

Product datasheet for SC116595

ACTR1A (NM_005736) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTR1A (NM_005736) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACTR1A
Synonyms:	ARP1; Arp1A; CTRN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116595 sequence for NM_005736 edited (data generated by NextGen Sequencing)

```

ATGGAGTCTACGATGTGATCGCCAACCCAGCCTGTCGTGATCGACAACGGATCCGGTGTG
ATTAAAGCTGGTTTTGCTGGTGATCAGATCCCCAAATACTGCTTTCCAAACTATGTGGGC
CGACCCAAGCAGCTTCGTGTCATGGCAGGAGCCCTTGAAGGCGACATCTTCATTGGCCCC
AAAGCTGAGGAGCACCAGGGGCTGCTTTCAATCCGCTATCCCATGGAGCATGGCATCGTC
AAGGATTGGAACGACATGGAACGCATTTGGCAATATGTCTATTCTAAGGACCAGCTGCAG
ACTTTCTCAGAGGAGCATCCTGTGCTCCTGACTGAGGCGCCTTTAAACCCACGAAAAAC
CGGGAACGAGCTGCCAAGTTTTCTTCGAGACCTTCAATGTGCCCGCTCTTTTCATCTCC
ATGCAAGCTGTACTCAGCCTTTACGCTACAGGCAGGACCACAGGGGTGGTGTGGATTCT
GGGGATGGAGTACCCATGCTGTGCCCATCTATGAGGGCTTTGCCATGCCCACTCCATC
ATGCGCATCGACATCGCGGGCCGGGACGTCTCTCGCTTCCCTGCGCTCTACCTGCGTAAG
GAGGGCTACGACTTCCAATCATCTCTGAGTTTGAGATTGTCAAGGCCATAAAAGAAAGA
GCCTGTTACCTATCCATAAACCCCAAAAAGGATGAGACGCTAGAGACAGAGAAAGCTCAG
TACTACCTGCCTGATGGCAGCACCATTGAGATTGGTCCTTCCCGATTCCGGGCCCTGAG
TTGCTCTTCAGGCCAGATTTGATTGGAGAGGAGAGTGAAGGCATCCACGAGGTCCTGGTG
TTCGCCATTGAGAAAGTCAAGATGACATGGACCTGCGGCGCACGCTTTTCTAACATTGCCTC
TCAGGAGGCTCTACCCTGTTCAAAGTTTTGGTGACAGGCTCCTGAGTGAAGTGAAGAAA
CTAGCTCCAAAAGATGTGAAGATCAGGATATCTGCACCTCAGGAGAGACTGTATTCCACG
TGGATTGGGGCTCCATCCTTGCCTCCCTGGACACCTTTAAGAAGATGTGGGTCTCCAAA
AAGGAATATGAGGAAGACGGTGCCCGATCCATCCACAGAAAAACCTTCTAA

```

Clone variation with respect to NM_005736.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005736 unedited
 NGTTCACATTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGGGCGGACCC
 GGCTGGGCAGTTCCTTCCCCANAAGGAGAGATTCTCTGCCATGGAGTCTACGATGTGA
 TCGCCAACCAGCCTGTCTGTATCGACAACGGATCCGGTGTGATTAAGCTGGTTTTGCTG
 GTGATCAGATCCCCAAACTACTGCTTTCCAACTATGTGGGCCGACCCAAGCACGTTCTGT
 TCATGGCAGGAGCCCTTGAAGGCGACATCTTATTGGCCCCAAAGCTGAGGAGCACCGAG
 GGCTGCTTTCAATCCGCTATCCCATGGAGCATGGCATCGTCAAGGATTGGAACGACATGG
 AACGCATTTGGCAATATGTCTATTCTAAGGACCAGCTGCAGACTTCTCAGAGGAGCATC
 CTGTGCTCCTGACTGAGGCGCCTTTAAACCCACGAAAAACCGGGAACGAGCTGCCGAAG
 TTTTCTTCGAGACCTTCAATGTGCCGCTTTTTCATCTCCATGCAAGCTGTACTIONAGCC
 TTTACGCTACAGGCAGGACCACAGGGTGGTGTGGATTCTGGGATGGAGTACCCATG
 CTGTGCCATCTATGAGGGCTTTGCCATGCCCACTCCATCATGCGCATCGACATCGCGG
 GCCGGGACGTCTCTGCTTCTGCGCTCTACCTGCGTAAGGAGGGCTACGACTTCCACT
 CATCCTCTGAGTTTGTGATTGTCAAGGCCATAAAGAAAGAGCCTGTTACCTATCCATAA
 ACCCCCAAGGATGAGACGCTAGAGACAGAGAAAGCTCAGTACTACCTGCCTNGATGCGAG
 CACCATTGAGATTGGTCCTTTCCGATTNCGGNNCCCTGAGNTGCTCTTACGCCAGATTT
 GATTGGAGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005736 unedited
 TGGACCGCGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTGGAGTTTAAAGGGGAGTAACTTCAAAAAAGGGGAAAATGATG
 TCCCCACCTTAAAGGGTTTTTGGGGATGGATCGGGCACC GGCTTCTCATATTCCTTT
 TTGAAACCCACATTTTTTAAAGGGTCCAGGGAGGCAAGGGTGGAGCCCCCAATCCAC
 GGGGAATACAATCTCTCCTGAGGGCAAATATCCTGATCTTACATTTTTTGGAGCTAGT
 TTCTTCACTTCACTCAAGAGCCTGTACCAAAACCTTTGAACAGGGTAAAACCTCCTGAA
 AGGACAATGTTAAAAAAAACGTGCGCCCCAAGGCCCTGTCTGACTTCTGAATGGGGAAC
 ACCAAGACCCCGGGATGCCTTCACTCTCCTTTCCAAACAAATTTGGCCTGAAAAACAAC
 TCAGGGGCCCCGAATCGGGAAGGACCAATCTCAATGGGGCTGCCATCAGGCAGGGAGTAC
 TGAGCTTCTCTGTCTTAACGTCTCATCTTTGGGGTTTTATGGATAGGTAACAAGCT
 CTTTCTTTTATGGCCTTGACAATCTCAAACCTCAAAGGATGAGTGGAAATCGTACCCTCC
 TTACCCAGGTAGAGGCGCAAGAAAACGAGAGACCTCCCCGGCCCCGAATGTCAATGCCCA
 TGATGGAATGGGGCATGGCAAAACCCCTCATAGAGGGGCCAGATTGGGTGACTTCCAT
 CCCANAATCCACAACCACCCCTGGGGCCCTCCCTGTACCGAAAAGGCTGATTCCAACTT
 TCCTTGAAAATGAAAAGACGGCCATCTGAAGGTTCAAAAAACTTCGCACGCTCGTCC
 CGCGTTTTTTCGGGGTTAAAGGGCCCTCATCCAGGACCA

Restriction Sites:

NotI-NotI

ACCN:

NM_005736

Insert Size:

1300 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_005736.2](#), [NP_005727.1](#)

RefSeq Size: 2828 bp

RefSeq ORF: 1131 bp

Locus ID: 10121

UniProt ID: [P61163](#)

Cytogenetics: 10q24.32

Domains: ACTIN

Gene Summary: This gene encodes a 42.6 kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 8-13 copies per dynactin molecule, and is the most abundant molecule in the dynactin complex. It is an actin-related protein, and is approximately 60% identical at the amino acid level to conventional actin. [provided by RefSeq, Jul 2008]