

Product datasheet for SC116594

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116594 sequence for NM_005735 edited (data generated by NextGen Sequencing)

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ATGGAGTCTACGACATCATCGCCAACCAGCCTGTGGTCATCGACAACGGTTCGGGGGTG
ATTAAAGCTGGCTTTGCAGGAGACCAGATTCCCAAATACTGTTTTCCCAAATATGTCGGG
CGGCCGAAGCACATGCGGGTGATGGCTGGAGCCCTGGAGGGGGACCTCTTCATCGGACCA
AAAGCAGAGGAGCACCAGGGGGTGTGACCATCCGCTACCCATGGAGCACGGCGTGGT
CGAGACTGGAACGACATGGAACGCATCTGGCAGTACGTCTACTCCAAGGATCAGTGCAG
ACCTTCTCGGAGGAGCATCCTGTGCTCCTCACGGAGGCCCGCTCAACCCGAGTAAGAAC
CGGGAGAAGGCGGAGAGGTGTTCTTTGAGACCTTCAACGTGCCGGCCCTGTTTCATCTCC
ATGCAGGCTGTGCTCAGTCTGTACGCAACAGGACGCACGACAGGAGTGGTCTAGACTCA
GGGGACGGGGTCACTCATGCTGTGCCCATCTATGAGGGCTTTGCCATGCCTCACTCCATC
ATGCGGGTGGACATTGCCGGCCGCGACGTCTCCCGCTACCTCCGACTCCTGCTGCGCAAG
GAAGGGTTGACTTCCATACCTCGGCTGAGTTTGAGGTTGTCGGACAATCAAAGAGCGA
GCGTGCTACCTGTCCATCAACCCACAGAAGGATGAGGCTCTGGAGACGGAGAAGGTGCAG
TACACGTTGCCAGCGGCAGCAGCCTTGATGTGGGGCTGCACGATCCGGGCCCCCGAG
CTGCTGTTCCAGCCGACCTTGTGGGGATGAGAGTGAGGGGCTCCATGAGGTGGTGGCC
TTCGCCATACACAAGTCCGACATGGACCTGCGCCGACGCTGTTCCGCAACATCGTGCTC
TCAGGTGGCTCAACGCTTTTCAAAGGCTTCGGAGACCGATTACTCAGTGAAGTGAAGAAG
CTTGCCCAAAGGATATCAAAATCAAGATCTCAGCCCCGACGGAACGGCTGTACTCCACA
TGGATTGGCGGCTCCATCCTGGCCTCGCTGGACACTTTTAAGAAGATGTGGGTGTCCAAA
AAGGAGTATGAAGAGGATGGCTCCCGTGTATTTCATCGCAAAAACCTTTCTAG

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Clone variation with respect to NM_005735.3
804 c=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005735 unedited NGGGGTCAAAATTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGCTCGCG TAGGCTGCAGGCTCGGGGAGGGAGGGCAGCGGCCCGCGTTCGGGAGCCGCCCGCTCCCG GTCCTCCCGCCCGCCCGCCATCCGGTGCCTCTGCAGCCCGCTGTGGGACAGGGCCGG CGCGGCCCGGCCATGGAGTCTACGACATCATCGCAACCAGCCTGTGGTTCATCGACAAC GGTTTCGGGGTGATTAAGCTGGCTTTGCAGGAGACCAGATCCCAAATACTGTTTCCCA AACTATGTCGGGCGGCCGAGACATGCGGGTGATGGCTGGAGCCCTGGAGGGGGACCTC TTCATCGACCAAAAGCAGAGGAGCACCGGGGGCTGCTGACCATCCGCTACCCCATGGAG CACGGCGTGGTGCAGACTGGAACGACATGGAACGCATCTGGCAGTACGTCTACTCCAAG GATCAGCTGCAGACCTTCTCGGAGGAGCATCCTGTGCTCCTCACGGAGGCCCGCTCAAC CCGAGTAAGAACCAGGAGGAGGCGGAGAGGTGTTCTTTGAGACCTTCAACGTGCCGGCC CTGTTTCTCCATGCAGGCTGTGCTCAGTCTGTACGCAACAGGACGCACGACAGGAGTG GTTCTAGACTCAGGGACGGNGTCACTCATGCTGTGCCCATCTATGAAGGCTNTGCCATG CCTCACTCCATCATGCGGGTGGACATTGCCGGCCGCGACGTCTCCCGCTACCTNCGACTN CTGCTGCGCAAGGAAGGGTTGACTTCCATACCTCGGCTGAGTTTGAGGTTGTCCGGACAA TCAAGAGCGAGCGTGTCTACCTGTNCATCAACCCACAAAGGATGANGCTCTGGAACCGAAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005735 unedited CTTGGCCGCGCCGCATCTAAGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTCCCTGGCCCATATTTTTACTATAAGGATTAACAAAAGTT TTTTTAAGGCACCCGGTAAAAATTTGGCCATTTTCTAAAAAAGGGAGGGGGGCCCTG CCCACAAAAAAGGGACAACCTTTTTTTGGGGGAGGAAAAAATGCCCCACCCCTT TTAAGGCCGGACCCCTTATAAAGGGCTCCCCCTATTAAGGATGAGCATAAACCTTTT CCCACCCAGGGGCCAAGGGTAAAGGGAGGACCAAGGGGATAAAGGCCTCTAAAAAGGAT AGGGAAGGGGTTTTAGCCACCGGCGTCTTTGCCTGGTTTTAAGGGCCTGACCTGG GCTGCCCCCTTTGTGGGGATGGAAAACCTTTAAGTCCTAACCTTACCCAGGGCTTT TCCCCAGAAAAATAGGAGGACAAATGGGGAAAGGGGCTGGGTACCCCTGTAAGGTCACAA ACAGGAGGGGGCATTGGTTGCAGGGACCCAGGGGAAGCTGTTGGTTGCCCTTTGAAC CCCATTCCTAAAATTGGTACCCAGGCTTCCAGGCTTTCTGGCCCTGAAGCTAAGGGAGG CACCCCTGAAATTCGGACCAGGGAACAACAGGCCTATCTGGCCCTGCCAGGGGAATCCCA CAAAAGCCTGACATGGCGCTAATTTCCACACGCAAGCTAAAGTCTCCTGTCCATGCANC TAATGTTACTTTGGGTGGGCATGCCCTGTTTAAAGGGGAATGCTCGCAGGGGGCCACTG CTTCTCCACCACCCAGGGTTTAGGGCTTGCAGGGGCCCTAACCCATTACAACCAGAC AAAAGGGTAGGGTTGTGGTCCCCTCCTTCCCTTTTCAAATGCCCGCCTTCTGGCCTAA AAATTTTGCAAGAAAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005735
Insert Size:	2260 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_005735.2](#), [NP_005726.1](#)

RefSeq Size: 2054 bp

RefSeq ORF: 1131 bp

Locus ID: 10120

UniProt ID: [P42025](#)

Cytogenetics: 2q11.2

Domains: ACTIN

Gene Summary: 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]