

Product datasheet for **MG225387**

Actc1 (NM_009608) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actc1 (NM_009608) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Actc1
Synonyms:	Actc-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225387 representing NM_009608 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGACGACGAGGAGACCACCGCTTTGGTGTGTGACAATGGCTCCGGGCTGGTGAAGGCCGGCTTTG
CGGGTGATGACGCCCCAGAGCTGTCTTCCCGTCCATCGTGGGTCGCCACGTCACCAGGGTGCATGGT
GGGTATGGGACAGAAGGACTCTTATGTAGGTGATGAAGCCAGAGCAAGCGAGGTATCCTGACTCTGAAG
TACCCATTGAACATGGCATTATCACCAACTGGGATGACATGGAGAAGATCTGGCACCATACATTCTACA
ATGAGCTCCGTGTGGCCCCAGAGGAACACCCAACCCTGCTCACTGAAGCCCGCTGAACCCCAAGGCCAA
CCGTGAGAAGATGACCCAGATCATGTTTGAGACCTTCAATGTGCCTGCCATGTATGTCGCCATCCAGGCA
GTGCTGTCTCTGTATGCTTCTGGAAGAACCACAGGCATTGTTCTGGATTCTGGCGATGGTGAACCTATA
ATGTTCCCATCTATGAGGGTTATGCCTTACCCCATGCCATCATGCGCCTGGATCTAGCTGGTCGGGACCT
CACTGACTACCTCATGAAGATCCTCACTGAGCGCGGGTACTCCTTTGTCACCACTGCTGAACGTGAAATT
GTCCGTGACATAAAAAGAAAACTGTGTTACGTGCGCCTGGATTTTGAGAACGAGATGGCCACAGCTGCAT
CTTCTCCTCTCTGGAGAAGAGCTATGAACTTCTGACGGCCAGGTCATCACCATTGGCAACGAGCGCTT
CCGCTGTCCAGAGACTCTTCCAGCCCTCTTTCATTGGTATGGAATCTGCTGGCATTATGAACTACT
TACAACGACATCATGAAGTGTGACATCGATATCCGAAAGACCTGTATGCCAACAATGTCCTATCTGGAG
GCACCACCATGTACCCTGGTATTGCCGATCGTATGCAAAAAGGAAATCACTGCACTGGCTCCAGCACCAT
GAAGATCAAGATTATTGCTCCCCCTGAGCGTAAATACTCTGTCTGGATTGGGGGCTCCATCCTGGCCTCT
CTGTCCACCTTCCAGCAAATGTGGATCAGCAAGCAAGGTATGATGAGGCAGGCCATCCATTGTCCACC
GCAAGTGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225387 representing NM_009608
 Red=Cloning site Green=Tags(s)

MCDDEETALVCDNGSGLVKAGFAGDDAPRAVFPISVGRPRHQVVMGMGQKDSYVGDEAQSQRGILTLK
 YPIEHGIITNWDMEKIWHHTFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNPAMYVAIQ
 VLSLYASGRRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI
 VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT
 YNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS
 LSTFQQMWISKQEYDEAGPSIVHRKCF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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_009608.3](#), [NP_033738.1](#)

RefSeq Size: 1390 bp

RefSeq ORF: 1134 bp

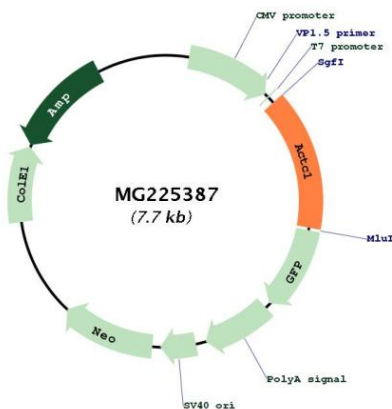
Locus ID: 11464

UniProt ID: [P68033](#)

Cytogenetics: 2 57.55 cM

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 MG225387