

Product datasheet for **MG206628**

Actr3b (NM_001004365) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Actr3b (NM_001004365) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Actr3b
Synonyms: 9630005C02; Arp3b; Arp3beta; ARP11; AW047569
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206628 representing NM_001004365
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCGGGCTCGCTGCCTCCCTGCGTGGTTGACTGCGGCACCGGGTACACCAAGCTTGGCTACGCAGGCA
 ACACTGAACCACAGTTCATTATCCCGTCATGTATCGCCATCCGAGAATCTGCAAAGGTAGTTGATCAAGC
 CCAAAGGAGGGTGTGAGAGGAGTCGATGACCTTGATTTCTTCATAGGGGATGAAGCCATTGATAAACCT
 ACCTACGCTACCAAGTGGCCTATACGACATGGCATCGTTGAAGACTGGGATCTTATGAAAGGTTTCATGG
 AACAGTGGTCTTTAAGTATCTTCGTGCTGAACCTGAGGACCACTACTTTTTAATGACAGAACCTCCACT
 GAACACACCAGAAAACAGAGAGTACCTTGAGAAATCATGTTTGAATCATTTAATGTACCAGGACTCTAC
 ATTGCAGTACAGGCAGTGTGGCTCTGGCAGCCTCTTGGACATCCCGGCAAGTTGGTGAACGCACACTAA
 CGGGGATAGTTATAGACAGTGGAGACGGTGTACCCATGTTATCCCGGTGGCAGAAGGTTATGTAATTGG
 AAGCTGCATCAAACACATCCCAATTGCAGGTAGAGATAATTACGTATTTCAACAGCTGCTAAGGGAG
 AGGGAGGTGGGAATCCCTCCTGAGCAGTCACTGAAACCGCAAAGCCATCAAGGAGAAGTACTGCTACA
 TTTGCCCGGATATTGTCAGAGAATTTGCTAAGTATGACGTAGATCCTCGGAAGTGGATCAAACAGTACAC
 AGGGATCAATGCCATCAACCAGAAGAAGTTCATTATAGATGTTGGTTATGAAAGGTTCTCGGACCAAGAA
 ATATTTTACCCTGAGTTTGCCAACCCAGACTTTATGGAGTCCATCTCGGATGTTGTCGATGAAGTCA
 TACAGAGCTGTCCATAGATGTGCGCCGCGCTGTATAAGAACGTCGTTCTTTCTGGAGGCTCCACAAT
 GTTCAGAGATTTGGACGTCGTCTGCAGAGAGATTTGAAAAGAGTGGTGGACGCCAGGTTAAAGCTGAGC
 CAAGAGCTCAGTGGAGGCAGGATAAAGCCTAAACCTGTGGAGGTGCAGGTGGTACGCACCACATGCAGC
 GCTATGCCGTGTGGTTTGGAGGCTCGATGCTAGCCTCAACTCCGGAGTCTTTTCAGGTCTGTACACCAA
 GAAGGACTATGAGGAATACGGCCCAAGCATCTGCCGCCACAACCTGTCTTCGGAGTCATGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206628 representing NM_001004365
 Red=Cloning site Green=Tags(s)

MAGSLPPCVVDCGTGYTKLGYAGNTEPQFIIPSCIAIRESAKVVDQAQRRVLRGVDDLDFFIGDEAIDKP
 TYATKWPIRHGIVEDWDLMERFMEQVVKYLRAEPEDHYFLMTEPPLNTPENREYLAEIMFESFNVPGLY
 IAVQAVLALAASWTSRQVGERTLTGIVIDSGDGVTHVIPVAEGYVIGSICKIHIPIAGRDITYFIQQLLRE
 REVGIPEQSLETAKEIKEKYCYICPDIVREFAKYDVPDKWIKQYTGINAINQKFFIIDVGYERFLGPE
 IFFHPEFANPDFMESISDVVDEVIQSCPIDVRRPLYKKNVLSGGSTMFRDFGRRLQRDLKRVDARLKLS
 QELSGGRIKPKPVEVQVVTTHMQRYAVWFGGSMFASTPEFFQVCHTKKDYEEYGPSICRHNPFVGVMS

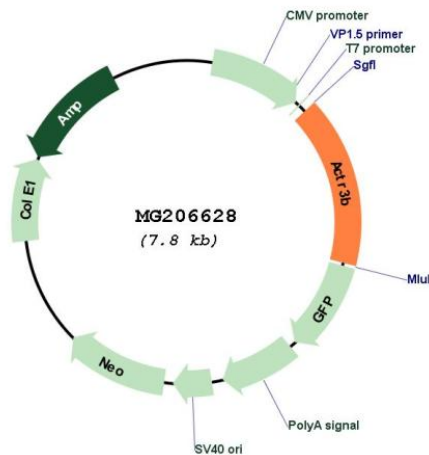
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001004365

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:	<ol style="list-style-type: none">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_001004365.2 , NP_001004365.1
RefSeq Size:	1734 bp
RefSeq ORF:	1257 bp
Locus ID:	242894
UniProt ID:	Q641P0
Cytogenetics:	5 B1
Gene Summary:	Plays a role in the organization of the actin cytoskeleton. May function as ATP-binding component of the Arp2/3 complex which is involved in regulation of actin polymerization and together with an activating nucleation-promoting factor (NPF) mediates the formation of branched actin networks. May decrease the metastatic potential of tumors (By similarity). [UniProtKB/Swiss-Prot Function]