

Product datasheet for MR225133

Actb (NM_007393) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actb (NM_007393) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actb
Synonyms:	Act; Actx; beta-a; beta-actin; E430023M04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225133 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGACGATATCGTGCCTGGTTCGTCGACAACGGCTCCGGCATGTGCAAAGCCGGCTTCGGGGCG
ACGATGCTCCCCGGGCTGTATCCCTCCATCGTGGGCCGCCCTAGGCACCAGGGTGTGATGGTGGGAAT
GGGTGAGAAGGACTCCTATGTGGGTGACGAGGCCAGAGCAAGAGAGGTATCCTGACCCTGAAGTACCCC
ATTGAACATGGCATTGTTACCACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACAATGAGC
TGGTGTGGCCCTGAGGAGCACCTGTGCTGCTCACCAGGCCCCCTGAACCTAAGCCAACCGTGA
AAAGATGACCCAGATCATGTTTGAGACCTCAACACCCCAAGCATGTACGTAGCCATCCAGGCTGTGCTG
TCCTGTATGCCTCTGGTTCGACACAGGCATTGTGATGGACTCCGGAGACGGGGTACCCACACTGTGC
CCATCTACGAGGGCTATGCTCTCCCTCACGCCATCCTGCGTCTGGACCTGGCTGGCCGGGACCTGACAGA
CTACCTCATGAAGATCCTGACCGAGCGTGGCTACAGCTTACCACCACAGCTGAGAGGAAATCGTGCCT
GACATCAAAGAGAAGCTGTGCTATGTTGCTCTAGACTTCGAGCAGGAGATGGCCACTGCCGATCCTCTT
CCTCCCTGGAGAAGAGCTATGAGCTGCCTGACGGCCAGGTCACTACTTGGCAACGAGCGGTTCCGATG
CCCTGAGGCTCTTTCCAGCCTCCTTCTGGGTATGGAATCCTGTGGCATCCATGAAACTACATTCAAT
TCCATCATGAAGTGTGACGTTGACATCCGTAAGACCTCTAGCAACACAGTGTGTCTGGTGGTACCA
CCATGTACCCAGGATTGCTGACAGGATGCAGAAGGAGATTACTGCTCTGGCTCCTAGCACCATGAAGAT
CAAGATCATTGCTCCTCTGAGCGCAAGTACTCTGTGTGGATCGTGGCTCCATCCTGGCCTCACTGTCC
ACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTACGATGAGTCCGGCCCTCCATCGTGCACCGCAAGT
GCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225133 protein sequence
 Red=Cloning site Green=Tags(s)

MDDDIAALVVDNNGSMCKAGFAGDDAPRAVFPISIVGRPRHQGMVMGMQKDSYVGDQAQSKRGILTLKYP
 IEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVL
 SLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLDYLMKILTERGYSFTTAAEREIVR
 DIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPALFQPSFLGMESCGIHETTFN
 SIMKCDVDIRKDLANTVLSGGTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLS
 TFQQMWISKQEYDESGPSIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007393

ORF Size: 1128 bp

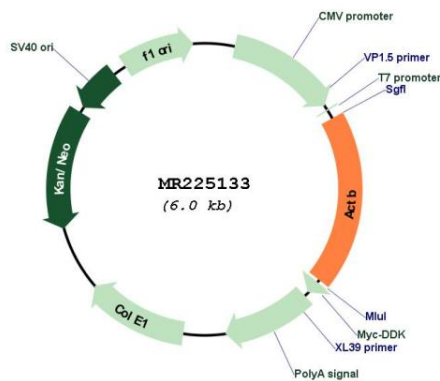
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_007393.5</u>
RefSeq Size:	1889 bp
RefSeq ORF:	1128 bp
Locus ID:	11461
UniProt ID:	<u>P60710</u>
Cytogenetics:	5 81.8 cM
MW:	41.7 kDa
Gene Summary:	<p>This gene encodes a member of the actin family of proteins. Actins are highly conserved proteins that are among the most abundant proteins in eukaryotic cells and are involved in cell motility, structure, and integrity. Localization, stability, and translation of the transcribed mRNA are regulated through the binding of multiple factors to its 3' UTR sequence. Homozygous knockout mice for this gene exhibit embryonic lethality. Numerous pseudogenes of this gene have been identified in the mouse genome. [provided by RefSeq, Sep 2015]</p>

Product images:



Circular map for MR225133