

Product datasheet for **MG224460**

Actn3 (NM_013456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actn3 (NM_013456) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Actn3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224460 representing NM_013456
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGATGGTTATGCAGCCCGAGGGTCTGGGGCCGGGAGGGGCCCTTCTCTGGCGGTGGGGCGGCCG
 AGTACATGGAACAGGAGGAGACTGGGACCGCACTTGTCTGGACCCGGCCTGGGAGAAAACAGCAGCG
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 CGTGGCTTCTCTAGTGCCTCTATGGAGAGAGTGACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224460 representing NM_013456
Red=Cloning site Green=Tags(s)

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MMVMQPEGLGAGEGPFSGGGGGEYMEQEEDWDRDLLDPAWEKQQRKFTAWCNSHLRKAGTQIENIEE  
DFRNLKLMLEVISGERLPRDPKGMRFHKIANVNKALDFIASKGVKLVSIGAEIIVDGNLKMTLGMI  
WTIILRFQIDISVEETSAKEGLLLWCQRKTAPYRNVNVQNFHTSWKDGLALCALIHRHRPDLIDYAKLR  
KDDPIGNLNTAFEVAEKYLDIPKMLDAEDIVNTPKPKDEKAIMTYVSCFYHAFAGAEQAETAANRICKVLA  
VNQENEKLMEEYEKLAELLEWIRRTVPWLENRVGEPMSAMQRKLEDFRDYRRLHKPPRVQEKQLEIN  
FNTLQTKLRLSHRPAFMPSEGKLVSDIANAWRGLEQVEKGYEDWLLSEIRRLQRLQHLAEKFQQKASLHE  
AWTRGKEEMLNQHDIYESASLQEVRRALLRRHEAFESDLAAHQDRVEHIAALAQELNELDYHEAASVNSRCQ  
AICDQWNLGTLTQKRRDALERMEKLETTIDQLQLEFARRAAPFNWLDGAIEDLQDVWL VHSVEETQSL  
LTAHEQFKATLPEADRERGAILEGIQKICQTYGLRPKSGNPYITLSSQDINNKWDTVRKLVPSRDQT  
LQEELARQQVNERLRRQFAAQANAIGPWIQGVVEVGRLAAGLAGSLEEQ MAGLRQQEQNIINYKSNIDR  
LEGDHQLLQESLVFDNKHTVYSMEHIRVGEQLLTSIARTINEVENQVL TRDAKGLSQEQLNEFRASFNH  
FDRKRNGMPEDDFRACLISMGYDLGEVEFARIMTMVDPNAAGVVTFQAFIDFMTRETAETDTAEQVVAS  
FKILAGDKNYITPEELRRELPAEQAEYCIRRMAYKGGSGAPSGALDYVAFSSALYGESDL
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

ACCN:	NM_013456
ORF Size:	2700 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:	<ol style="list-style-type: none">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_013456.2 , NP_038484.1
RefSeq Size:	2887 bp
RefSeq ORF:	2703 bp
Locus ID:	11474
UniProt ID:	O88990
Cytogenetics:	19 4.12 cM
Gene Summary:	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]