

## Product datasheet for **MR224460**

### Actn3 (NM\_013456) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actn3 (NM_013456) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actn3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224460 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGATGGTTATGCAGCCCGAGGGTCTGGGGCCGGGAGGGCCCTTCTCTGGCGGTGGGGCGGCCG  
 AGTACATGGAACAGGAGGAGACTGGGACCGCACTTGTCTGGACCCGGCCTGGGAGAAAACAGCAGCG  
 GAAAACCTTCACTGCCTGGTGAACCTCACATCTGCGCAAGGCAGGCACGCAGATCGAGAACATTGAAGAG  
 GACTTCCGCAATGGCCTGAAGCTCATGCTGCTCCTGGAGGTCATTTCCGGAGAGAGGCTGCCTAGGCCCG  
 ACAAAGGCAAGATGCGCTTCCACAAAATCGCCAATGTCAATAAAGCCCTAGACTTCATTGCCAGCAAAGG  
 AGTTAAGCTAGTCCATCGGTGCTGAAGAAATGTTGACGGGAACCTGAAGATGACCCTGGGCATGATC  
 TGGACCATCATCTCCGCTTGGCATTCCAGACATCTCTGTAGAAGAGACCTCAGCCAAAGAAGGCTTGC  
 TTCTCTGGTGTGACGGAAAACAGCACCGTACCGCAATGTCAACGTACAGAACTCCATACCAGCTGGAA  
 GGATGGCCTGGCCCTCTGTGCTCATCCACCGTACCGGCCAGACCTCATTGACTATGCCAAGCTTCGC  
 AAGGATGACCCAATTGGAACCTGAACACTGCCTTCGAGGTGGCAGAGAAATACCTGGACATTCCTAAGA  
 TGCTGGATGCAGAAGATATCGTGAACACCCCAAAACCAGATGAGAAAGCCATCATGACCTATGTTTCCTG  
 CTTCTACCATGCGTTTGGCTGGGGCTGAGCAGGCAGAGACTGCTGCCAACAGGATCTGCAAGGTCTTAGCT  
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 GCCGCACTGTCCCATGGCTAGAGAACCAGTGGGCGAACCCAGCATGAGTGCCATGCAGCGCAAGCTGGA  
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 TTCAACACGCTGCAGACCAAGTTGCGCCTGAGCCACCGACCCGCTTTCATGCCCTCCGAGGGCAAGCTGG  
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 GCTGGATGGGGCTATTGAGGACCTGCAGGATGTGTGGCTCGTGCCTCTGTGGAGGAGACCCAGAGCCTG  
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 TCCAAGGAGAGATCCAGAAGATTTGCCAAACATACGGACTACGGCCAAAGTCCGGCAACCCCTACATCAC  
 CCTCAGTTCGCAGGACATCAACAATAAGTGGGATACAGTCAAGAAAGCTGGTACCCAGCCGTGACCAGACA  
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 TTTGACCGGAAGCGGAATGGGATGATGGAGCCCGACGACTTCCGAGCTTGTCTCATCTCCATGGGTTACG  
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 TTCAAAAATCCTGGCAGGAGACAAGAACTACATTACCCAGAGGAGCTGCGGAGAGAGCTCCAGCCGAGC  
 AGGCTGAGTACTGCATCCGTCGGATGGCGCCCTACAAGGGATCTGGGGCTCCATCTGGAGCTCTGGACTA  
 CGTGGCTTCTCTAGTGCCTCTATGGAGAGAGTGACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224460 protein sequence  
 Red=Cloning site Green=Tags(s)

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MMMVMQPEGLGAGEGPFSGGGGGEYMEQEEDWDRDLLLDPWEKQQRKFTAWCNSHLRKAGTQIENIEE
DFRNLKMLLLEVISGERLPRPDGKMRFHKIANVNKALDFIASKGVKLVSIGAEEIVDGNLKMMLGMI
WTIILRFQIDISVEETSAKEGLLLWCQRKTAPYRNVNVQNFHTSWKDGALCALIHRHRPDLIDYAKLR
KDDPIGNLNTAFEVAEKYLDIPKMLDAEDIVNTPKPKDEKAIMTYVSCFYHAFAGAEQAETAANRICKVLA
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AICDQWNLGTLTQKRRDALERMEKLETTIDQLQLEFARRAAPFNWLDGAIEDLQDVWL VHSVEETQSL
LTAHEQFKATLPEADRERGAIGIQGEIQKICQTYGLRPKSGNPYITLSSQDINNKWDTVRKLVPSRDQT
LQEELARQVNERLRQFAAQANAIGPWIQGVVEVGRLAAGLAGSLEEQ MAGLRQEQNIINYKSNIDR
LEGDHQLLQESL VFDNKHTVYSMEHIRVGEQLLTSIARTINEVENQVL TRDAKGLSQEQLNEFRASFNH
FDRKRNGMMEPDDFRACLISMGYDLGEVEFARIMTMVDPNAAGVVTFFQAFIDFMTRETAETDTAEQVVAS
FKILAGDKNYITPEELRRELPAEQAEYCIRRMAPPYKGGSGAPSGALDYVAFSSALYGESDL
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

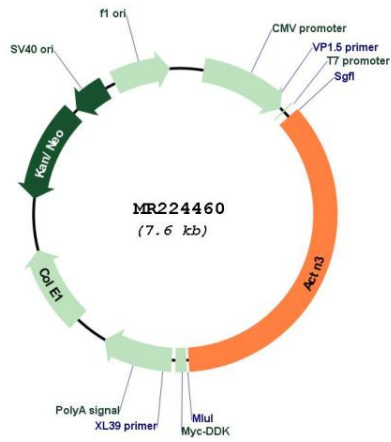
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_013456
<b>ORF Size:</b>	2703 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_013456.2</a> , <a href="#">NP_038484.1</a>
<b>RefSeq Size:</b>	2887 bp
<b>RefSeq ORF:</b>	2703 bp
<b>Locus ID:</b>	11474
<b>UniProt ID:</b>	<a href="#">O88990</a>
<b>Cytogenetics:</b>	19 4.12 cM
<b>MW:</b>	103 kDa
<b>Gene Summary:</b>	This gene encodes a member of the alpha-actin binding protein gene family. The encoded protein is primarily expressed in skeletal muscle and functions as a structural component of sarcomeric Z line. This protein is involved in crosslinking actin containing thin filaments. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR224460