

## Product datasheet for **RR213916**

### Actg1 (NM\_001127449) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Actg1 (NM\_001127449) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Actg1  
 Synonyms: Actg  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR213916 representing NM\_001127449  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGAAGAAATCGCCGCCCTCGTCATTGACAATGGCTCCGGCATGTGCAAAGCTGGCTTTGCTGGG  
 ACGACGCCCCAGGGCCGTGTTTCTTCCATCGTCGGGCGCCCCGACACCAGGGTGTATGGTGGGCAT  
 GGGCCAGAAAGACTCGTACGTGGGTGATGAGGCCAGAGCAAGAGGGGATTCTGACCCTGAAGTACCT  
 ATTGAGCACGGCATTGTACCAACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACAACGAGC  
 TGGCTGTGGCCCTGAGGAGCACCCGGTCTTCTGACCGAGGCCCCCTGAACCCCAAAGCTAACAGAGA  
 GAAGATGACGCAGATAATGTTTGAACCTTCAATACCCAGCCATGTACGTGGCCATTACGGCGGTGCTC  
 TCCTTGTATGCATCTGGGCGTACCCTGGCATTGTATGGACTCTGGTGACGGGGTACACACACAGTGC  
 CCATCTATGAGGGCTACGCCCTTCCCCACGCCATCTTGGCTCTGGACCTGGCTGGCCGGGACCTGACAGA  
 CTACCTCATGAAGATCCTGACTGAAAGGGGCTACAGCTTACCACCCTGCTGAGAGGGAAATTGTTGCT  
 GACATAAAGGAGAAGCTGTGCTATGTTGCCCTGGATTTGAGCAAGAAATGGCTACTGCTGCATCATCTT  
 CCTTTTGGAGAAGAGTTATGAGCTGCCGTGATGGCAGGTGATCACCATTGGCAATGAGCGCTTCCGGTG  
 TCCAGAGGCTCTTCCAGCCTTCTTCCGTCGGCATGGAGTCTGTGGCATCCACGAGACCACCTTCAAC  
 TCCATCATGAAGTGTGATGTGGACATCCGAAAGACCTGTATGCCAACACAGTGTGTCTGGTGGTACCA  
 CCATGTATCCAGGCATTGCTGACAGGATGCAGAAGGAGATCACAGCCCTGGCTCCAGCACAATGAAGAT  
 TAAGATCATTGCTCCTCCTGAACGCAAGTACTCAGTCTGGATTGGCGGCTCCATCCTGGCCTCACTGTCC  
 ACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTACGGCCCTCCATTGTCCACCGCAAT  
 GCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR213916 representing NM\_001127449  
Red=Cloning site Green=Tags(s)

MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPISIVGRPRHQGMVGMGQKDSYVGDEAQSQRGILTLKYP  
 IEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTAMPYVAIQAVL  
 SLYASGRTTGIVMDSGDGVHTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTAEIREIVR  
 DIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFN  
 SIMKCDVDIRKDLAYANTVLSGGTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLS  
 TFQQMWISKQEYDESGPSIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

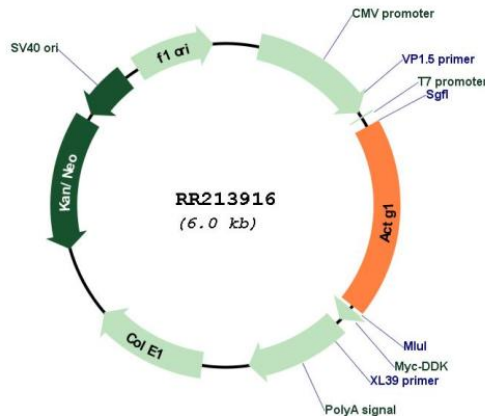
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001127449

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1125 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_001127449.1</a> , <a href="#">NP_001120921.1</a>   |
| <b>RefSeq Size:</b>           | 1909 bp   |
| <b>RefSeq ORF:</b>            | 1128 bp   |
| <b>Locus ID:</b>              | 287876  |
| <b>UniProt ID:</b>            | <a href="#">P63259</a>  |
| <b>Cytogenetics:</b>          | 10q32.3   |
| <b>MW:</b>                    | 41.8 kDa  |
| <b>Gene Summary:</b>          | Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.[UniProtKB/Swiss-Prot Function]   |