**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC239810

## GMIP (NM_001288999) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | GMIP (NM_001288999) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | GMIP |
| **Synonyms:** | ARHGAP46 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |



View online »

**ORF Nucleotide Sequence:**

>RC239810 representing NM_001288999
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCAGCAGAGCCGGGACTCCCCCCAGGTCCTGAGGGCAGGAAGAGGTACAGTGACATCTTCCGGA
GCCTGGACAACCTCGAAATCTCACTGGGGAACGTGACCCTTGAGATGCTGGCTGGAGACCCTCTACTCTC
AGAAGACCCAGAACCTGACAAGACCCCTACAGCCACTGTTACCAACGAAGCCAGCTGTTGGAGCGGCCCC
TCCCCAGAGGGTCCTGTACCCCTCACAGGGGAGGAACTGGACTTGCGGCTCATTCGGACAAAGGGGGGTG
TGGACGCAGCCCTGGAATATGCCAAGACCTGGAGCCGCTATGCCAAGGAACTGCTTGCCTGGACTGAAAA
GAGAGCCAGCTATGAGCTGGAGTTTGCTAAGAGCACCATGAAGATCGCTGAAGCTGGCAAGGTGTCCATT
CAACAGCAGAGCCACATGCCTCTGCAGTACATCTACACCCTGTTTCTGGAGCACGATCTCAGCCTGGGAA
CCCTGGCCATGGAGACAGTGGCCCAGCAGAAAAGAGACTACTACCAGCCCCTCGCCGCCAAACGGACTGA
GATTGAGAAGTGGCGGAAGGAGTTCAAGGAGCAGTGGATGAAGGAGCAGAAGCGGATGAATGAGGCGGTG
CAGGCACTGCGGCGCGCCCAGCTGCAGTATGTGCAACGCAGCGAGGACCTGCGGGCACGCTCCCAGGGGT
CCCCTGAGGACTCGGCCCCCCAGGCCTCGCCGGGACCTAGCAAGCAGCAGGAGCGGCGGCGGCGCTCGCG
AGAGGAGGCCCAGGCCAAGGCGCAGGAGGCCGAGGCGCTGTACCAGGCCTGTGTCCGCGAGGCCAACGCG
CGGCAGCAGGACCTGGAGATCGCCAAGCAGCGAATCGTGTCGCACGTGCGCAAGCTGGTGTTTCAGGGGG
ATGAAGTGCTGAGGCGGGTGACGCTGAGTCTCTTCGGGCTGCGGGGGGCGCAGGCAGAGCGTGGCCCCCG
CGCCTTCGCCGCCCTGGCCGAGTGCTGTGCGCCCTTTGAGCCGGGCCAGCGCTACCAGGAGTTTGTACGG
GCGCTGCGGCCCGAGGCCCCGCCGCCCCCGCCGCCCGCCTTCTCCTTCCAGGAGTTCCTTCCCTCCTTGA
ACAGCTCCCCTCTGGACATCAGAAAGAAGCTCTCTGGGCCTCTTCCTCCAAGGCTGGATGAGAATTCAGC
TGAGCCAGGCCCTTGGGAGGATCCGGGCACAGGCTGGCGCTGGCAAGGGACTCCAGGCCCCACTCCGGGC
AGCGATGTGGACAGCGTGGGTGGCGGCAGCGAGTCTCGGTCCCTGGACTCACCCACTTCCAGCCCAGACC
TGGGAGACGGGCTGGAGAATGGGCTGGGCAGCCCCTTCGGGAAGTGGACACTGTCCAGCGCGGCTCAGAC
CCACCAGCTGCGGCGACTGCGGGGCCCAGCCAAGTGCCGCGAGTGCGAAGCCTTCATGGTCAGCGGGACG
GAGTGTGAGGAGTGCTTTCTGACCTGCCACAAGCGCTGCCTGGAGACTCTCCTGATCCTCTGTGGACACA
GGCGGCTCCCAGCCCGGACACCCCTTTTTGGGGTTGACTTCCTGCAGCTACCCAGGGACTTCCCGGAGGA
GGTACCCTTTGTGGTCACGAAGTGCACGGCTGAGATAGAACACCGTGCCCTGGATGTGCAGGGCATTTAC
CGGGTCAGCGGGTCCCGGGTCCGTGTGGAGCGGCTGTGCCAGGCTTTCGAGAATGGCCGAGCGTTGGTGG
AGCTGTCGGGGAACTCGCCTCATGACGTCTCGAGTGTCCTCAAGCGATTTCTTCAGGAGCTCACCGAGCC
CGTGATCCCCTTCCACCTCTACGACGCCTTCATCTCTCTGGCTAAGACCTTGCATGCAGACCCTGGGGAC
GACCCTGGGACCCCCAGCCCCAGCCCTGAGGTTATCCGCTCGCTGAAGACCCTCTTGGTACAGCTGCCTG
ACTCTAACTACAACACCCTGCGGCACCTGGTGGCCCATCTGTTCAGGGTGGCTGCACGATTTATGGAAAA
CAAGATGTCTGCCAACAACCTGGGCATTGTGTTTGGGCCGACACTGCTGCGGCCGCCGGACGGCCCGCGG
GCAGCCAGCGCCATCCCTGTCACCTGCCTGCTGGACTCTGGGCATCAGGCCCAGCTTGTGGAGTTCCTCA
TCGTGCACTACGAGCAGATCTTTGGGATGGATGAGCTCCCCCAGGCCACTGAGCCCCCGCCCCAAGACTC
CAGCCCAGCCCCTGGGCCCCTCACAACCAGCTCCCAACCGCCACCCCCGCACCTTGACCCAGACTCCCAG
CCCCCAGTCCTAGCCTCAGACCCCGGCCCAGACCCCCAGCACCACAGTACCCTGGAGCAGCATCCCACGG
CCACACCTACCGAGATTCCAACTCCACAGAGTGACCAGAGAGAGGACGTGGCTGAAGACACCAAAGATGG
GGGAGGGGAAGTGTCCAGCCAAGGCCCAGAGGACTCACTCCTGGGGACACAGTCTCGTGGCCACTTCAGC
CGCCAGCCAGTGAAGTATCCCCGGGGCGGTGTGAGGCCTGTAACCCACCAGCTGTCCAGTCTGGCCCTGG
TGGCTTCCAAGCTGTGCGAGGAGACCCCCATCACATCAGTGCCCAGAGGGAGTTTGCGGGGGCGGGGGCC
CAGCCCTGCAGCTGCCTCCCCTGAGGGCAGCCCCCTGCGCCGCACCCCGCTGCCCAAGCATTTTGAGATT
ACCCAGGAGACAGCCCGGCTACTCTCGAAATTGGACAGCGAGGCTGTGCCCAGGGCCACCTGCTGCCCGG
ACGTCCAGCCTGAGGAAGCCGAGGACCATCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

