

## Product datasheet for **MC228316**

### Add2 (NM\_001271860) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Add2 (NM_001271860) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Add2
Synonyms:	2900072M03Rik; add97
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228316 representing NM\_001271860  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGAGGACACGGTCCCGAGGCGGCCTCCCGCCACCCTCTCAGGGGCAGCACTACTTTGACCGGT  
 TCTCTGAAGATGATCCTGAGTACTTGCGACTTCGCAACCGTGCAGCTGACCTGCGACAGGACTTCAACTT  
 GATGGAGCAGAAGAAGAGGGTACCATGATCCTGCAGAGCCCTTCTTTCAGGGAGGAGCTGGAAGGCCTC  
 ATCCAGGAGCAAATGAAGAAGGGCAACAACTCCTCCAACATCTGGGCCCTCCGACAGATCGCGGACTTCA  
 TGGCCAGCACCTCCACGCAGTCTTCCAGCTTCTCCATGAACTTCTCCATGATGACACCCATCAACGA  
 CCTCCACACTGCCGACTCCCTGAACCTGGCCAAGGGGAGAGGCTTATGCGGTGCAAGATCAGCAGCGTC  
 TACCGTCTCTGGACCTCTACGGCTGGGCGCAGCTCAGTGACACCTACGTACGCTGAGAGTGAGCAAGG  
 AGCAGGACCACTTCTGATCAGCCCAAGGGGTTTCTGCAGCGAGGTACAGCCTCCAGCCTGATTAA  
 AGTGAACATTCTGGGAGAGGTGGTGGAGAAGGGCAGCAGTTGCTTCCCGTGGACACCACGGGCTTCACT  
 CTGCACTCAGCCATCTATGCCGCCAGGCCGACGTGCGGTGTGCCATCCACTGCACACGCTGCCACCG  
 CAGCGGTGTCAGCTATGAAGTGGCGCTCCTGCCGGTCTCCCATAAATGCCCTGCTGGTGGGGGACATGGC  
 CTAATGACTTCAATGGGAAAATGGAGCAGGAAGCTGACCGAATCAACTTGCAGAAGTGCCTTGGACCC  
 ACCTGCAAGATTCTGGTCTAAGAAACCATGGCATGGTCGCCCTGGGTGACACCGTGGAGGAAGCTTTCT  
 ACAAGGTCTTCCATCTGCAGGCTGCGTGTGAGGTACAGGTGTGCGCTCTGTCCAGTGTGGGGGCACTGA  
 GAACCTCATCTTGGAGCAAGAGAAACACCGGCCGACGAGGTGGGCTCTGTGCAGTGGGCCGCGCAGC  
 ACCTTCGGGCCCATGCAGAAGAGCCGGCTGGGAGAGCATGAATTTGAAGCCCTCATGAGGATGCTGGACA  
 ATTTAGGCTACAGAACAGGCTATACGTACCGCCACCCCTTTTCCAAGAGAAAACCAACACAAAAGTGA  
 AGTGGAGATCCCAGCCACAGTCACTGCCTTTGTGTTTGAAGAGGATGGAGTCCAGTCCCGGCCCTGCGC  
 CAGCACGCCCAGAAGCAGCAGAAGGAAAAGACCCGCTGGCTTAACACTCCCAACCTACCTGCGGGTGA  
 ACGTGGCTGACGAGGTGCAGAGGAACATGGGCAGTCCCGACCAAGACCACGTGGATGAAGGCTGATGA  
 AGTGGAAAAGTCCAGCAGCGGCATGCCCATACGGATTGAAAACCAACCAATTTGTGCCTCTCTACACT  
 GACCCCAAGAAAGTTCTGGACATGAGGAACAAGATTCGAGAGCAAAACCGACAAGACATAAAGTCAGCCG  
 GGCTCAGTCTCAGCTCTGGCCAGTGTATCGCAGAGAAGAGCCGGAGTCCGGTACAGCAGAGACTGCC  
 CCCAACCGAAGGGGAAGTGTATCAGACTCTGGGCTGGGCAGGGGACCCCTGAGTCTCAGGCCCGCTC  
 ACCCATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001271860
- Insert Size:** 1689 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001271860.1](#), [NP\\_001258789.1](#)

**RefSeq Size:** 3497 bp

**RefSeq ORF:** 1689 bp

**Locus ID:** 11519

**UniProt ID:** [Q9QYB8](#)

**Cytogenetics:** 6 37.55 cM

**Gene Summary:** This gene encodes the beta subunit of the adducin family. Adducins, encoded by alpha, beta and gamma genes, are heteromeric proteins that crosslink actin filaments with spectrin at the cytoskeletal membrane. This protein, primarily found in the brain and hematopoietic cells, is regulated by phosphorylation and calmodulin interactions as it promotes spectrin assembly onto actin filaments, bundles actin and caps barbed ends of actin filaments. In mouse, deficiency of this gene can lead to mild hemolytic anemia and impaired synaptic plasticity. Mutations of this gene in mouse serve as a pathophysiological model for hereditary spherocytosis and hereditary elliptocytosis. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Dec 2012]  
Transcript Variant: This variant (5) lacks several 3' exons and contains an alternate 3' exon, and thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1. Both variants 5 and 6 encode the same isoform (2, also known as beta-2).