

## Product datasheet for **SC320643**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for NM\_005736.2

```

CCCCGGCTGGGCAGTTCCTTCCCCAGAAGGAGAGATTCTCTGCCATGGAGTCTACGATG
TGATCGCCAACCAAGCCTGTCTGATCGACAACGGATCCGGTGTGATTAAGCTGGTTTTG
CTGGTGATCAGATCCCCAAATACTGCTTTCAAACATATGTGGCCGACCCAAGCAGTTC
GTGTCAATGGCAGGAGCCCTTGAAGGCGACATCTTCATTGGCCCCAAAGCTGAGGAGCACC
GAGGGCTGCTTTCAATCCGCTATCCCATGGAGCATGGCATCGTCAAGGATTGGAACGACA
TGGAACGCATTTGGCAATATGTCTATTCTAAGGACCAGCTGCAGACTTTCTCAGAGGAGC
ATCCTGTCTCCTGACTGAGGCGCCTTTAAACCCACGAAAAAACGGGAACGAGCTGCCG
AAGTTTTCTTCGAGACCTTCAATGTGCCGCTCTTTTCATCTCCATGCAAGCTGTACTCA
GCCTTTACGCTACAGGCAGGACCACAGGGTGGTGTGGATTCTGGGGATGGAGTCAACC
ATGCTGTGCCATCTATGAGGGCTTTGCCATGCCCACTCCATCATGCGCATCGACATCG
CGGGCCGGGACGCTCTCGCTTCTCGCCTCTACCTGCGTAAGGAGGGCTACGACTTCC
ACTCATCTCTGAGTTTGAGATTGTCAAGGCCATAAAAGAAAGAGCCTGTACCTATCCA
TAAACCCCAAAAGGATGAGACGCTAGAGACAGAGAAAGCTCAGTACTACCTGCCTGATG
GCAGCACCATTGAGATTGGTCTTCCCGATTCCGGGCCCTGAGTTGCTTTCAGGCCAG
ATTTGATTGGAGAGGAGAGTGAAGGCATCCACGAGGTCCTGGTGTTCGCCATTAGAAAGT
CAGACATGGACCTGCGGCGCACGCTTTTCTAACATTGTCTCTCAGGAGGCTCTACCC
TGTTCAAAGGTTTTGGTGACAGGCTCCTGAGTGAAGTGAAGAACTAGCTCCAAAAGATG
TGAAGATCAGGATATCTGCACCTCAGGAGAGACTGTATTCCACGTGGATTGGGGCTCCA
TCCTTGCTCCCTGGACACCTTTAAGAAGATGTGGGTCTCAAAAAGGAATATGAGGAAG
ACGGTGCCCGATCCATCCACAGAAAACTTCTAATGTGGGACATCATCTTACCTCTC
TCTGAAGTTAACTCCACTTTAAACTCGCTTTCTTGAGTCGGAGTGTTCGAGGAACTG
CCTGTGTGTGAGTGTGTGGATATGAGTGTGTGCGCACATGCGAGTGCCTGTGGCC
CTGGGACCTGGGCCAGAAAGGACGATGAACTACCCGACGTGGTGTGAGTGGCCTGAGGCC
GGGTTGACCACTAACTGGCTCCTGACAGGGAAGAGCGCTGGCAGAGGCTGTGCTCCCTC
CTCAGGTGGCCTCTGGCTGGCTGTGGGGACTCCGTTTACTACCACAGGGAGACAGAGGG
AGGTAAGCCATCCCCGGGAGACCTTGCTGCTGACCATCTAGGCTGGGCTGGCCCCACC
CTACCCCCACCCAGGGTGCCTGAGGCCACAGCAGCTGCTGCCTCCACTATCGATG
CCTCTGACTGCACACTGAGGACTGGGACTGGGTTGAGTTCTGTCTGGTTTTGTGCCA
TTTTGGTTTTGGTAGGCTGAAAAGCACCCCAAGAGCTATTACAGAGACTGGAGTCAAGG
AGAGCAGGAGGCCCTCATGTTACCAGGGAACAGGACCACCCGGCCACTGAAGGAGGGC
AGGAGCAGTCTCCCTCTGAATGGCTGCAGAGTTAATGTTCCAGCCAGTCCCTTTTCG
GGGCCTTGGGAGAGTTAAGGCACCTGCTGGTCCAGGACCTCGCTTTCATCTGTTCT
TGTTGCAATGCCATCTTCAAACCGTTTTATTATTGAAGTGTGTTGTTAGTTAGGGGCTG
GAGAGAGGGAGCTTGCTGCCTCTGCCTTGCTACACTAATGTTTACAGCACCTAAGCTTA
GCCTCCAGGGCCCCACCTCTCCAGCTGATGGTGTGAGTGTGACAGTGTCCACAGGTTCCAGG
ACCATTTGAGATTGGAAGCTACACTCAAAGACTCCACCCAGGCTCTTTCTCCCTTTTC
CTCTTGCTCACTGCCCTGGAATCAACAGGCTGGTTGCTGGTTAGATTTTCTGAAACAGGA
GGTAAAAATTTTTCTTTGGCAGAGGCCCTAAGCAAGGGAGGGGTGTTGGAGAGCCAGTGC
CCTTAAGACTGGAGAAAGCTGCAATTTACCAAGTTGCCTTTTGCCACTGTAGCTGACCAG
GGGACTAGGTTGTAGAGTGGGAAGGCCCTCTGGGCTGATCTTGTGCCATTCTTGACC
TTGGACCTGCTTGGTTAAGGAGGGAGTGGGCCAGACCAGAGTGCAGGAGCTAATGGAGC
CAGGCCTGACTCTAGGAGTGGTCCAAAGGCCTTACGCTAGATGGTGCAAAGCTGGGGC
CAGCCTGTCTTACCCGGCACCTCACCTGTGACACCAAGACCCACCCCAATCCCAGACTT
CACACAGTATTCTCCCCACGCCGCTATGACCAAAGGCCCTGCCAGGTGTGGGCCAC
AGCAGCAGGTATGTGTGAAAGCAACGTAGCGCCCCGGGACTGCAGTGCCTTAACCAAC
TCACCTCCCTTCTTAGCCCAAGCCTGTCCCTGCACAGCCTGCACAAACCACATTGC
CTGGTGGGGCCAGTGTACTGAAATAAAGTCGTTCCGATAGACACGTCAAAAAAAAAA
AAAAAAA

```

**Restriction Sites:** Please inquire

<b>ACCN:</b>	NM_005736
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_005736.2</a></u> , <u><a href="#">NP_005727.1</a></u>
<b>RefSeq Size:</b>	2828 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	10121
<b>UniProt ID:</b>	<u><a href="#">P61163</a></u>
<b>Cytogenetics:</b>	10q24.32
<b>Domains:</b>	ACTIN
<b>Gene Summary:</b>	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]