

Product datasheet for **MR219887**

Actbl2 (NM_175497) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actbl2 (NM_175497) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actbl2
Synonyms:	4732495G21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219887 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGACGATGAGCTGACTGCTTTGGTAGTAGATAATGGGTCAGGGATGTGCAAGGCAGGTTTGGGG
GTGACGATGCCCCCGTGCTGTGTTCCCTCCATGGTTGGTCGTCCACGACACCAGGGGGTCATGGTAGG
CATGGGCCAGAAGGACTGTTATGTGGGAGATGAGGCCAGAGCAAGCGAGGCATCTTGACCTGAAGTAT
CCCATTGAACACGGAGTCGTACCAACTGGGATGATATGGAGAAGATCTGGTACCACACTTCTACAATG
AGCTCCGGGTAGCACCGGATGAACATCCTATTCTCTCACCGAGGCACCCCTTAACCCAAAATCAACCG
GGAAAAGATGACTCAGATAATGTTTCGAGGCTTTCAACACACCTGCCATGTATGTAGCAATCCAAGCCGTG
CTATCCCTCTATGCTTCCGGAAGGACTACAGGTATCGTGATGGATTCTGGGGATGGGGTCACTCACACTG
TGCTATCTATGAAGTTACGCTCTGCCTCATGCCATTCTACGACTAGATCTGGCAGGTAGGGACCTGAC
TGATTACCTCATGAAGATTCTGACAGAACGAGGCTATAACTTCACCACCACAGCAGAGAGGGAGATCGTG
CGGGATGTCAAAGAAAAGTTGTGCTACGTGGCCCTGGACTTTGAGCAGGAGATGGTCACTGCAGCCGCTT
CATCCTCACTAGAGAGAAGCTATGAGCTCCCTGATGGGCAGGTGATCACCATTGGAAATGAACGCTTCCG
GTGCCCAGAAGCCATTTCCAGCCTTCCTTTCTAGGCATTGAATCCAGAGGCATCCATGAGACAACCTTC
AACTCGATCATGAAGTGTGATGTAGATATTCGTAAGGATTTATTTGCCAACACTGTGCTGTGGAGGCA
GTACCATGTACCCAGGCATTGCCGACAGGATGCAGAAAGGAAATTGTAACCTTGGCACCAAGTACCATGAA
AATTAAGATCATAGCTCCCCAGAACGCAAGTATTCGTTTGGATTGGGGCTCCATCCTCGCCAGCCTG
TCCACATTCCAGCAGATGTGGATCAGTAAGCAGGAATATGACGAAGCTGGACCTCCCATTTGTTATAGAA
AATGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR219887 protein sequence
 Red=Cloning site Green=Tags(s)

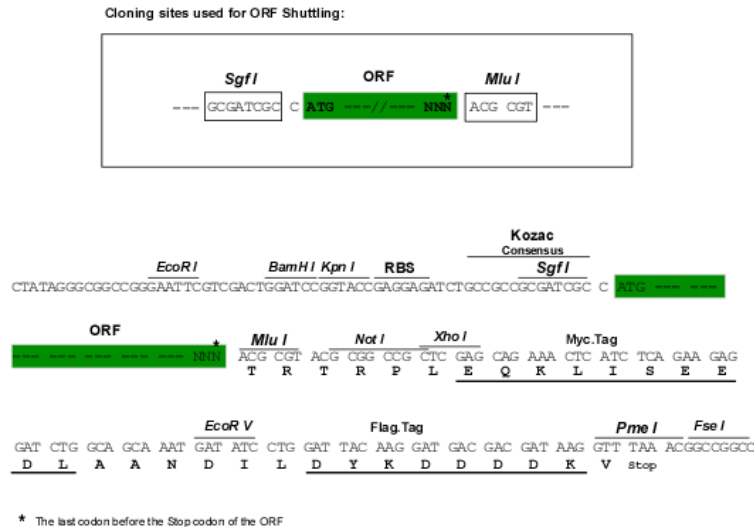
MVDEL TALVVDNGSGMCKAGFGGDDAPRAVFPMSVGRPRHQGVVMGMGQKDCYVGDEAQS KRGILT KY
 PIEHGVVTNWDDMEKIWHYHTFYNELRVAPDEHPILL TEAPLNPKINREKMTQIMFEAFNTPAMYVAIQAV
 LSLYASGRTTGI VMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYNFTTTAEREIV
 RDVKEKLCYVALDFEQEMVTAAASSSLERSYELPDGQVITIGNERFRCPEAIFQPSFLGIESRGIHETTF
 NSIMKCDVDIRKDLFANTVLSGGSTMYPGIADRMQKEIVTLAPSTMKIKIIAPPERKYSVWIGGSILASL
 STFQQMWISKQEYDEAGPPIVHRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_175497

ORF Size: 1128 bp

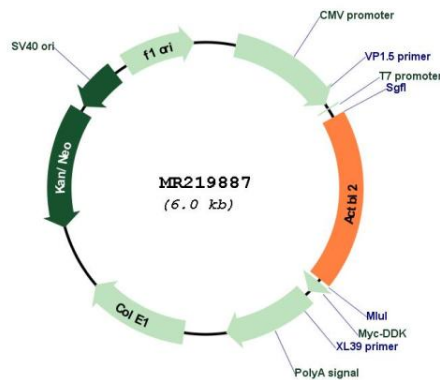
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_175497.3, NP_780706.1</u>
RefSeq Size:	2737 bp
RefSeq ORF:	1131 bp
Locus ID:	238880
UniProt ID:	<u>Q8BFZ3</u>
Cytogenetics:	13 D2.2
MW:	42 kDa
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]

Product images:



Circular map for MR219887