

## Product datasheet for **MG224700**

### Add3 (NM\_001164101) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Add3 (NM_001164101) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Add3
Synonyms:	A1463285; R75380
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224700 representing NM\_001164101  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTTCGGACACCAGCCAGCTGTGGTTACCACGCCTCCTCCTCCAGCATGCCTCACAAAGAGAGGT  
 ATTTTGACCGAATCAATGAAAGTGATCCGGAATACCTTCGAGAGAGGAACATGTCTCCTGATCTACGACA  
 GGACTTCAATATGATGGAGCAGAGGAAGCGAGTCACTCAGATCCTGCAGAGCCCTGCCTTTCGGGAAGAC  
 CTGGAATGCCTCATCCAAGAGCAGATGAAGAAAGGCCACAACCCAAGCGGCTTATTAGCGTTACAGCAGA  
 TTGCGGATTACATCGTGACCAGCTCCTTCTCGGGCTTCTCCTCGCCCTCCTGAGTCTTGGCATGGTCAC  
 ACCTATTAATGACCTTCTGGTGCAGATACATCCTCGTATGTGAAGGGAGAAAAGCTTACTCGTGCAAA  
 CTTGCCAGCCTTACAGGCTTGCAGACTGTTTGGGTGGGCGCACCTGGCAAATACGTACATCTCGGTAC  
 GAATAAGTAAGGAGCAAGACCACATTATAATAATCCAGAGGCCTCTTTTTTGAAGCGACAGCCTC  
 CACTTTGGTGAAGTCAACATAATCGGAGAAGTGGTGGACCAGGGGAGCACTGATCTGAAAATCGACCAC  
 ACGGGCTTCAGCCCGCATGCTGCCATCTATTCAACACGCCCCGATGTGAAGTGTGTGATCCACATCCACA  
 CCCTTGCCACAGCAGCGGTGCTCCATGAAGTGTGGGATCCTTCCAATTTCCAAGAGTCTCTCATCCT  
 GGGAGATGTGCGCTACTATGACTACCAGGGTGCCTTGATGAGGAGGAAGAAAGAATTGAACTTCAGAAA  
 GTGCTGGGTCCAAGCTGAAGGTGCTCGTCCAGGAACCATGGCATGGTGGCTCTTGGCGAGACCTCG  
 AGGAGGCTTTCCATTACATCTTTAATGTACAGATGGCCTGTGAGATCCAGGTGCAGGCAGTAGCAGGGGC  
 AGGCGGAGTAGACAATCTGCTCGTACTGGATCTTCAGAAATATAAAGCTTTCACCCACGGTGTGCCATG  
 TCTGGAGGAGCGGTGTAACATGGCTTCCATCAGAAGTGAAGGTTGGCGAGATTGAGTTTGAAGGGC  
 TGATGAGGACCTGGACAACCTGGGCTACAGAACAGGCTATGCGTACAGGCATCCTCTGGTCCGAGAGAA  
 GCCTAGGCACAAGAGTGACGTGGAGATCCCTGCAACCGTGAAGTGCCTTCTCCTTTGAAGATGACAGTGT  
 CCACTCTCTCCCCTCAAGTTCATGGCACAGAGACAGCAGCGTGAAAAACAAGATGGCTGAATTCACCAA  
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 GTGGATGAAAGCAGAAGACTCCTCTAAAGTCAGTAGTGGGACACCGATCAAAATTGAAGACCCCAATCAG  
 TTTGTTCTTTAAACACAAACCCGACGGAGGTGCTAGAAAAGAGAAATAAGATCCGGGAACAGAATCGCT  
 ATGATCTGAAGACAGCAGGGCCGAGTCTCAGTGTGCTGGCGGGATCGTTGTGGACAAGCCGCCTTCGAC  
 CATGCAGTTTGACGATGACGATCAGGGCCACAGCTCCTCCTAACCCATTAGCCACCTCCTGGAAGGA  
 GAACTGGAAGAGTATACGAAGACAATCGAGAGAAAGCAGCAAGGCCTGGACGAAAACCACGAGCTGTTTT  
 CCAAGAGCTTACCTCCATGGACGCGCCTGTATGATCATGAACGGCAAGGACGAGATGCATGATGTGCA  
 AGACGAGCTTGTCTAGCGAGTCAGTAGGCTGACCACAAGCACGACCATAGAGAACATCGAGATCACCATT  
 AAGTCCCCAGAAAGAAGTGAAGAGGTCTGTGCGCTGATGGCTCACCTTCAAAGTCGCCCTCCAAGAAAA  
 AGAAGAAATTCGCACGCCTTCTTTTCTCAAAAAGAACAAAAAAGGAGAAAGTTGAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG224700 representing NM\_001164101  
 Red=Cloning site Green=Tags(s)

```
MSSDTPSAVVTTPPPPSMPHKERYFDRINESDPEYLRRNMSPDLRQDFNMMEQRKRVTQILQSPAFRED
LECLIQEQQMKKGHNPSGLLALQQIADYIVTSSFSGFSSPSLSLGMVTPINDLPGADTSSYVKGEKLTRCK
LASLYRLADLFGWAHLANTYISVRISKEQDHIIIPRGLSFSEATASTLVKVNIIIGEVVDQGSTDLKIDH
TGFSPHAAIYSTRPDVKCVIHIHTLATAAVSSMKCGILPISQESLILGDVAYYDYQGSLEEEERIELQK
VLGPSCVKVLRNHGMVALGETLEEFHYIFNVQMACEIQVAVAGAGGVNDLLVLDLQKYKAFTHGVAM
SGGGGVNMASHQKWKVGEIEFEGLMRTLNDLGYRTGYAYRHPLVREKPRHKSDVEIPATVTAFFEDDSA
PLSPLKFMAQRQQREKTRWLNSPNTYMKVNVPEESRNGETSPRTKITWMKAEDSSKVSSGTPIKIEDPNQ
FVPLNTNPTEVLEKRNKIREQNRDYLKTAGPQSLLAGIVVDKPPSTMQFDDDDQPPAPPNPFSHLLEG
ELEEYTKTIERKQQGLDENHELFSKSFSTMDAPVMIMNGKDEMHDVEDELAQRVSRLTTSTTIENIEITI
KSPERTEEVLSPDGSPSKSPSKKKKKFRTPSFLKKNKKKEKVEA
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164101

**ORF Size:** 2022 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\\_001164101.2](#), [NP\\_001157573.1](#)

**RefSeq Size:** 4424 bp

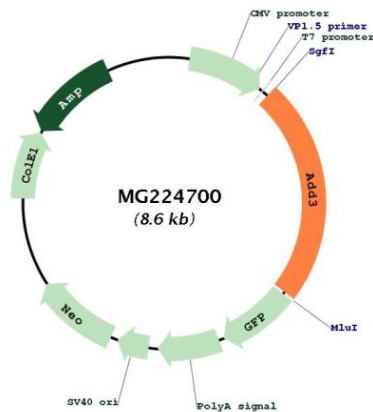
**RefSeq ORF:** 2025 bp

**Locus ID:** 27360

**Cytogenetics:** 19 47.18 cM

**Gene Summary:** Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Plays a role in actin filament capping. Binds to calmodulin.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG224700