

Product datasheet for **RG202148**

ACTR3B (NM_020445) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTR3B (NM_020445) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACTR3B
Synonyms:	ARP3BETA; ARP11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202148 representing NM_020445 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGCTCCCTGCCTCCCTGCGTGGTGGACTGTGGCACCGGGTATACCAAGCTTGGCTACGCAGGCA
ACACTGAGCCCCAGTTCATTATTCCTTCATGTATTGCCATCAGAGAGTCAGCAAAGGTAGTTGACCAAGC
TCAAAGGAGAGTGTGAGGGGAGTTGATGACCTTGACTTTTTTCATAGGAGATGAAGCCATCGATAAACCT
ACATATGCTACAAAGTGCCGATACGACATGGAATCATTGAAGACTGGGATCTTATGAAAGGTTTCATGG
AGCAAGTGGTTTTAAATATCTTCGAGCTGAACCTGAGGACCATTATTTTTTAATGACAGAACCTCCACT
CAATACACCAGAAAACAGAGAGTATCTTCAGAAATTATGTTGAATCATTTAACGTACCAGGACTCTAC
ATTGCAGTTCAGGCAGTGTCTGGCCTTGGCGGCATCTTGGACATCTCGACAAGTGGGTGAACGTACGTTAA
CGGGGATAGTCATTGACAGCGGAGATGGAGTCACCCATGTTATCCAGTGGCAGAAAGGTTATGTAATTGG
AAGCTGCATCAAACACATCCCGATTGCAGGTAGAGATATTACGTATTTTCATTCAACAGCTGCTAAGGGAG
AGGGAGGTGGGAATCCCTCTGAGCAGTCACTGGAGACCGCAAAAGCCATTAAGGAGAAATACTGTTACA
TTTGCCCCGATATAGTCAAGGAATTTGCCAAGTATGATGTGGATCCCCGGAAGTGGATCAAACAGTACAC
GGGTATCAATGCGATCAACCAGAAGAAGTTTGTATAGACGTTGGTTACGAAAGATTCTGGGACCTGAA
ATATTCTTTCACCCGAGTTTGGCAACCCAGACTTTATGGAGTCCATCTCAGATGTTGTTGATGAAGTAA
TACAGAACTGCCCATCGATGTGCGGCCGCCGCTGTATAAGAATGTCGTACTCTCAGGAGGCTCCACCAT
GTTTCAGGGATTTTCGACGCCGACTGCAGAGGGATTTGAAGAGAGTGGTGGATGCTAGGCTGAGGCTCAGC
GAGGAGCTCAGCGGCGGGAGGATCAAGCCGAAGCCTGTGGAGGTCCAGGTGGTCACGCATCAGTGCAGC
GCTACGCCGTGTGGTTCGAGGCTCCATGCTGGCCTCGACTCCCGAGTCTTTTCAGGTCTGCCACACCAA
GAAGGACTATGAAGAGTACGGGCCAGCATCTGCCGCCACAACCCGCTTTGGAGTCATGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202148 representing NM_020445
 Red=Cloning site Green=Tags(s)

MAGSLPPCVVDCGTGYTKLGYAGNTEPQFIIPSCIAIRESAKVVDQAQRRVLRGVDDLDFFIGDEAIDKP
 TYATKWPIRHGIIEDWDLMERFMEQVVKYLRAEPEDHYFLMTEPPLNTPENREYLAEIMFESFNVPGLY
 IAVQAVLALAASWTSRQVGERTLTGIVIDSGDGVTHVIPVAEGYVIGSCIKHIPIAGRDITYFIQQLRE
 REVGIPEQSLETAKEIKEKYCYICPDIVKEFAKYDVPDPRKWIKQYTGINAINQKKFVIDVGYERFLGPE
 IFFHPEFANPDFMESISDVVDEVIQNCPIDVRRPLYKNVVLGGSTMFRDFGRRLLQDRLKRVVDARLRLS
 EELSGGRIKPKPVEVQVVTHMQRYAVWFGGSMFASTPEFFQVCHTKKDYEYGPSICRHNPFVGVMS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_020445

ORF Size: 1254 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_020445.6](#)

RefSeq Size: 2199 bp

RefSeq ORF: 1257 bp

Locus ID: 57180

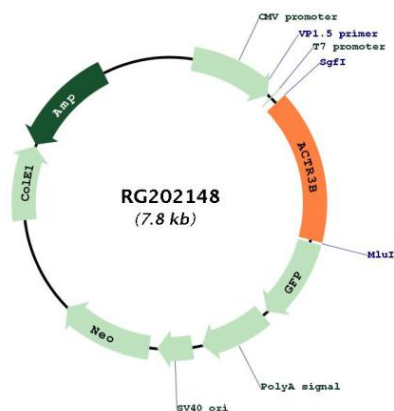
UniProt ID: [Q9P1U1](#)

Cytogenetics: 7q36.1-q36.2

Domains: ACTIN

Gene Summary: This gene encodes a member of the actin-related proteins (ARP), which form multiprotein complexes and share 35-55% amino acid identity with conventional actin. The protein encoded by this gene may have a regulatory role in the actin cytoskeleton and induce cell-shape change and motility. Pseudogenes of this gene are located on chromosomes 2, 4, 10, 16, 22 and Y. Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG202148