

## Product datasheet for **MC218134**

### Add2 (BC053032) Mouse Untagged Clone

#### Product data:

|                    |                                      |
|--------------------|--------------------------------------|
| Product Type:      | Expression Plasmids                  |
| Product Name:      | Add2 (BC053032) 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: >BC053032  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGCGAGGACACGGTCCCGAGGCGGCCTCCCGCCACCCTCTCAGGGGCAGCACTACTTTGACCGGT  
TCTCTGAAGATGATCCTGAGTACTTGCAGCTTCGCAACCGTGCAGCTGACCTGCGACAGGACTTCAACTT  
GATGGAGCAGAAGAAGAGGGTCACCATGATCCTGCAGAGCCCTTCTTTCAGGGAGGAGCTGGAAGGCCTC  
ATCCAGGAGCAAATGAAGAAGGGCAACAACTCCTCCAACATCTGGGCCCTCCGACAGATCGCGGACTTCA  
TGGCCAGCACCTCCACGCAGTCTTCCAGCTTCTCCATGAACTTCTCCATGATGACACCCATCAACGA  
CCTCCACACTGCCGACTCCCTGAACCTGGCCAAGGGGAGAGGCTTATGCGGTGCAAGATCAGCAGCGTC  
TACCGTCTCTGGACCTACGGCTGGGCGCAGCTCAGTGACACCTACGTACGCTGAGAGTGAGCAAGG  
AGCAGGACCCTTCTGATCAGCCCAAGGGGTTTCTGCAGCGAGGTACAGCCTCCAGCCTGATTAA  
AGTGAACATTCTGGGAGAGGTGGTGGAGAAGGGCAGCAGTTGCTTCCCGTGGACACCACGGGCTTCA  
CTGCACTCAGCCATCTATGCCGCCAGGCCGACGTGCGGTGTGCCATCCACTGCACACGCTGCCACCG  
CAGCGGTGTCAGCTATGAAGTGGCGCTCCTGCCGGTCTCCCATAAATGCCTGCTGGTGGGGGACATGGC  
CTACTATGACTTCAATGGGAAAATGGAGCAGGAAGCTGACCGAATCAACTTGCAGAAGTGCCTTGGACCC  
ACCTGCAAGATTCTGGTCTAAGAAACCATGGCATGGTCGCCCTGGGTGACACCGTGGAGGAAGCTTTCT  
ACAAGGTCTTCCATCTGCAGGCTGCGTGTGAGGTACAGGTGTGCGCTCTGTCCAGTGTGGGGGCACTGA  
GAACCTCATCTTGGAGCAAGAGAAACACCGGCCGACGAGGTGGGCTCTGTGCAGTGGGCCGCGCAGC  
ACCTTCGGGCCCATGCAGAAGAGCCGGCTGGGAGAGCATGAATTTGAAGCCCTCATGAGGATGCTGGACA  
ATTTAGGCTACAGAACAGGCTATACGTACCGCCACCCCTTTGTCCAAGAGAAAACCAACAAAAAGTGA  
AGTGGAGATCCCAGCCACAGTCACTGCCTTTGTGTTGAAGAGGATGGAGTCCCAGTCCCCGCCCTGCGC  
CAGCACGCCCAGAAGCAGCAGAAGGAAAAGACCCGCTGGCTTAACACTCCCAACCTACCTGCGGGTGA  
ACGTGGCTGACGAGGTGCAGAGGAACATGGGCAGTCCCCGACCAAGACCACGTGGATGAAGGCTGATGA  
AGTGGAAAAGTCCAGCAGCGGCATGCCATACGGATTGAAAACCAACCAATTTGTGCCTCTTACACT  
GACCCCCAGGAAGTTCTGGACATGAGGAACAAGATTCGAGAGCAAAACCGACAAGACATAAAGTCAGCCG  
GGCCTCAGTCTCAGCTCTGGCCAGTGTATCGCAGAGAAGAGCCGGAGTCCGGTACAGCAGAGACTGCC  
CCCAACCGAAGGGGAAGTGTATCAGACTCTGGGCTGGGCAGGGGACCCCTGAGTCTCAGGCCCGCTC  
ACCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC053032

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).

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:** [BC053032](#), [AAH53032](#)

**RefSeq Size:** 3431 bp

**RefSeq ORF:** 1688 bp

**Locus ID:** 11519

**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]