

Product datasheet for **MC208102**

Actb (NM_007393) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actb (NM_007393) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Actb
Synonyms:	Act; Actx; beta-a; beta-actin; E430023M04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208102 representing NM_007393 Red =Cloning site Blue =ORF

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGATGACGATATCGCTGCGCTGGTCTGCGACAACGGCTCCGGCATGTGCAAAGCCGGCTTCGCGGGCG
ACGATGCTCCCGGGCTGTATCCCTCCATCGTGGGCCGCCCTAGGCACCGGGTGTGATGGTGGGAAT
GGGTGAGAAGGACTCCTATGTGGGTGACGAGGCCAGAGCAAGAGAGGTATCCTGACCCTGAAGTACCCC
ATTGAACATGGCATTGTTACCACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACAATGAGC
TGGTGTGGCCCTGAGGAGCACCTGTGCTGCTACCGAGGCCCCCTGAACCTAAGGCCAACCGTGA
AAAGATGACCCAGATCATGTTTGAACCTTCAACACCCAGCCATGTACGTAGCCATCCAGGCTGTGCTG
TCCCTGTATGCCTCTGGTCTGACACAGGATTGTGATGGACTCCGGAGACGGGGTCAACCACTGTGC
CCATCTACGAGGGCTATGCTCTCCCTCACGCCATCCTGCGTCTGGACCTGGCTGGCCGGGACCTGACAGA
CTACCTCATGAAGATCCTGACCGAGCGTGGCTACAGCTTCACCACCACAGCTGAGAGGGAATCGTGGCT
GACATCAAAGAGAAGCTGTGCTATGTTGCTCTAGACTTCGAGCAGGAGATGGCCACTGCCGATCCTCTT
CCTCCCTGGAGAAGAGCTATGAGCTGCCTGACGGCCAGGTCATCACTATTGGCAACGAGCGGTTCCGATG
CCCTGAGGCTCTTTCCAGCCTTCCTTCTGGGTATGGAATCCTGTGGCATCCATGAACTACATTCAAT
TCCATCATGAAGTGTGACGTTGACATCCGTAAGACCTCTATGCCAACACAGTGTGTCTGGTGGTACCA
CCATGTACCCAGGCATTGCTGACAGGATGAGAAGGAGATTACTGCTCTGGCTCCTAGCACCATGAAGAT
CAAGATCATTGCTCCTCTGAGCGCAAGTACTCTGTGTGGATCGGTGGCTCCATCCTGGCTCACTGTCC
ACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTACGATGAGTCCGGCCCTCCATCGTGCACCGCAAGT
GCTTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-MluI
ACCN:	NM_007393
Insert Size:	1128 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC138611 , AAI38612
RefSeq Size:	1584 bp
RefSeq ORF:	1128 bp
Locus ID:	11461
UniProt ID:	P60710
Cytogenetics:	5 81.8 cM

Gene Summary:

This gene encodes a member of the actin family of proteins. Actins are highly conserved proteins that are among the most abundant proteins in eukaryotic cells and are involved in cell motility, structure, and integrity. Localization, stability, and translation of the transcribed mRNA are regulated through the binding of multiple factors to its 3' UTR sequence. Homozygous knockout mice for this gene exhibit embryonic lethality. Numerous pseudogenes of this gene have been identified in the mouse genome. [provided by RefSeq, Sep 2015]