

Product datasheet for **MG211156**

Actn4 (NM_021895) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actn4 (NM_021895) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Actn4
Synonyms:	C77391
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG211156 representing NM_021895
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGACTACCACGCAGCGAACCAGGCGTACCAGTACGGCCCCAACAGCGCGCGGCAATGGCGCGG
 GTGGCGCGGAAGCATGGGCGACTACATGGCCCCAGGAGGATGACTGGGACCGGGACTGCTGTTGGACCC
 GGCTGGGAGAAGCAGCAGCGCAAGACCTTACAGCCTGGTGCAACTCTCATCTTCGGAAGGCTGGCACT
 CAGATCGAGAATATCGATGAGGACTTCAGGGATGGGCTCAAACCTATGCTTCTGTTGGAGGTCATTTGAG
 GGGAGCGTTTGCCTAAGCCAGAGCGGGGAAGATGCGAGTGCACAAGATCAACAATGTAACAAAGCCCT
 GGACTTCACTCGCCAGCAAGGGAGTCAAGCTGGTGTCCATCGGGCAGAAGAGATTGTGGATGGCAATGCA
 AAGATGACCTGGGAATGATCTGGACCATCATCCTCAGATTTGCCATCCAGGACATCTCTGTGGAAGAGA
 CCTCTGCTAAGGAAGGACTCCTCCTCTGGTGCCAGAGAAAACAGCCCCATATAAAAACGTCACAGTCCA
 GAACCTTCATATCAGCTGGAAGGACGGGCTGGCCTTCAATGCACTCATCCACCGGCACAGGCCTGAGCTG
 ATTGAGTATGACAAGCTCGCGAAGGATGATCCAGTCAACCAACCTAAACAATGCATTTGAAGTGGCTGAGA
 AATACCTCGATATCCCCAAGATGTTGGATGCTGAGGACATCGTGAACACAGCCCCGGCCGACGAGAAGGC
 CATAATGACATATGTGTCCAGCTTCTACCATGCCTTTTCAGGAGCGCAGAAGGCTGAGACCCTGCCAAC
 CGGATCTGCAAGGTGCTGGCTGTGAACCAGGAAAATGAGCACCTGATGGAAGACTATGAACGCTGGCCA
 GTGATCTTCTAGAGTGGATTTCGGCGCACCATCCCCTGGCTGGAGGACCGGGTGCCTCAGAAGACCATCCA
 GGAATGCAGCAGAAGCTGGAGGACTTCGAGACTATAGGCGTGTGCACAAGCCGCCAAGGTGCAGGAG
 AAGTGTGAGTGGAGATCAACTTCAACACACTGCAGACCAAGCTGCGGCTCAGCAACCGGCTGAGAAAGGG
 TGCCCTCCGAGGGCAGGATGGTCTCCGACATCAACAATGGATGGCAGCACCTGGAGGAGGAGGAGGAGG
 CTATGAAGAATGGCTGCTGAATGAAATCCGTAGGCTGGAACGGCTTGACCACCTGGCAGAGAAGTTCCGG
 CAGAAGGCTTCCATCCACGAGGCTGGACTGATGGGAAGGAGGCCATGCTGAAGCAACGGGACTACGAGA
 CAGCCACCCTGTGAGACATCAAAGCTCTGATCCGAAAACATGAGGCCTTTGAAAGTGACCTGGTGCACA
 CCAGGACCGAGTGGAGCAGATTGCTGCAATTGCTCAGGAGCTCAACGAGCTGGACTACTATGACTCCCAC
 AACGTCAACACACGGTGCCAGAAGATCTGCGACCAGTGGGATAACCTGGGCTCTCTGACACACAGTCGCA
 GGAAGCCTTGGAGAAAACAGAGAAACAGCTAGAGACCATCGACCAGCTACATTTGGAGTATGCCAAGCG
 GGCTGCACCCTTCAACAAGTGGATGGAGAGTGCATGGAGGACCTGCAGGACATGTTTCATCGTCCACACC
 ATCGAGGAGATCGAGGGCTGATCTCAGCCATGACCAGTTCAAGTCCACCCTGCCAGATGCTGACAGGG
 AGCGTGAGGCCATCCTGGCCATCCACAAGGAGGCCAGAGGATCGCTGAGAGCAATCACATCAAGCTGTC
 GGGCAGCAATCCCTACACCCTGTTACCCCCAGATCATCAACTCCAAGTGGGAGAAGGTGCAGCAGCTG
 GTGCCAAAGAGGGACCATGCACTCCTGGAGGAGCAGAGCAAGCAGCAATCCAATGAGCACCTTCGGCGAC
 AGTTTCGCCAGCCAAGCCAATATGGTGGGGCCGTGGATCCAGACCAAGATGGAGGAGATCGGGCGCATCTC
 CATTGAGATGAACGGGACTCTGGAAGACCAGCTGAGCCACCTGAAGCAGTACGAGCGCAGCATCGTGGAC
 TACAAGCCCAGCTGGACCTGCTGGAGCAGCAGCACCAGCTCATCCAGGAGGCCCTCATCTTCGACAACA
 AGCACACCAACTACACAATGGAGCATATCCGTGTGGGCTGGGAGCAGCTGCTCACGACATTGCCCGCAC
 CATCAATGAGGTGGAACCAGATCCTCACCCGAGATGCCAAGGGTATCAGCCAGGAGCAGATGCAAGGAG
 TTCCGGGCATCCTTCAACCATTTGACAAGGACCATGGCGGGGCACTGGGCTGAGGAATTCAGGCTT
 GCCTCATCAGCCTGGGCTATGACGTGGAGAATGACCGGCAGGGTATGCTGAGTTCAACCGATCATGAG
 TGTGGTTGATCCCAACCATAGTGGCCTCGTGACCTTCCAAGCCTTCAATTGACTTCAATGCAAGGGAGACC
 ACAGACACAGACAGCTGATCAGGTATCGCCTCCTTCAAGGTCTGGCAGGAGACAAGAACTTCATCA
 CTGCTGAGGAACTGCGGAGAGAGCTGCCCCGACCAGGCCGAGTACTGCATCGCCCGCATGGCACCCCTA
 CCAGGGGCTGATGCTGCTCCTGGCGCCCTTGACTACAAGTCTTCTCCACAGCCCTCTATGGGAGAGC
 GACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211156 representing NM_021895
 Red=Cloning site Green=Tags(s)

