

## Product datasheet for RR202192

### Actc1 (NM\_019183) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actc1 (NM_019183) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actc1
Synonyms:	MGC156490
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR202192 representing NM_019183 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTGACGACGAGGAGACCACAGCTTTGGTGTGCGACAATGGCTCCGGACTGGTGAAGGCTGGCTTTG  
CGGGTGATGATGCTCCCAGAGCTGTCTTCCCATCCATCGTGGGTGCGCCACGCCACCAGGGTGCATGGT  
AGGTATGGGGCAGAAAGACTCCTATGTAGGTGACGAGGCTCAGAGCAAGCGAGGCATCCTGACTCTGAAG  
TACCCCATAGAGCAGGCATTATCACCAACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACA  
ATGAGCTCCGTGTGGCCCTGAGGAGCACCCGACCCTGCTCACTGAGGCCCACTGAACCCCAAGGCCAA  
CCGTGAGAAGATGACACAGATCATGTTTGAGACCTTCAATGTGCCTGCCATGTATGTGGCCATCCAGGCG  
GTGCTGTCCCTGTACGCTTCTGGGAGAACCACAGGCATTGTTCTGGATTCTGGCGACGGTGTGACTCATA  
ACGTCCCATCTATGAGGGTTATGCCTTACCCCATGCCATCATGCGTCTGGATCTAGCTGGTCCGGACCT  
CACTGACTACCTTATGAAGATCCTCACTGAGCGCGGGTACTCCTTTGTCACCACCCTGAACGTGAAATT  
GTCCGAGACATCAAAGAAAACTGTGTTATGTCGCCCTGGATTTTGAAGATGAGATGGCCACCGCTGCAT  
CTTCTCCTCTCTGGAGAAGAGCTACGAACTTCCCGATGGCCAGGTCATCACCATTGGCAACGAGCGTTT  
CCGCTGTCTGAGACTCTTCCAGCCCTTTTCATTGGTATGGAGTCTGCCGGCATTACGAAACTACT  
TATAACGACATCATGAAGTGTGACATCGATATCCGAAAGACCTGTACGCCAACAATGTCTGTCTGGAG  
GCACCACCATGTACCCTGGGATTGCTGATCGTATGCAAAAAGGAAATAACTGCACTGGCTCCAGCACCAT  
GAAGATTAAGATTATTGCTCCCCCTGAGCGTAAATACTCTGTCTGGATTGGGGGCTCCATCCTGGCCTCT  
CTGTCTACCTTCCAACAATGTGGATCAGCAAGCAAGGTACGATGAGGCCGGGCCCTCCATTGTCCACC  
GCAAGTGCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR202192 representing NM\_019183  
Red=Cloning site Green=Tags(s)

MCDDEETTALVCDNGSGLVKAGFAGDDAPRAVFPISVGRPRHQVVMGMGQKDSYVGDEAQS~~SRG~~ILTLK  
 YPIEHGIITNWDMEKIWHHTFYNELRVAP~~EEHPTLL~~TEAPLNPKANREKMTQIMFETFNVPAMYVAIQ  
 VLSLYASGR~~TTGIVL~~DSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI  
 VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT  
 YNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS  
 LSTFQMMWISKQEYDEAGPSIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2533\\_c12.zip](https://cdn.origene.com/chromatograms/ja2533_c12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_019183

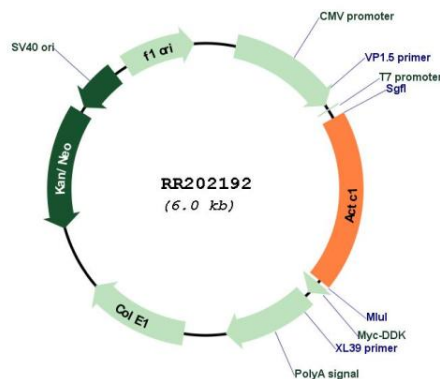
**ORF Size:** 1131 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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>	<u><a href="#">NM_019183.1</a></u> , <u><a href="#">NP_062056.1</a></u>
<b>RefSeq Size:</b>	1489 bp
<b>RefSeq ORF:</b>	1134 bp
<b>Locus ID:</b>	29275
<b>UniProt ID:</b>	<u><a href="#">P68035</a></u>
<b>Cytogenetics:</b>	3q35
<b>MW:</b>	42.5 kDa
<b>Gene Summary:</b>	may act as a structural component of the cytoskeleton; may play a role in muscle function [RGD, Feb 2006]

### Product images:



Circular map for RR202192