

Product datasheet for **MR205841**

Actg2 (NM_009610) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actg2 (NM_009610) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actg2
Synonyms:	Act-4; Act4; ACTA3; SMGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205841 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGAAGAAGAGACCACCGCCTTGTGTGTGACAATGGCTCTGGCCTGTGCAAGGCAGGCTTTGCAG
GAGATGATGCCCCAGGGCTGTCTTCCCCTCCATTGTGGGCCGCCCTAGACATCAGGGTGTGATGGTGGG
AATGGGCCAGAAAGACAGCTATGTGGGGACGAGGCTCAGAGCAAGCGTGGGATCCTAACTCTCAAGTAC
CCTATTGAACATGGCATCATACCAACTGGGATGACATGGAGAAGATCTGGCACCCTCTTCTACAATG
AGCTTCGAGTAGCACCAGAAGAGCACCCACCCTGCTCACAGAGGCCCCCTAAACCCAAAGCAAACAG
GGAGAAGATGACCCAGATCATGTTGAAACCTTCAATGTCCCTGCCATGTATGTTGCTATTCAGGCTGTG
CTCTCACTCTATGCATCCGGCCGTACCACAGGCATCGTCTGGATTGGGGGATGGCGTACCCACAATG
TCCCCATCTATGAGGGCTATGCACTGCCCATGCCATCATGCGTCTTGACCTGGCTGGACGGGATCTCAC
AGACTACCTCATGAAGATTCTCACAGAAAGAGGCTATTCCTTTGTGACCACAGCTGAGAGAGAAATTGTA
CGAGACATCAAGGAGAAGCTGTGCTATGTAGCCCTGGATTCGAGAATGAGATGGCCACAGCAGCTTCAT
CTTCTTCCCTGGAGAAAAGCTACGAGTTGCCTGATGGGCAGGTCACTACTTGGCAACGAAACGCTTCCG
CTGCCCCGAGACCCTCTCCAGCCTTCTTCATTGGCATGGAGTCAGCTGGAATTCATGAAACAACATAC
AATTCATCATGAAGTGTGACATTGACATCCGCAAGATTTGTATGCTAACAAATGCTCTCTGGGGGCA
CTACCATGTACCTGGCATTGCTGACAGGATGCAGAAGGAAATCACAGCCTTGGCTCCCAGCACCATGAA
GATCAAGATTATCGCTCCTCCTGAGCGGAAGTACTCAGTCTGGATTGGCGCTCCATCCTGGCCTCTCTC
TCCACCTTCCAGCAAATGTGGATCAGCAAGCCAGAGTATGATGAGGCAGGGCCCTCCATTGTCCACAGGA
AATGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205841 protein sequence
 Red=Cloning site Green=Tags(s)

MCEEETTALVCDNGSGLCKAGFAGDDAPRAVFPISIVGRPRHQVMVGMGQKDSYVGDEAQS~~SRGILTLKY~~
 PIEHGII~~TN~~WDDMEKI~~WHHSFY~~NELRVAP~~EEHPTLL~~TEAPLNPKANREKMTQIMFETFNVPAMYVAIQAV
 LSLYASGR~~TGIVL~~DSGDGVTHNVPIYEGYALPHAIMRLDL~~AGRDLTDYLMKIL~~TERGYSFVTTAEREIV
 RDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETL~~FQPSFIGMESAGIHETTY~~
 NSIMKCDIDIRKDL~~YANNVL~~SGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASL
 STFQQMWISKPEYDEAGPSIVHRKCF

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_009610

ORF Size: 1131 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_009610.2](#), [NP_033740.2](#)

RefSeq Size: 1341 bp

RefSeq ORF: 1131 bp

Locus ID: 11468

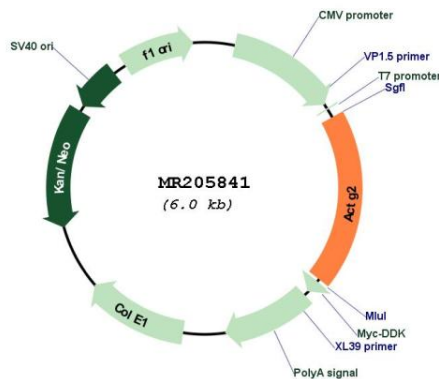
UniProt ID: [P63268](#)

Cytogenetics: 6 35.94 cM

MW: 41.9 kDa

Gene Summary: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205841