MVDYHAANQAYQYGPNSGGGNGAGGGGSMGDYMAQEDDWRDLLLLDPAWEKQQRKFTTAWCNSHLRKAGT
 QIENIDEDFRDGLKMLLLEVISGERLPKPERGKMRVHKINNVNKALDFIASKGVKLVSIGAEEIVDGNA
 KMTLGMIIWIIILRF AIQDISVEETS SAKEGLLLWCQRKTAPYKNNVQNFHISWKDGLAFNALIHRHPEL
 IEYDKLRKDDPVTNLNNAFEVAEKYLDIPKMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQAETAAN
 RICKVLAVNQENEHLMEDYERLASDLEWIRRTIPWLED RVPQKTIQEMQQKLEDFRDYRRVHKPKVQE
 KCQLEINFNTLQTKLRLSNRPAFMPSEGRMVSDINNGWQHLEQAEGYEEWLLNEIRRERLDHLAEKFR
 QKASIHEAWTDGKEAMLKQRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSH
 NVNTRCQKICDQWDNLGSLTHSRREALEKTEKQLETIDQLHLEYAKRAAPFNNWMSAMEDLQDMFIVHT
 IEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIAESNHKLSGSNPYTTVTPQIINSKWEKVQQL
 VPKRDHALLEEQSKQQSNEHLRRQFASQANMVGPIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVD
 YKPSLDLLEQQHQLIQEALIFDNKHTNYTMEHIRVGEQLTTIARTINEVENQILTRDAKGISQEQMQE
 FRASFNFHFDKDHGGALGPEEFKACLI SLGYDVENDRQGD AEFNRIMSVVDPNHSGLVTFQAFIDFMSRET
 TDTDTADQVIASFVKVLAGDKNFITAELRRELPPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGES
 DL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

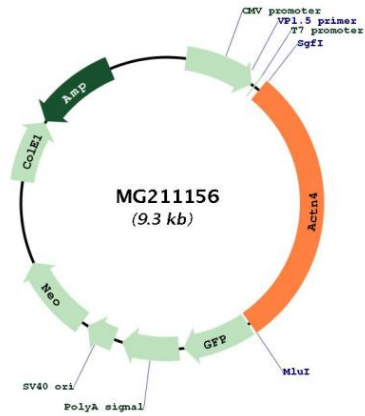
Cloning Scheme:



ACCN: NM_021895

ORF Size:	2736 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_021895.3
RefSeq Size:	3859 bp
RefSeq ORF:	2739 bp
Locus ID:	60595
UniProt ID:	P57780
Cytogenetics:	7 B1
Gene Summary:	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein. Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (By similarity). Involved in tight junction assembly in epithelial cells probably through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (PubMed:18332111). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211156