

Product datasheet for MR205853

Actr1a (NM_016860) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actr1a (NM_016860) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actr1a
Synonyms:	alpha-Arp1; Arp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205853 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGTCCTACGATGTGATCGCCAACAGCCTGTTGTGATCGACAACGGATCCGGTGTGATTAAGCTG
GCTTTGCTGGTGATCAGATCCCCAAATACTGCTTTCCAAACTATGTGGGCAGACCCAAACATGTTCTGTG
CATGGCAGGAGCCCTGGAAGGTGACATCTTCATTGGCCCCAAAGCGGAGGAGCACCAGGGGCTGCTGTCA
ATCCGTTACCCCATGGAACATGGCATCGTCAAGGACTGGAACGACATGGAACGCATCTGGCAATACGTCT
ACTCTAAGGACCAGCTGCAGACTTCTCAGAGGAGCATCTGTGCTCCTAACGGAGGCACCTTTAAACCC
TCGAAAAAACCGGAGCGAGCTGCAGAAGTCTTCTCGAGACCTCAATGTGCCGGCCCTTTCATCTCC
ATGCAAGCCGTGCTGAGCCTTTATGCCACGGGCAGAACCACAGGCGTGGTGTGGATTCTGGGGATGGTG
TCACCCATGCAGTCCCGATTTATGAAGGCTTCGCCATGCCTCACTCCATCATGCGCATCGACATCGCTGG
CCGGGATGTCTCGCGCTTCTCCGCCTCTACCTACGGAAGGAGGGCTATGATTTCCACTCCTCTCTGAG
TTTGAGATTGTCAAGGCCATAAAGGAAAGAGCTTGCTACCTGTCCATAAACCCCCAGAAGGATGAGACAC
TGGAGACAGAGAAGGCTCAGTACTACCTGCCGATGGCAGCACCATTGAGATTGGCCCTTCCCGGTTCCG
GGCCCCGAGCTGCTGTTTCAGGCCGACTTGATTGGCGAGGAGAGTGAAGGCATCCAGAGGTGCTGGTG
TTTGCTATCCAGAAGTCAGACATGGATTTACGGCGTACACTGTTTTCTAACATTGTCCTCAGGAGGTT
CTACCCTGTTCAAAGGTTTTGGAGACAGGCTACTGAGTGAAGTGAAGAACTAGCTCCAAAAGACGTGAA
GATCAGGATATCTGCACCCAGGAGAGACTGTATTCCACATGGATTGGAGGTTCTATCCTTGCTTCCTG
GACACCTTTAAGAAGATGTGGTCTCTAAGAAAGAATATGAAGAAGACGGTGCCCGATCCATCCACAGGA
AAACCTTC

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205853 protein sequence
 Red=Cloning site Green=Tags(s)

MESYDVIANQPVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEHRGLLS
 IRYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEEHPVLLTEAPLNPRKNRERAAEVFFETFNVPALFIS
 MQAVLSLYATGRITGVVLDSDGDVTHAVPIYEGFAMPHSIMRIDIAGRDRVSRFLRLYLKREGYDFHSSSE
 FEIVKAIKERACYLSINPQKDETELEKAQYYLPDGSTIEIGPSRFRAPPELLFRPDLIGEESGIHEVLV
 FAIQKSDMDLRRTLFSNIVLGGSTLFKGFGRLLSEVKKLAPKDYKIRISAPQERLYSTWIGGSILASL
 DTFKMMVYSKKEYEEDGARSIHRTKTF

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_016860

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_016860.1](#), [NP_058556.1](#)

RefSeq Size: 2742 bp

RefSeq ORF: 1131 bp

Locus ID: 54130

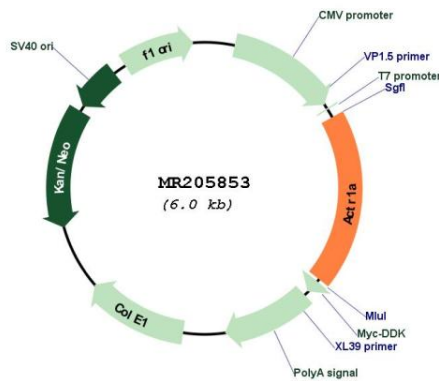
UniProt ID: [P61164](#)

Cytogenetics: 19 C3

MW: 42.6 kDa

Gene Summary: Component of a multi-subunit complex involved in microtubule based vesicle motility. It is associated with the centrosome.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205853