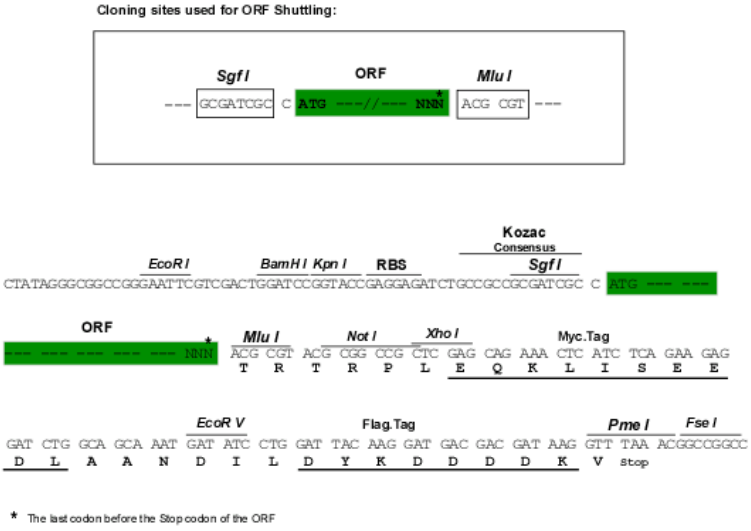
>RC239810 representing NM_001288999
Red=Cloning site Green=Tags(s)

