

## Product datasheet for MR225387

### Actc1 (NM\_009608) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actc1 (NM_009608) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actc1
Synonyms:	Actc-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225387 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTGACGACGAGGAGACCACCGCTTTGGTGTGTGACAATGGCTCCGGGCTGGTGAAGCCGGCTTTG  
CGGGTGATGACGCCCCAGAGCTGTCTTCCCGTCCATCGTGGGTGCGCCACGTCACCAGGGTGTGATGGT  
GGGTATGGGACAGAAGGACTCTTATGTAGGTGATGAAGCCAGAGCAAGCGAGGTATCCTGACTCTGAAG  
TACCCCATGAACATGGCATTATCACCAACTGGGATGACATGGAGAAGATCTGGCACCATACATTCTACA  
ATGAGCTCCGTGTGGCCCGAGAGGAACACCAACCCTGCTCACTGAAGCCCGCTGAACCCCAAGGCCAA  
CCGTGAGAAGATGACCCAGATCATGTTTGAGACCTTCAATGTGCCTGCCATGTATGTCGCCATCCAGGCA  
GTGCTGTCTCTGTATGCTTCTGGAAGAACCACAGGCATTGTTCTGGATTCTGGCGATGGTGAACCTATA  
ATGTTCCCATCTATGAGGGTTATGCCTTACCCCATGCCATCATGCGCCTGGATCTAGCTGGTCCGGACCT  
CACTGACTACCTCATGAAGATCCTCACTGAGCGCGGGTACTCCTTTGTCACCACTGCTGAACGTGAAATT  
GTCCGTGACATAAAAGAAAAACTGTGTTACGTGCGCCTGGATTTTGAGAACGAGATGGCCACAGCTGCAT  
CTTCTCTCTCTGGAGAAGAGCTATGAACTTCTGACGGCCAGGTCATCACCATTGGCAACGAGCGCTT  
CCGCTGTCCAGAGACTCTTCCAGCCCTTTTCATTGGTATGGAATCTGCTGGCATTATGAACTACT  
TACAACGATCATGAAGTGTGACATCGATATCCGAAAAGACCTGTATGCCAACAATGTCCTATCTGGAG  
GCACCACATGTACCCTGGTATTGCCGATCGTATGCAAAAAGGAAATCACTGCACTGGCTCCAGCACCAT  
GAAGATCAAGATTATTGCTCCCCCTGAGCGTAAATACTCTGTCTGGATTGGGGGCTCCATCCTGGCCTCT  
CTGTCCACCTTCCAGCAATGTGGATCAGCAAGCAAGATATGATGAGGCAGGCCATCCATTGTCCACC  
GCAAGTGCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225387 protein sequence  
Red=Cloning site Green=Tags(s)

MCDDEETALVCDNGSGLVKAGFAGDDAPRAVFPSIVGRPRHQVVMGMGQKDSYVGDEAQS~~SRGILTLK~~  
 YPIEHGIITNWDMEKIWHHTFYNELRVAP~~EEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQ~~  
 VLSLYASGR~~TTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI~~  
 VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT  
 YNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS  
 LSTFQMWISKQEYDEAGPSIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009608

**ORF Size:** 1131 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.
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:** [NM\\_009608.1](#), [NM\\_009608.2](#), [NM\\_009608.3](#), [NM\\_009608.4](#), [NP\\_033738.1](#)

**RefSeq Size:** 1390 bp

**RefSeq ORF:** 1134 bp

**Locus ID:** 11464

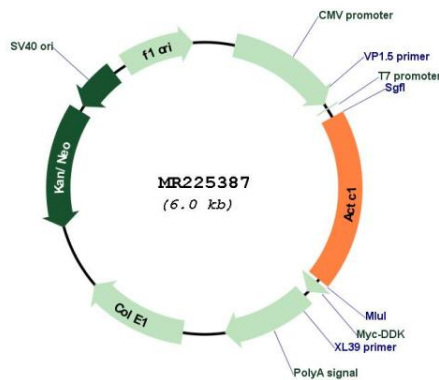
**UniProt ID:** [P68033](#)

**Cytogenetics:** 2 57.55 cM

**MW:** 42 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR225387