

Product datasheet for MR205832

Actg1 (NM_009609) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actg1 (NM_009609) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actg1
Synonyms:	Ac; Actg; Actl; AL023024; E51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205832 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAAGAAATCGCCGCACTCGTCATTGACAATGGCTCCGGCATGTGCAAAGCCGGCTTTGCTGGCG
ACGACGCCCCAGGGCCGTGTTCCCTTCCATCGTAGGGCGCCCCGACACCAGGGCGTCATGGTGGGCAT
GGGCCAGAAAGACTCATACTGGGTGACGAGGCCAGAGCAAGAGGGGTATCCTGACCCTGAAGTACCT
ATCGAACACGGCATTGTCACTAACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACAATGAGC
TGGTGTGGCTCCTGAGGAGCACCCGGTCTTCTGACCGAGGCCCCCTGAACCCCAAAGCTAACAGAGA
GAAGATGACGCAGATAATGTTTGAACCTTCAATACCCAGCCATGTACGTGGCCATTACGGCGGTGCTG
TCCTTGTATGCATCTGGGCGCACCCTGGCATTGTCTGACTCTGGTGACGGGGTACACACACAGTGC
CCATCTATGAGGGCTACGCCCTTCCCCACGCCATCTTGGCTCTGGACCTGGCTGGCCGGGACCTGACAGA
CTACCTCATGAAGATCCTGACTGAACGGGGCTACAGCTTACCACCCTGCTGAGAGGAAAATTGTTCTG
GACATAAAGGAGAAGCTGTGCTATGTTGCCCTGGATTTGAGCAAGAAATGGCTACTGCTGCATCATCTT
CCTCCTGGAGAAGGTTACGAGCTGCCGACGGGCAGGTGATCACCATTGGCAATGAGCGGTTCCGGTG
TCCGGAGGCACTTCCAGCCTTCTTCTGGCATGGAGTCTGTGGTATCCATGAGACCACTTCAAC
TCCATCATGAAGTGTGATGTGGATATCCGCAAAGACCTGTATGCCAATACAGTGTCTGGTGGTACCA
CCATGTACCCAGGCATTGCTGACAGGATGCAGAAGGAGATCACAGCCCTAGCACCTAGCAGATGAAGAT
TAAGATCATTGCTCCCCCTGAGCGCAAGTACTCAGTCTGGATCGGTGGCTCCATTCTGGCCTCACTGTCC
ACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGATGAGTACGGCCCTCCATCGTCCACCGCAAAT
GCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205832 protein sequence
 Red=Cloning site Green=Tags(s)

MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPISIVGRPRHQGMVMGMQKDSYVGDEAQSQRGILTLKYP
 IEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVL
 SLYASGRRTTGIVMDSGDGVHTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTAREIVR
 DIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPALFQPSFLGMESCGIHETTFN
 SIMKCDVDIRKDLAYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLS
 TFQMWISKQEYDESGPSIVHRKCF

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_009609

ORF Size: 1128 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_009609.3](#), [NP_033739.1](#)

RefSeq Size: 1931 bp

RefSeq ORF: 1128 bp

Locus ID: 11465

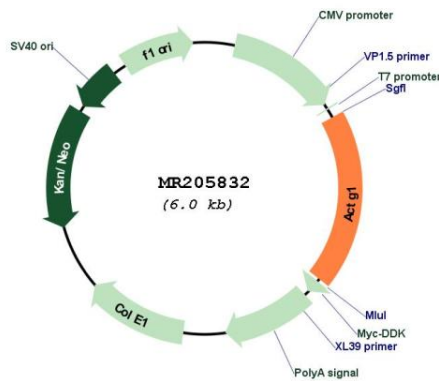
UniProt ID: [P63260](#)

Cytogenetics: 11 E2

MW: 41.8 kDa

Gene Summary: Actins are highly conserved proteins that are involved in various types of cell motility and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta, and gamma, have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. Actin, gamma 1, encoded by this gene, is a cytoplasmic actin found in non-muscle cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR205832