

## Product datasheet for **MR220943**

### Add1 (NM\_001102444) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Add1 (NM_001102444) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Add1
Synonyms:	A1256389
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR220943 representing NM\_001102444  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATGGTGACACTCGGGCCGAGTGGTGACCTCACCACCTCCAACCACAGCCCCTCACAAGGAGAGGT  
 ATTTTGACAGAGTCGATGAGAACAACCCAGAATATTTGCGGGAGAGGAACATGGCACCAGACCTTGTCA  
 GGACTTCAATATGATGGAGCAGAAGAAGAGGGTGTCTATGATTCTACAGAGTCCTGCCTTCTGTGAAGAG  
 CTGGAGTCTATGATACAGGAACAGTTTAAAGAAGGGCAAGAACCCACAGGCCTGTGGCATTGCAGCAGA  
 TTGCAGATTTTCTGACTGCGAGTGTACCAATGTCTACCCGGCAGCTCCTCAAGGAGGAATGGCCGCCCT  
 GAACATGAGTCTTGGTATGGTCACTCCTGTGAATGACCTTAGAGGGTCCGATTCTATCGCATATGACAAA  
 GGGGAGAAATTACTGCGGTGAACTGGCAGCATTTTACAGACTGGCAGATCTCTTTGGCTGGTCCCAGC  
 TTATCTACAATCATATCACAACCAGAGTGAACCTGAGCAGGAACACTTCTCATCGTACCTTTTGGACT  
 TCTCTACAGTGAAGTACTGCATCCAGCTTGGTTAAGGTCAATCTACAAGGAGATATAGTAGACCGTGGAA  
 AGTACTAACCTAGGGGTGAATCAGGCGGGCTTCACTCTGCACTCGGCAGTGTATGCTGCGCGACCAGATG  
 CCAAGTGTATTGTGCACATCCACACCCAGCGGGGCGAGCGGTCTCTGCGATGAAGTGTGGACTCTTGCC  
 TATCTCCCGGAGGCACTTTCCCTTGGAGATGTTGCTTATCATGACTATCATGGCATTCTGGTTGATGAA  
 GAGGAAAAATTTTGATTGAGAAAAATCTGGGCCCTAAAAGCAAGGTCTCATTCTGCGGAATCACGGAC  
 TCGTGTCAAGTGGAGAGAGCGTGGAGGAGGCTTCTATTACATCCATAACCTTGTGGTTGCATGTGAGAT  
 CCAGGTTCCGACTCTGGCAAGTCTGGAGGACCAGACACTTATTCTGCTGGATCCTGGGAAGTACAAA  
 GCCAAATCCCGTTCTCCAGGGACTCCAGCAGGGGAAGGCTCTGGATCACCTCCCAAGTGGCAGATTGGGG  
 ACGAGGAATTTGAAGCTTTATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGTACCCTTATCGATA  
 CCCTGCTCTGAGAGAGAGATCTAAAAAGTACAGCGATGTGGAAGTCCCTGCCAGTGTACAGGCCACTCC  
 TTTGCTAGTGATGGCGATTCGGGCACTTCTCGCCGCTCAGGCACAGTTTTTCAGAAGCAGCAGCGAGAGA  
 AGACAAGATGGCTGCACTCTGGCCGGGTGATGACGCTTCTGAGGAGGGGCGAAGCAGTCCCAA  
 GTCGAAGACTAAGGTGTGGACGAACATTACACACGATCACGTGAAACCCTTGTGCACTCTCTCGTCC  
 GGTGTCTGCGTCCCAAGCTGTATTACCAACTGCTTGTGGACTAAAGAGGATGGACATAGAAGTCCACCT  
 CTGCTGTCCCTAACCTGTTTGTCCATTGAACACTAACCCAAAAGAGGTCCAGGAGATGAGGAACAAGAT  
 TCGAGAGCAGAACTTACAGGACATTAAGACGGCAGGACCTCAGTCCAGGTTTTGTGGTGTGATGATG  
 GACAGAAGCCTTGTTCAGGGGAGCTGGTGACGGCCTCAAAGCCATCATTGAGAAGGAATACCAGCCCC  
 ATGTAATTGTGAGCACCACAGGTCCCAACCCCTTCAACACGCTGACAGACCGTGAAGTGAAGAATACCG  
 ACGAGAGGTGGAGCGGAAGCAGAAGGGCTCTGAAGAGAACCTGGATGAGACAAGAGAGCAGAAAGAGAAG  
 AGTCTCCAGACCAGTCACTGTCCCAACACTCCTCCAGTACTCCTGTCAAGCTTGAAGAAGCAGGAG  
 ACGGATGTGCTAAAGGTACCTGTTACCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR220943 representing NM\_001102444  
 Red=Cloning site Green=Tags(s)

MNGDTRAAVVTSPPTTAPHKERYFDRVDENNPEYLRRNMAPDLRQDFNMMEQKKRVSMILQSPAFCEE  
 LESMIQEYFKGKNPTGLLLALQQIADFMTASVNVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDK  
 GEKLLRCKLAIFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKVNLRQGDIVDRG  
 STNLGVNQAGFTLHSAVYAARPDACIVHIHTPAGAAVSAMKCGLLPISPEALSLGDVAYHDYHGILVDE  
 EEKILIQKNLGPVSKVLILRNHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLDPGKYK  
 AKSRSPGTPAGEGSGSPPKWQIGEQEFEALMRMLDNLGYRTGYPYRYPALRERSKKYSDVEVPASVTGHS  
 FASDGDSGTCSPLRHSFQKQREKTRWLHSGRGGDASEEGQNGSSPKSKTKVWNTNITHDHYKPLLQSLSS  
 GVCVPSCITNCLWTKEDGHRTSTSAVPLFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVM  
 DRSLVQGELVTASKAIIKEYQPHVIVSTTGNPFNTLTDRELEEYRREVERKQKGEENLDETREQKEK  
 SPPDQSAVPNTPPSTPVKLEEAGDGAKEYLLP

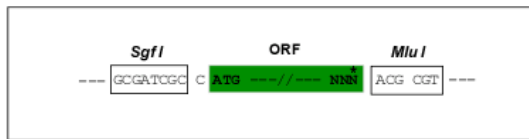
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

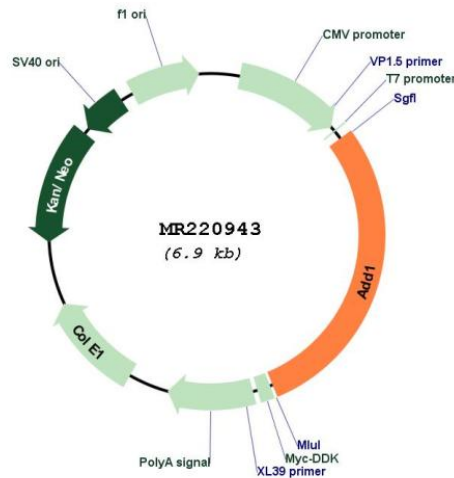
**Cloning Scheme:**

Sgfl-MluI

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001102444

**ORF Size:** 1989 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\\_001102444.2](#)

RefSeq Size:	4047 bp
RefSeq ORF:	1992 bp
Locus ID:	11518
UniProt ID:	<a href="#">Q9QYC0</a>
Cytogenetics:	5 17.9 cM
MW:	73.7 kDa
Gene Summary:	Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to calmodulin.[UniProtKB/Swiss-Prot Function]