MDAAEPGLPPGPEGRKRYSDIFRSLDNLEISLGNVTLEMLAGDPLLSEDPEPDKTPTATVTNEASCWSGP
SPEGPVPLTGEELDLRLIRTKGGVDAALEYAKTWSRYAKELLAWTEKRASYELEFAKSTMKIAEAGKVSI
QQQSHMPLQYIYTLFLEHDLSLGTLAMETVAQQKRDYYQPLAAKRTEIEKWRKEFKEQWMKEQKRMNEAV
QALRRAQLQYVQRSEDLRARSQGSPEDSAPQASPGPSKQQERRRRSREEAQAKAQEAEALYQACVREANA
RQQDLEIAKQRIVSHVRKLVFQGDEVLRRVTLSLFGLRGAQAERGPRAFAALAECCAPFEPGQRYQEFVR
ALRPEAPPPPPPAFSFQEFLPSLNSSPLDIRKKLSGPLPPRLDENSAEPGPWEDPGTGWRWQGTPGPTPG
SDVDSVGGGSESRSLDSPTSSPDLGDGLENGLGSPFGKWTLSSAAQTHQLRRLRGPAKCRECEAFMVSGT
ECEECFLTCHKRCLETLLILCGHRRLPARTPLFGVDFLQLPRDFPEEVPFVVTKCTAEIEHRALDVQGIY
RVSGSRVRVERLCQAFENGRALVELSGNSPHDVSSVLKRFLQELTEPVIPFHLYDAFISLAKTLHADPGD
DPGTPSPSPEVIRSLKTLLVQLPDSNYNTLRHLVAHLFRVAARFMENKMSANNLGIVFGPTLLRPPDGPR
AASAIPVTCLLDSGHQAQLVEFLIVHYEQIFGMDELPQATEPPPQDSSPAPGPLTTSSQPPPPHLDPDSQ
PPVLASDPGPDPQHHSTLEQHPTATPTEIPTPQSDQREDVAEDTKDGGGEVSSQGPEDSLLGTQSRGHFS
RQPVKYPRGGVRPVTHQLSSLALVASKLCEETPITSVPRGSLRGRGPSPAAASPEGSPLRRTPLPKHFEI
TQETARLLSKLDSEAVPRATCCPDVQPEEAEDHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

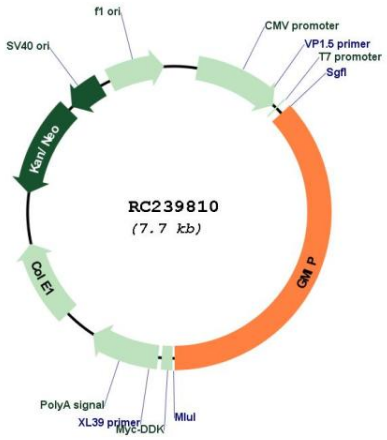



**ACCN:** NM_001288999

**ORF Size:** 2832 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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_001288999.2 |
| **RefSeq Size:** | 3481 bp |
| **RefSeq ORF:** | 2835 bp |
| **Locus ID:** | 51291 |
| **UniProt ID:** | Q9P107 |
| **Cytogenetics:** | 19p13.11 |
| **Protein Families:** | Druggable Genome |
| **MW:** | 104.4 kDa |
| **Gene Summary:** | This gene encodes a member of the ARHGAP family of Rho/Rac/Cdc42-like GTPase activating proteins. The encoded protein interacts with the Ras-related protein Gem through its N-terminal domain. Separately, it interacts with RhoA through a RhoGAP domain, and stimulates RhoA-dependent GTPase activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014] |

## Product images:




Circular map for RC239810