

## Product datasheet for **MC222590**

### Actn4 (NM\_021895) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actn4 (NM_021895) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Actn4
Synonyms:	C77391
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222590 representing NM\_021895  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGACTACCACGCAGCGAACCAGGCGTACCAGTACGGCCGAACAGCGGGCGGCAATGGCGCGG  
 GTGGCGCGGAAGCATGGGCGACTACATGGCCCAGGAGGATGACTGGACCGGGACTGCTGTTGGACCC  
 GGCTGGGAGAAGCAGCAGCGCAAGACCTTACAGCCTGGTGCAACTCTCATCTTCGGAAGGCTGGCACT  
 CAGATCGAGAATATCGATGAGGACTTCAGGGATGGGCTCAAACCTATGCTTCTGTTGGAGGTCATTTGAG  
 GGGAGCGTTTGCCTAAGCCAGAGCGGGGAAGATGCGAGTGCACAAGATCAACAATGTAACAAAGCCCT  
 GGACTTACATCGCCAGCAAGGGAGTCAAGCTGGTGTCCATCGGGCAGAAGAGATTGTGGATGGCAATGCA  
 AAGATGACCTGGGAATGATCTGGACCATCATCCTCAGATTTGCCATCCAGGACATCTCTGTGGAAGAGA  
 CCTCTGCTAAGGAAGGACTCCTCCTCTGGTGCCAGAGAAAAGACAGCCCCATATAAAAACGTCACAGTCCA  
 GAACCTCCATATCAGCTGGAAGGACGGGCTGGCCTTCAATGCACTCATCCACCGCACAGGCCTGAGCTG  
 ATTGAGTATGACAAGCTCGCGAAGGATGATCCAGTCAACCAACCTAAACAATGCATTTGAAGTGGCTGAGA  
 AATACCTCGATATCCCCAAGATGTTGGATGCTGAGGACATCGTGAACACAGCCCGGCCGACGAGAAGGC  
 CATAATGACATATGTGTCCAGCTTACCATGCCTTTTCAGGAGCGCAGAAGGCTGAGACCGCTGCCAAC  
 CGGATCTGCAAGGTGCTGGCTGTGAACCAGGAAAATGAGCACCTGATGGAAGACTATGAACGCTGGCCA  
 GTGATCTTCTAGAGTGGATTTCGGCGCACCATCCCTGGCTGGAGGACCGGGTGCCTCAGAAGACCATCCA  
 GGAATGCAGCAGAAGCTGGAGGACTTCGAGACTATAGGCGTGTGCACAAGCCGCCAAGGTGCAGGAG  
 AAGTGTGAGTGGAGATCAACTTCAACACACTGCAGACCAAGCTGCGGCTCAGCAACCGGCTGCCTTCA  
 TGCCCTCCGAGGGCAGGATGGTCTCCGACATCAACAATGGATGGCAGCACCTGGAGAGGCTGAGAAGGG  
 CTATGAAGAATGGCTGCTGAATGAAATCCGTAGGCTGGAACCGGCTTGACCACCTGGCAGAGAAGTCCGG  
 CAGAAGGCTTCCATCCACGAGGCTGGACTGATGGGAAGGAGGCCATGCTGAAGCAACGGGACTACGAGA  
 CAGCCACCCTGTGAGACATCAAAGCTCTGATCCGAAAACATGAGGCCTTTGAAAGTGACCTGGTGCACA  
 CCAGGACCGAGTGGAGCAGATTGCTGCAATTGCTCAGGAGCTCAACGAGCTGGACTACTATGACTCCAC  
 AACGTCAACACACGGTGCCAGAAGATCTGCGACCAGTGGGATAACCTGGGCTCTCTGACACACAGTCGCA  
 GGAAGCCTTGGAGAAAACAGAGAAACAGCTAGAGACCATCGACCAGCTACATTTGGAGTATGCCAAGCG  
 GGCTGCACCCTTCAACAAGTGGATGGAGAGTGCATGGAGGACCTGCAGGACATGTTTCATCGTCCACACC  
 ATCGAGGAGATCGAGGGCTGATCTCAGCCATGACCAGTTCAAGTCCACCCTGCCAGATGCTGACAGGG  
 AGCGTGAGGCCATCCTGGCCATCCACAAGGAGGCCAGAGGATCGCTGAGAGCAATCACATCAAGCTGTC  
 GGGCAGCAATCCCTACACCCTGTTACCCCCAGATCATCAACTCCAAGTGGGAGAAGGTGCAGCAGCTG  
 GTGCCAAGAGGGGACCATGCACTCCTGGAGGAGCAGAGCAAGCAGCAATCCAATGAGCACCTTCGCCGAC  
 AGTTTCGCCAGCCAAGCCAATATGGTGGGGCCGTGGATCCAGACCAAGATGGAGGAGATCGGGCGCATCTC  
 CATTGAGATGAACGGGACTCTGGAAGACCAGCTGAGCCACCTGAAGCAGTACGAGCGCAGCATCGTGGAC  
 TACAAGCCAGCTGGACCTGCTGGAGCAGCAGCACCAGCTCATCCAGGAGGCCCTCATCTTCGACAACA  
 AGCACACCAACTACACAATGGAGCATATCCGTGTGGGCTGGGAGCAGCTGCTCACGACCATTGCCCGCAC  
 CATCAATGAGGTGGAAAACAGATCCTCACCCGAGATGCCAAGGGTATCAGCCAGGAGCAGATGCAAGGAG  
 TTCCGGGCATCCTTCAACCATTTGACAAGGACCATGGCGGGGCACTGGGCCTGAGGAATTCAGGCTCCT  
 GCCTCATCAGCCTGGGCTATGACGTGGAGAATGACCGGCAGGGTATGCTGAGTTCAACCGATCATGAG  
 TGTGGTTGATCCCAACCATAGTGGCCTCGTGACCTTCCAAGCCTTCAATTGACTTCAATGCAAGGGAGACC  
 ACAGACACAGACACAGCTGATCAGGTATCGCCTCCTTCAAGGTCTGGCAGGAGACAAGAACTTCAATCA  
 CTGCTGAGGAACTGCGGAGAGAGCTGCCCCCGACCAGGCCGAGTACTGCATCGCCCGCATGGCACCCCTA  
 CCAGGGGCTGATGCTGCTCCTGGCGCCCTTGACTACAAGTCTTCTCCACAGCCCTCATGGGGAGAGC  
 GACCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_021895
<b>Insert Size:</b>	2739 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>	<a href="#">NM_021895.2</a> , <a href="#">NP_068695.1</a>
<b>RefSeq Size:</b>	3859 bp
<b>RefSeq ORF:</b>	2739 bp
<b>Locus ID:</b>	60595
<b>UniProt ID:</b>	<a href="#">P57780</a>
<b>Cytogenetics:</b>	7 B1
<b>Gene Summary:</b>	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein. Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (By similarity). Involved in tight junction assembly in epithelial cells probably through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (PubMed:18332111). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest isoform (1).