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Product datasheet for MR205859

Acta1 (NM_009606) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acta1 (NM_009606) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acta1
Synonyms:	AA959943; Acta-2; Acts; Actsk-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205859 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGCGACGAAGACGAGACCACCGCTCTTGTGTGTGACAACGGCTCTGGCCTGGTGAAAGCTGGCTTTG CCGGGGATGATGCCCCCAGGGCTGTGTTCCCATCCATCGTGGGCCGACCCCGTCACCAGGGTGTCATGGT AGGTATGGGTCAGAAGGACTCCTACGTGGGTGATGAGGCCCAGAGCAAGCGAGGTATCCTGACCCTGAAG TACCCCATTGAACATGGCATCATCACCAACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACA ATGAGCTGCGTGTGGCCCCTGAGGAGCACCCGACTCTGCTCACCGAGGCCCCCCTGAACCCCAAAGCTAA CCGGGAGAAGATGACTCAAATCATGTTTGAGACCTTCAACGTGCCTGCCATGTATGTGGCTATCCAGGCG GTGCTGTCCCTCTATGCCTCCGGCCGTACCACCGGCATCGTGTTGGATTCTGGGGACGGTGTCACCCACA ACGTGCCCATCTATGAGGGCTATGCCCTGCCACACGCCATCATGCGTCTGGACCTGGCCGGTCGCGACCT CACTGACTACCTGATGAAAATCCTCACTGAGCGTGGCTATTCCTTCGTGACCACAGCTGAACGTGAGATT GTGCGCGACATCAAAGAGAAGCTGTGCTATGTGGCCCTGGACTTCGAGAATGAGATGGCCACCGCTGCCT CTTCCTCCTCCCTGGAGAAGAGCTATGAGCTGCCTGACGGGCAGGTCATCACCATCGGCAATGAGCGTTT CCGTTGCCCGGAGACGCTCTTCCAGCCTTCCTTTATCGGTATGGAGTCTGCGGGGATCCATGAGACCACC TACAACAGCATCATGAAGTGCGACATCGACATCAGGAAGGACCTGTACGCCAACAACGTCATGTCAGGGG GCACCACCATGTACCCTGGTATCGCTGACCGCATGCAGAAGGAGATCACAGCTCTGGCTCCCAGCACCAT GAAGATCAAGATCATCGCCCCCCCTGAGCGCAAGTACTCAGTGTGGATCGGTGGCTCCATCCTGGCCTCG CTGTCCACCTTCCAGCAGATGTGGATCACCAAGCAGGAGTACGACGAGGCTGGCCCCTCCATTGTGCACC GCAAATGCTTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

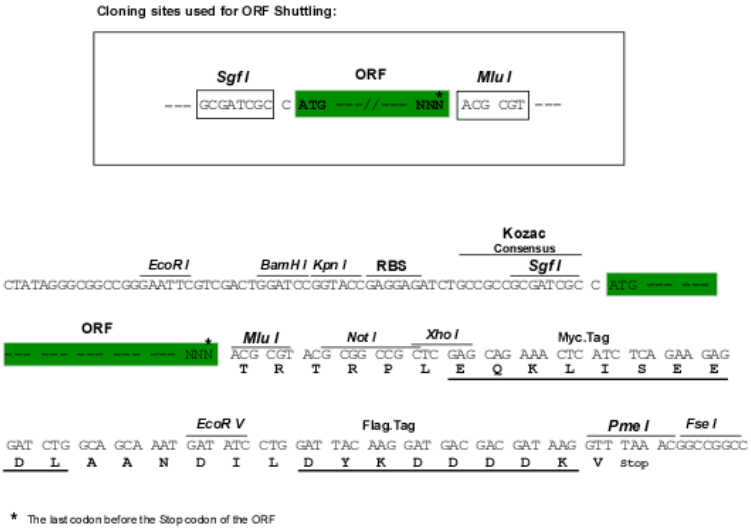
>MR205859 protein sequence
Red=Cloning site Green=Tags(s)

MCDEDETTALVCDNGSGLVKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLK
YPIEHGIITNWDDMEKIWHHTFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQA
VLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI
VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT
YNSIMKCDIDIRKDLYANNVMSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS
LSTFQQMWITKQEYDEAGPSIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009606

ORF Size: 1134 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_009606.1

RefSeq Size: 1481 bp

RefSeq ORF: 1134 bp

Locus ID: 11459

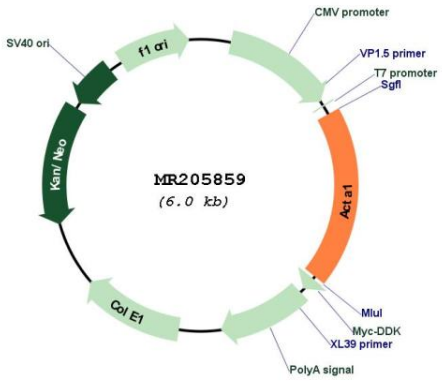
UniProt ID: P68134

Cytogenetics: 8 72.26 cM

MW: 42.1 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 MR205859