

Product datasheet for MC204777

Acta2 (NM_007392) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acta2 (NM_007392) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acta2
Synonyms:	0610041G09Rik; a-; a-SMA; Ac; Actvs; al; alphaSMA; SM; SMAalpha; SMalphaA
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC064800 GAGTGGAGAAGCCCAGCCAGTCGCTGTCTCAGGAACCTGAGACGCTGCTCCAGCTATGTGTGAAGAGGAAG ACAGCACAGCCCTGGTGTGCGACAATGGTTCTGGGCTCTGTAAGGCCGGCTTCGCTGGTATGATGCTCC CAGGGCTGTTTTCCCATCCATCGTGGGACGTCCCAGACATCAGGGAGTAATGGTTGGAATGGCCAAAAA GACAGCTATGTGGGGATGAAGCCAGAGCAAGAGAGGGATCCTGACGCTGAAGTATCCGATAGAACACG GCATCATCACTGGGACGACATGGAAAAGATCTGGCACCCTCTTTCTATAACGAGCTTCGTGTGGC CCCTGAAGAGCATCCGACACTGCTGACAGAGGCCACTGAACCTAAGGCCAACCGGGAGAAAATGACC CAGATTATGTTTGGACCTTCAATGTCCCCGCATGTATGTGGCTATTGAGGCTGTGCTGCTCCCTATG CCTCTGGACGTACAAGTATTGTGCTGGACTCTGGAGATGGTGTGACTCACAACGTGCCTATCTATGA GGGCTATGCCCTGCCTCATGCCATCATGCGTCTGGACTTGGCTGGCCGAGATCTCACCGACTACCTCATG AAGATCCTGACTGAGCGTGGCTATTCCTTCGTGACTACTGCCGAGCGTGAGATTGTCGGTGACATCAAGG AGAAGCTGTGCTATGTAGCTCTGGACTTTGAAAATGAGATGGCCACGGCCGCTCCTCTTCCCTGGA GAAGAGCTACGAAGTGCCTGACGGGCAGGTGATACCATTGAAAACGAACGCTTCCGCTGCCAGAGACT CTTTCCAGCCATCTTTTATTGGGATGGAGTACGCGGGCATCCACGAAACCACCTATAACAGCATCATGA AGTGTGATATTGACATCAGGAAGGATCTCTATGCTAACAACGCTCTGTCAGGGGGTACCACCATGTACCC AGGCATTGCTGACAGGATGCAGAAGGAGATCACAGCCCTCGCACCAGCACCATGAAGATCAAGATCATT GCCCTCCAGAACGCAAGTACTCTGTCTGGATCGGTGGCTCCATCCTGGCTTCGCTGTCTACCTCCAGC AGATGTGGATCAGCAAACAGGAATACGACGAAGCTGGGCCCTCCATCGTCCACCACCAATGCTTCTAAGT CCCCCTGCTCTGCCTTAGCACACAAGTGTGAACGTTTTGTGGATCAGCGCCTCCAGTTCTTTCCAAA TCATTCTGCCCAAAGCTTTGATTTGTTACTCGTGGTTTTTTTAAAAATAAATCAGACATGTGCTACCCT TAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_007392
Insert Size:	1134 bp



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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](#)

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: [BC064800](#), [AAH64800](#)

RefSeq Size: 1354 bp

RefSeq ORF: 1134 bp

Locus ID: 11475

UniProt ID: [P62737](#)

Cytogenetics: 19 C1

Gene Summary: The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in smooth muscle. [provided by RefSeq, Feb 2021]