GGTGAGCTGTCCGGAACTCTCCTCACGATATACCAGCGTTTCAAGCGATTTCTTCCAGGAGCTCACT
 GATCCCCTGGTCCCCTTCCACTTGTACGACGCCTTCATCTCTCTGGCAAAGACCCTGCATGCAGACCCTG
 GGGACGACCCTGGGACCCCAACCCAGCCCTGAGATTATTCGCTCGCTGAAGACCCTCTTGGTGCAGCT
 GCCTGACTCTAACTACAGTACCTGCGACACCTGGTGGCCATCTGTTTCAGGGTGGCTGCTCGGTTTGA
 GAAAACAAGATGTCTGCCAACAATCTGGGAATTGTATTTGGGCCTACACTGCTGCGGCCACCAGATGGAC
 CCAGGGCCACCGGTGCCAGCCCTGTGGCCTGTCTGCTGGACTCCGGTACCAGGCTCAGCTGGTTGAGTT
 CCTCATTGTGCACTATGAGCAGATCTTTGGAATGGATGAGTCCCTCTGGCCTCGGAGCCTCTGACCCAA
 GACCCTGGCTTGCTCCTGCATGCCTTGAATCCAGTCCCCAGCACCCAGCCTCACTTCTTGCCCAAGACA
 CACAGCCCTGACCATAGCCTTGGATTCCAGCCAGACCCCAAACACCACAGTGCCTTGGAGAAGTGCC
 CGAGGTACACCTCCTGAGCTTGAACCTCTGCAGAGGGACCAGAGGGAGGAGGAGGTGGAAGACACCAGA
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 TCAGCCGCCAGCCAGTGAAGTATCCCGGGGAGGTGTGAGGCCAGTTACTCATCAACTCTCCAGCCTGGC
 TCTGGTGGCCTCAAGCTGTGTGAGGAGACTCCTGTCACTGTCTCAGCAGTGCACCGAGGTAGTTTGGG
 GTACGAGGTTTGGGCCCTGCTGTGCTGCCCTGAAGGCAGCCCTGCGCCGGAACCCTCTGCCAAGC
 ACTTTGAGATCACCCAGGAGACAGCCGACTTCTCCAAGCTGAACAGTGTGTGTGTCAGGACCAC
 CTGTTGTGCTGACCCAGAGCCTGAGGAGTCTGAAGAGCACCTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211349 representing NM_198101
 Red=Cloning site Green=Tags(s)

MDSAETELTPAPEGRKRYSDIFQSLDNLEISLGNVTFDPLAGDPVRRREDLEPKADTATVVTEENSEASS
 WRDLSPEGPAPL TEEELDLRL IRTKGGVDAALEYAKAWSRYAKELLAWTDKRANYELEFAKSIMKLAEAG
 KVSILQQSQMPLQYIYTLFLEHDL SLGALALETVAQQKRDYYQPLAAKRMIEIKWRKEFKEQWLKEQKRM
 NEAVQALRRSELQYIQRREDLRARSQGSPEPPSQASPGSNKQQERRRRRSREEAQAKAHEAEALYQACVR
 EANSRQQDLETTKRRIVSHVRKLVLQGDEVLRVTLGLFELRGAQAERGRPRFSALAECCVPFEPGQRYQ
 EFVRTLQPGAPPPPSPAFCFQEFTAVVHSFPQDTKKKFSGPLPPRLEEESPEPGPWEVASLGSQGI PGS
 DVDSVGGGSESRLSDPTSSPGAGARRLVKASSTGTESSDDFEERDPLDGDIEINGVGSFPRKWTLSTAA
 QTHRLRRLRGPACRECEAFMVGTECEECFLTCHKRCLETLLILCGHRRLPARMSLFGVDFLQLPRDFP
 EEVPPFVITRCTAEIEHRALGLQGIYRVSGSRVVERLQCQAFENGRALVELSGNSPHDITSVLKRFLQELT
 DPVVPFHL YDAFISLAKTLHADPGDDPGTPNPSPEIIRSLKTLVQLPDSNYSTLRHLVAHLFRVAARFE
 ENKMSANNL GIVFGPTLLRPPDGPRATGASPVACLLDSGHQAQLVEFLIVHYEQIFGMDELPLASEPLTQ
 DPGLAPACLESSPQHPASLLAQDTQPLTIALDSSPDPKHHSAL EKCEVTPPELATLQRDQREEEVEDTR
 DGAGDGSSHCPEDLALGAQSRGHFSRQPVKYSRGGVPRVTHQLSSLALVASKLCEETPVTVSAVHRGSLR
 VRGLGPA AACPEGSP LRRNPLPKHFEITQETARLLSKLNSDAVSRTTCCADPEPEESEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

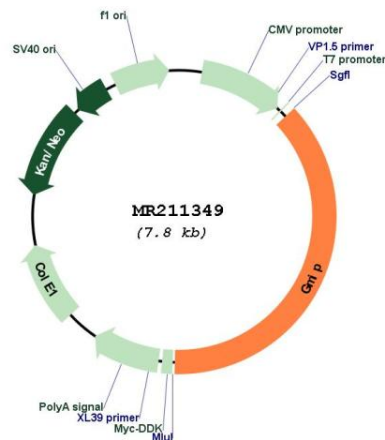
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_198101
 ORF Size: 2913 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_198101.1, NP_932769.1</u>
RefSeq Size:	3945 bp
RefSeq ORF:	2916 bp
Locus ID:	78816
UniProt ID:	<u>Q6PGG2</u>
Cytogenetics:	8 B3.3
MW:	108 kDa
Gene Summary:	Stimulates, in vitro and in vivo, the GTPase activity of RhoA.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR211349