

Product datasheet for **MG219887**

Actbl2 (NM_175497) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Actbl2 (NM_175497) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Actbl2
Synonyms: 4732495G21Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219887 representing NM_175497
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGACGATGAGCTGACTGCTTTGGTAGTAGATAATGGGTCAGGGATGTGCAAGGCAGGTTTTGGGG
GTGACGATGCCCCCGTGTGTTCCTCCATGGTTGGTCGTCCACGACACCAGGGGGTCATGGTAGG
CATGGGCCAGAAGGACTGTTATGTGGGAGATGAGGCCAGAGCAAGCGAGGCATCTTGACCTTGAAGTAT
CCCATTGAACACGGAGTCGTACCAACTGGGATGATATGGAGAAGATCTGGTACCACACTTCTACAATG
AGCTCCGGGTAGCACCGGATGAACATCCTATTCTCTCACGAGGCACCCCTTAACCCAAAATCAACCG
GGAAAAGATGACTCAGATAATGTTTCGAGGCTTCAACACACCTGCCATGTATGTAGCAATCCAAGCCGTG
CTATCCCTCTATGCTTCCGGAAGGACTACAGGTATCGTGATGGATTCTGGGGATGGGGTCACTCACACTG
TGCCATCTATGAAGTTACGCTCTGCCTCATGCCATTCTACGACTAGATCTGGCAGGTAGGGACCTGAC
TGATTACCTCATGAAGATTCTGACAGAACGAGGCTATAACTTCACCACCACAGCAGAGAGGGAGATCGTG
CGGGATGTCAAAGAAAAGTTGTGCTACGTGGCCCTGGACTTTGAGCAGGAGATGGTCACTGCAGCCGCTT
CATCCTCACTAGAGAGAAGCTATGAGCTCCCTGATGGGCAGGTGATCACCATTGGAATGAACGCTTCCG
GTGCCCAGAAGCCATTTCCAGCCTTCTTTCTAGGCATTGAATCCAGAGGCATCCATGAGACAACCTTC
AACTCGATCATGAAGTGTGATGTAGATATTCGTAAGGATTTATTGCCAACACTGTGCTGTGGAGGCA
GTACCATGTACCCAGGCATTGCCGACAGGATGCAGAAGGAAATTGTAACCTTGGCACCAAGTACCATGAA
AATTAAGATCATAGCTCCCCAGAACGCAAGTATTCGTTTGGATTGGGGCTCCATCCTCGCCAGCCTG
TCCACATTCCAGCAGATGTGGATCAGTAAGCAGGAATATGACGAAGCTGGACCTCCATTGTTTCATAGAA
AATGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219887 representing NM_175497
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MVDELTA L VVDNGSGMCKAGFGGDDAPRAVFPMSVGRPRHQVMVGMGQKDCYVGDQAQSKRGILTLKY
 PIEHGVVTNWDDMEKIWHYHTFYNELRVAPDEHPILLTEAPLNPKINREKMTQIMFEAFNTPAMYVAIQAV
 LSLYASGRRTGI VMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYNFTTTAEREIV
 RDVKEKLCYVALDFEQEMVTAASSSLERSYELPDGQVITIGNERFRCPEAIFQPSFLGIESRGIHETTF
 NSIMKCDVDIRKDLFANTVLSGGSTMYPGIADRMQKEIVTLAPSTMKIKI IAPPERKYSVWIGGSILASL
 STFQQMWISKQEYDEAGPPIVHRKCF

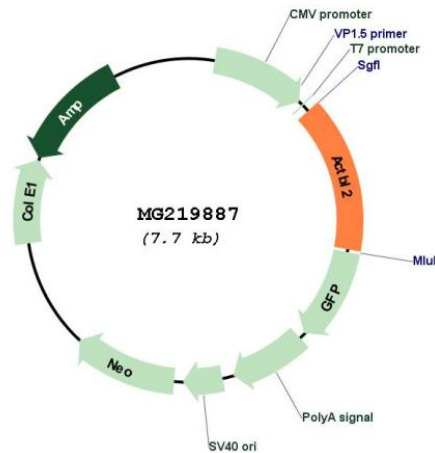
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_175497

| | |
|-------------------------------|---|
| 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: | <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_175497.3 , NP_780706.1 |
| RefSeq Size: | 2737 bp |
| RefSeq ORF: | 1131 bp |
| Locus ID: | 238880 |
| UniProt ID: | Q8BFZ3 |
| Cytogenetics: | 13 D2.2 |
| Gene Summary: | Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.[UniProtKB/Swiss-Prot Function] |