

## Product datasheet for MR229578

### Acta1 (NM\_001272041) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acta1 (NM_001272041) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acta1
Synonyms:	AA959943; Acta-2; Acts; Actsk-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229578 representing NM_001272041 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTGCGACGAAGACGAGACCACCGCTCTGTGTGTGACAACGGCTCTGGCCTGGTAAAGCTGGCTTTG  
CCGGGGATGATGCCCCAGGGCTGTGTTCCCATCCATCGTGGGCCGACCCGTCACCAGGGTGCATGGT  
AGGTATGGGTGAGAAGGACTCCTACGTGGGTGATGAGGCCAGAGCAAGCGAGGTATCCTGACCCTGAAG  
TACCCATTGAACATGGCATCATCACTACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACA  
ATGAGCTGCGTGTGGCCCTGAGGAGCACCCGACTCTGCTCACCGAGGCCCCCTGAACCCAAAGCTAA  
CCGGGAGAAGATGACTCAAATCATGTTTGAGACCTTCAACGTGCCTGCCATGTATGTGGCTATCCAGGCG  
GTGCTGTCCCTCTATGCCTCCGGCCGTACCACCGCATCGTGTGGATTCTGGGACGGTGTACCCACA  
ACGTGCCCATCTATGAGGGCTATGCCCTGCCACACGCCATCATGCGTCTGGACCTGGCCGGTCCGCGACCT  
CACTGACTACCTGATGAAAATCCTCACTGAGCGTGGCTATTCTTCGTGACCACAGCTGAACGTGAGATT  
GTGCGCGACATCAAAGAGAAGCTGTGCTATGTGGCCCTGGACTTCGAGAATGAGATGGCCACCGTGCCT  
CTTCTCCTCCCTGGAGAAGAGCTATGAGCTGCCTGACGGCAGGTCATACCATCGGCAATGAGCGTTT  
CCGTTGCCCGGAGACGCTTCCAGCCTTCCTTATCGGTATGGAGTCTGCGGGGATCCATGAGACCACC  
TACAACAGCATCATGAAGTGCACATCGACATCAGGAAGGACCTGTACGCCAACAACGTCAATGTCAGGGG  
GCACCACATGTACCCTGGTATCGCTGACCGCATGCAGAAGGAGATCACAGCTCTGGCTCCAGCACCAT  
GAAGATCAAGATCATCGCCCCCTGAGCGCAAGTACTCAGTGTGGATCGGTGGCTCCATCCTGGCCTCG  
CTGTCCACCTCCAGCAGATGTGGATCACCAAGCAGGAGTACGACGAGGCTGGCCCTCCATTGTGCACC  
GCAATGCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229578 representing NM\_001272041  
 Red=Cloning site Green=Tags(s)

MCDEDETTALVCDNGSGLVKAGFAGDDAPRAVFPSIVGRPRHQVVMGMGQKDSYVGDEAQS~~SRGILTLK~~  
 YPIEHGIITNWDMEKIWHHTFYNELRVAP~~EEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQ~~  
 VLSLYASGR~~TTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI~~  
 VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT  
 YNSIMKCDIDIRKDLYANNVMSGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS  
 LSTFQQMWITKQEYDEAGPSIVHRKCF

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\_001272041

**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.

**RefSeq:** [NM\\_001272041.1](#), [NP\\_001258970.1](#)

**RefSeq Size:** 1571 bp

**RefSeq ORF:** 1134 bp

**Locus ID:** 11459

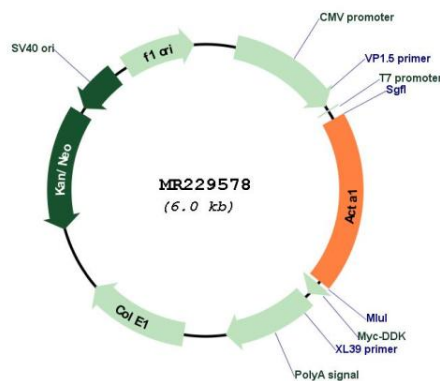
**UniProt ID:** [P68134](#)

**Cytogenetics:** 8 72.26 cM

**MW:** 42.1 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 MR229578