

## Product datasheet for **SC320716**

### **ACTR1B (NM\_005735) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ACTR1B (NM_005735) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACTR1B
Synonyms:	ARP1B; CTRN2; PC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_005735.2  
 CCCGGTCTCCCGCCCGCCGCCATCCGGTGCCTCCTGCAGCCCGCCTGCTGGGCAGGG  
 CCGGCGCGCCCGGCCATGGAGTCTACGACATCATCGCAACCAGCCTGTGGTCATCGA  
 CAACGGTTCGGGGGTGATTAAAGCTGGCTTTCAGGAGACCAGATTCCCAAATACTGTTT  
 CCCAAACTATGTCGGGCGCCGAAGCACATGCGGGTGTGGCTGGAGCCCTGGAGGGGA  
 CCTCTTCATCGGACAAAAGCAGAGGAGCACCGGGGGCTGCTGACCATCCGCTACCCCAT  
 GGAGCACGGCGTGGTGCAGACTGGAACGACATGGAACGCATCTGGCAGTACGTCTACTC  
 CAAGGATCAGCTGCAGACCTTCTCGGAGGAGCATCCTGTGCTCCTCACGGAGGCCCGCT  
 CAACCCGAGTAAGAACCAGGAGAAAGCGGCAGAGGTGTTCTTTGAGACCTTCAACGTGCC  
 GGCCCTGTTTATCTCCATGCAGGCTGTGCTCAGTCTGTACGCAACAGGACGCACGACAGG  
 AGTGGTCTAGACTCAGGGGACGGGGTCACTCATGCTGTGCCATCTATGAGGGCTTTGC  
 CATGCCTCACTCCATCATGCGGGTGGACATTGCCGGCCGCGACGTCTCCCGCTACCTCCG  
 ACTCCTGTGCGCAAGGAAGGGTTGACTTCCATACCTCGGCTGAGTTTGAGGTTGTCCG  
 GACAATCAAAGAGCGAGCGTGTACCTGTCCATCAACCCACAGAAGGATGAGGCTCTGGA  
 GACGGAGAAGGTGCAGTACACGTTGCCAGACGGCAGCACGCTTGATGTGGGGCCTGCACG  
 ATTCGGGCCCCCGAGCTGCTGTTCAGCCGGACCTTGTGGGGGATGAGAGTGAGGGGCT  
 CCATGAGGTGGTGGCCTTCGCCATACACAAGTCCGACATGGACCTGCGCCGGACGCTGTT  
 CGCCAACATCGTCTCAGGTGGCTCAACGCTTTTCAAAGGCTTCGGAGACCGATTACT  
 CAGTGAAGTGAAGAAGCTTGCCCAAAGGATATCAAAATCAAGATCTCAGCCCCGAGGA  
 ACGGCTGTACTCCACATGGATTGGCGGCTCCATCCTGGCTCGCTGGACACTTTTAAAGAA  
 GATGTGGGTGTCCAAAAGGAGTATGAAGAGGATGGCTCCCGTGTATTTCATCGCAAAAC  
 TTTCTAGTGCCCAAGGAGGGCGGGCATGTTGGGAGAAGGGGAGGGAGGGGAGACAGAGC  
 CTTTAAACCCTTTTGGTCTTGGCTCGTATACTAGGCTTAGGGTCCCCTGCATGCCCTGAA  
 CCCTGGGTGGTGGCACAGCAGTGCCTCCCTGCAGCCTTCCCCTTACACAGGACATGC  
 ACACACAAGTAACATTGAGCTGCATGGACAGGACCTTGAAGTGGCGTGTGGGAATTGAG  
 CGCCATGTGAGGCTGTTGTGGGTATCCCCTGGCAGGGCCAGCTAGGCCTGTGGTTCCCT  
 GCTCCGACTCTCAGGGTGCCTCCCTGAGCTCCAGGGCCAGAATGCCTGGATGCCTGGGT  
 AGCCAGTTTGGGAGTGGGCTGCAAGGGGCAGCCAGCAGCTCCCCTGGTGTGTCAGTGC  
 ATCCATTGCCACCTCCTGTTGCTGACCTGACAGGGTGACACAGCCCTTTCACACTCTGT  
 CCTCCTATCTTCTGGGTAGATGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCCATC  
 CCCAGCAAGGGGGTGCAGCCAGGGTCCAGCCCTTCCAGAGCCAGGGCAGAGGACGCACGG  
 TGCTAGAGCCGCTGCACTATCCTTTTCCAGAGCACTTATCCACTTGCTCCTCCCTCTAC  
 CCTCGGCACCCTGGGTGGAAAGGGTTGATGCTCATCATTATTGAGGGGAAGCCACTTA  
 ATAAGGAGTCAAGCTAAAAGGGGGTGGGGGACATTTTCTTACCTCACCAAGAAAGAGG  
 TCGTCACTTTTGTGTGGCCAGGGCCCCACCTCCCTCTCTCAGATATGTACAATAATTTA  
 ACACGGTTGCCTGAAAAAACTTTTGTAAATCATTATAGTAATAATTATGGACAAGGAAA  
 AAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005735

**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).

**OTI Annotation:** 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>	<a href="#">NM_005735.2</a> , <a href="#">NP_005726.1</a>
<b>RefSeq Size:</b>	2054 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	10120
<b>UniProt ID:</b>	<a href="#">P42025</a>
<b>Cytogenetics:</b>	2q11.2
<b>Domains:</b>	ACTIN
<b>Gene Summary:</b>	This gene encodes a 42.3 kD subunit of dynactin, a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein and 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, like ACTR1A, is an actin-related protein. These two proteins, which are of equal length and share 90% amino acid identity, are present in a constant ratio of approximately 1:15 in the dynactin complex. [provided by RefSeq, Aug 2008]