

Product datasheet for **MG211081**

Actn1 (NM_134156) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actn1 (NM_134156) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Actn1
Synonyms:	3110023F10Rik; Actn1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG211081 representing NM_134156
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGACCATTATGATTCCAGCAGACCAACGACTACATGCAGCCTGAAGAGGACTGGGATCGGGACCTGC
TCCTGGATCCGGCTGGGAGAAGCAGCAGAGGAAGACGTTACAGCCTGGTGCAACTCCCACCTGCGCAA
AGCGGGGACACAGATCGAGAACATCGAAGAGGACTTCCGAGATGGCCTGAAGCTCATGCTGCTCCTGGAG
GTCATCTCAGGTGAACGCTTGGCCAAGCCAGAGAGAGGCAAGATGAGAGTGCACAAGATCTCCAACGTCA
ACAAGGCCTTGGATTTTCATAGCCAGCAAAGGGTCAAGCTGGTGTCCATCGGAGCTGAAGAAATTGTGGA
TGGAAATGTAAGATGACCCTGGGCATGATCTGGACCATCATTCTCCGCTTTGCCATCCAGGACATCTCC
GTGGAAGAGACTTCAGCTAAAGAAGGGTACTCCTGTGGTGTGAGAGGAAGACAGCCCCATATAAAATG
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GCCCGAGTTGATTGACTATGAAAAGCTTCGAAAGGATGATCCACTCACAACCTGAACACGGCCTTTGAT
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CGTACATACCATCGAGGAGATCCAGGACTGACCACAGCCATGAGCAGTTCAAGGCCACCCTCCGGAT
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AATTACATCACAGAGGATGAGCTGCGCCGTGAGCTGCCCCCTGACCAAGCCGAGTACTGCATCGCAAGAA
TGGCCCCCTACGCGGGCCCCGACTCCGTGCCCGGTGCTTTAGACTACATGTCTTCTCCACGGCACTGTA
TGGCGAGAGCGACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211081 representing NM_134156
 Red=Cloning site Green=Tags(s)

MDHYDSQQTNDYMQPEEDWDRDLLLDPaweKQQRKFTTAWCNshLRKAGTQIENIEEDFRDGLKLMLLLE
 VISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGNVKMTLGMiWTiILRFaiQDIS
 VEETSAKEGLLLWCQRKTAPYKVNVIQNFHISWKDGLGFCALiHRhrPELIDYgKLRKDDPLTNLNTAFD
 VAERFLDIPKMLDAEDIVGTARPEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYE
 KLASDLEWIRRTIPWLENRPENTMHAMQKLEDFRDYRRLHKPPKVQEKCLEINFNTLQTKLRLSNR
 PAFMPSEGRMVSDINNAWGCLEQAekGYEEWLLNEiRRlERLDHLAEKFRQKASiHEAWTDGKEAMLrQK
 DYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYDSPSVNARCQKICDQWDNLGALT
 QKRREALERTEKLEETIDQLYLEYAKRAAFPNNWMEGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPD
 ADKERLAILGIHNEVSKIvQTYHVNmagTNPYTTITPQeINGKWDHVRQLVPRRDQALTEEHARQQHNER
 LRKQFGAQANVIGPWIQTkmEEIGRiSiEMHGtLEDQLSHLRQYEKSiVNYKPKIDQLECDHQLIQEALI
 FDNKHTNYNMEHIRVgWEQLLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGLGPEE
 FKACLISLGYDIGNDPQGEAEFARIMSiVDPNRLGVVTFQAFIDFMSRETADTDTADQVMASFKILAGDK
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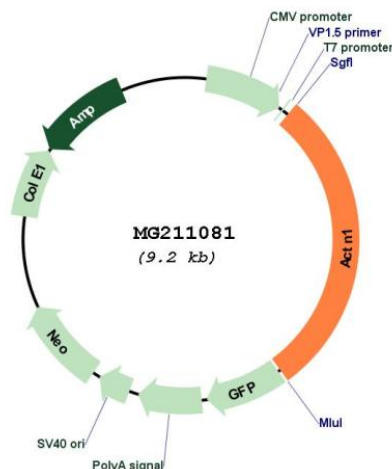
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_134156

ORF Size: 2676 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_134156.3](#)

RefSeq Size: 3705 bp

RefSeq ORF: 2679 bp

Locus ID: 109711

UniProt ID: [Q7TPR4](#)

Cytogenetics: 12 36.49 cM

Gene Summary:

F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein (By similarity).[UniProtKB/Swiss-Prot Function]