

Product datasheet for **RG202493**

ACTR1B (NM_005735) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTR1B (NM_005735) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACTR1B
Synonyms:	ARP1B; CTRN2; PC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202493 representing NM_005735 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCTACGACATCATCGCCAACAGCCTGTGGTCATCGACAACGGTTCGGGGTGATTAAGCTG
GCTTTCAGGAGACCAGATTCCCAAATACTGTTCCCAAATATGTCGGGCGGCCAAGCACATGCGGGT
GATGGCTGGAGCCCTGGAGGGGACCTTTCATCGGACAAAAGCAGAGGAGCACCAGGGGCTGCTGACC
ATCCGCTACCCCATGGAGCACGGCGTGGTGCAGACTGGAACGACATGGAACGCATCTGGCAGTACGTCT
ACTCCAAGGATCAGCTGCAGACCTTCTCGGAGGAGCATCCTGTGCTCCTCACGGAGCCCGCTCAACCC
GAGTAAGAACCGGAGAAGGCGGAGAGGTGTTCTTTGAGACCTCAACGTGCCGCCCTGTTTCATCTCC
ATGCAGGCTGTGCTCAGTCTGTACGCAACAGGACGACGACAGGAGTGGTTCTAGACTCAGGGGACGGGG
TCACTCATGCTGTGCCATCTATGAGGGCTTGGCCATGCCTCACTCCATCATGCGGGTGGACATTGCCGG
CCGCGAGCTTCCCGCTACCTCCGACTCCTGCTGCGCAAGGAAGGGGTTGACTTCCATACCTCGGCTGAG
TTGAGGTTGTCGGACAATCAAAGAGCGAGCGTGCTACCTGTCCATCAACCCACAGAAGGATGAGGCTC
TGGAGACGGAGAAGGTGCAGTACACGTTGCCAGACGGCAGCAGCCTTGTGAGGGGCTCCATGAGTGGTGCC
GGCCCCGAGCTGCTGTTCCAGCCGACCTTGTGGGGATGAGAGTGAGGGGCTCCATGAGTGGTGCC
TTCGCCATACACAAGTCCGACATGGACCTGCGCCGACGCTGTTCCCAAACATCGTCTCAGGTGGCT
CAACGCTTTTCAAAGGCTTCGGAGACCGATTACTCAGTGAAGTGAAGAAGCTTGCCCAAAGGATATCAA
AATCAAGATCTCAGCCCCGAGGAACGGCTGTAATCCACATGGATTGGCGGCTCCATCCTGGCCTCGCTG
GACACTTTAAGAAGATGTGGGTGTCCAAAAGGAGTATGAAGAGGATGGCTCCCGTGTATTTCATCGCA
AAACTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202493 representing NM_005735
 Red=Cloning site Green=Tags(s)

MESYDIIANQPVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHMRVMAGALEGDLFIGPKAEHRLLT
 IRYPMHEGVVRDNDMERIWQYVYSKDQLQTFSEEHPVLLTEAPLNPSKNREKAAEVFFETFNVPALFIS
 MQAVLSLYATGRITGVVLDSDGVTHAVPIYEGFAMPHSIMRVDIAGRDSRYLRLLLRKEGVDFHTSAE
 FEVVRTIKERACYLSINPQKDEALETEKVQYTLPDGSTLDVGPAPFRAPPELLFQPDLVGDESEGLHEVVA
 FAIHKSDMDLRRTLFAIIVLSGGSTLFGKFGDRLLSEVKKLAPKDIKIKISAPQERLYSTWIGGSILASL
 DTFKMMVYSKKEYEEDGSRAIHRKTF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005735

ORF Size: 1128 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_005735.2](#), [NP_005726.1](#)

RefSeq Size: 2054 bp

RefSeq ORF: 1131 bp

Locus ID: 10120

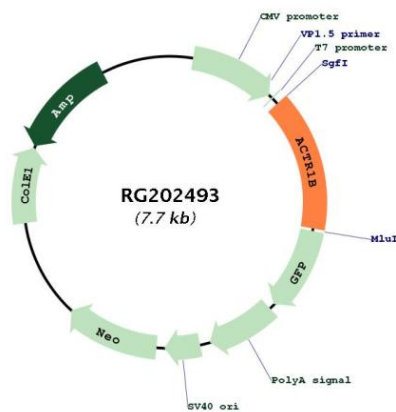
UniProt ID: [P42025](#)

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]

Product images:



Circular map for RG202493