

## Product datasheet for **MC217685**

### Actg1 (BC021796) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actg1 (BC021796) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Actg1
Synonyms:	MGC28612, E51, Actg
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC021796 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAAGAAGAAATCGCCGCACTCGTCATTGACAATGGCTCCGGCATGTGCAAAGCCGGCTTTGCTGGCG  
ACGACGCCCCAGGGCCGTGTTCCCTTCCATCGTAGGGCGCCCCGACACCAGGGCGTCATGGTGGGCAT  
GGGCCAGAAAGACTCATACGTGGGTGACGAGGCCAGAGCAAGAGGGGTATCCTGACCCTGAAGTACCTT  
ATCGAACACGGCATTGTCACTAACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACAATGAGC  
TGGCTGTGGCTCCTGAGGAGCACCCGGTCTTCTGACCGAGGCCCCCTGAACCCCAAAGCTAACAGAGA  
GAAGATGACGCAGATAATGTTTGAACCTTCAATACCCAGCCATGTACGTGGCCATTACGGCGGTGCTG  
TCCTTGTATGCATCTGGGCGCACCCTGGCATTGTCTGACTCTGGTGACGGGGTACACACACAGTGC  
CCATCTATGAGGGCTACGCCCTTCCCCACGCCATCTTGGCTCTGGACCTGGCTGGCCGGGACCTGACAGA  
CTACCTCATGAAGATCCTGACTGAACGGGGCTACAGCTTACCACCCTGCTGAGAGGGAAATTGTTGCT  
GACATAAAGGAGAAGCTGTGCTATGTTGCCCTGGATTTGAGCAAGAAATGGCTACTGCTGCATCATCTT  
CCTCCTTGGAGAAGAGTTACGAGCTGCCGACGGCAGGTGATCACCATTGGCAATGAGCGGTTCCGGTG  
TCCGGAGGCACTTCCAGCCTTCTTCCGTCGGCATGGAGTCTGTGGTATCCATGAGACCACTTCAAC  
TCCATCATGAAGTGTGATGTGGATATCCGCAAAGACCTGTATGCCAATACAGTGTGTCTGGTGGTACCA  
CCATGTACCCAGGCATTGCTGACAGGATGCAGAAGGAGATCACAGCCCTAGCACCTAGCACGATGAAGAT  
TAAGATCATTGCTCCCCCTGAGCGCAAGTACTCAGTCTGGATCGTGGCTCCATTCTGGCCTCACTGTCC  
ACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGATGAGTACGGCCCTCCATCGTCCACCGCAAT  
GCTTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



[View online >](#)

<b>ACCN:</b>	BC021796
<b>Insert Size:</b>	1128 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>BC021796, AAH21796</u>
<b>RefSeq Size:</b>	1909 bp
<b>RefSeq ORF:</b>	1127 bp
<b>Locus ID:</b>	11465
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	Actins are highly conserved proteins that are involved in various types of cell motility and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta, and gamma, have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. Actin, gamma 1, encoded by this gene, is a cytoplasmic actin found in non-muscle cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]