

Product datasheet for **MC228781**

Add2 (NM_001271859) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Add2 (NM_001271859) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Add2
Synonyms:	2900072M03Rik; add97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228781 representing NM_001271859
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGAGGACACGGTCCCGAGGCGGCCTCCCGCCACCCTCTCAGGGGCAGCACTACTTTGACCGGT
 TCTCTGAAGATGATCCTGAGTACTTGCAGCTTCGCAACCGTGCAGCTGACCTGCGACAGGACTTCAACT
 GATGGAGCAGAAGAAGAGGGTACCATGATCCTGCAGAGCCCTTCTTTCAGGGAGGAGCTGGAAGCCCTC
 ATCCAGGAGCAAATGAAGAAGGGCAACAACTCCTCCAACATCTGGGCCCTCCGACAGATCGCGGACTTCA
 TGGCCAGCACCTCCACGCAGTCTTCCAGCTTCTCCATGAACCTCTCCATGATGACACCCATCAACGA
 CCTCCACACTGCCGACTCCCTGAACCTGGCCAAGGGGAGAGGCTTATGCGGTGCAAGATCAGCAGCGTC
 TACCGTCTCTGGACCTACGGCTGGGCGCAGCTCAGTGACACCTACGTACGCTGAGAGTGAGCAAGG
 AGCAGGACCACTTCTGATCAGCCCAAGGGGTTTCTGCAGCGAGGTACAGCCTCCAGCCTGATTAA
 AGTGAACATTCTGGGAGAGGTGGTGGAGAAGGGCAGCAGTTGCTTCCCGTGGACACCACGGGCTTCAGT
 CTGCACTCAGCCATCTATGCCGCCAGGCCCGACGTGCGGTGTGCCATCCACTGCACACGCTGCCACCG
 CAGCGGTGTCAGCTATGAAGTGGGCTCCTGCCGGTCTCCCATAAATGCCCTGCTGGTGGGGACATGGC
 CTAATGACTTCAATGGGAAATGGAGCAGGAAGCTGACCGAATCAACTTGCAGAAGTGCTTGGACCC
 ACCTGCAAGATTCTGGTCTAAGAAACCATGGCATGGTCGCCCTGGGTGACACCGTGGAGGAAGCTTTCT
 ACAAGGTCTTCCATCTGCAGGCTGCGTGTGAGGTACAGGTGTGCGCTCTGTCCAGTGTGGGGGCACTGA
 GAACCTCATCTTGGAGCAAGAGAAACACCGGCCGACGAGGTGGGCTCTGTGCAGTGGGCCGCGCAGC
 ACCTTCGGGCCCATGCAGAAGAGCCGGCTGGGAGAGCATGAATTTGAAGCCCTCATGAGGATGCTGGACA
 ATTTAGGCTACAGAACAGGCTATACGTACCGCCACCCCTTTGTCCAAGAGAAAACCAACAAAAAGTGA
 AGTGGAGATCCCAGCCACAGTCACTGCCTTTGTGTTTGAAGAGGATGGAGTCCCAGTCCCCGCCCTGGC
 CAGCACGCCCAGAAGCAGCAGAAGGAAAAGACCCGCTGGCTTAACACTCCCAACCTACCTGCGGGTGA
 ACGTGGCTGACGAGGTGCAGAGGAACATGGGCAGTCCCGACCAAGACCACGTGGATGAAGGCTGATGA
 AGTGGAAAAGTCCAGCAGCGGCATGCCATACGGATTGAAAACCAACCAATTTGTGCCTCTCTACACT
 GACCCCAAGAAAGTTCTGGACATGAGGAACAAGATTCGAGAGCAAAACCGACAAGACATAAAGTCAGCCG
 GGCTCAGTCTCAGCTCTGGCCAGTGTATCGCAGAGAAGAGCCGGAGTCCGTCTACAGAGAGCCAGCT
 GATGTCCAAGGGCGATGCAGATACAAAGATGAATCGGAGGAGACGGTGCCCAACCCCTTCAGCCAACTC
 ACTGACCAGGAGCTGGAGGAGTACAAGAAGGAGGTGAAAAGGAAGAAGCTAGAACAGGAGCAGGAAGGGG
 AGAAGGACATAGCCACAGAGAAGCCTGGTTACCTGTAAAGTCCACACCTGCATCCCCAGTGCAGAGCCC
 ATCAAAAGCCGGGACCAAGAGCCAGCGGTCTCTCCTTCCAAGACTTCAGAGGATACCAAGAAGACAGAA
 GTCAGCGAAGCCAACACAGAGCCTGAGCCAGTGAACACAGAAGGGCTGGTGGTGAATGGGAAGGAGGAGG
 AGCCGAGCGTAGAAGAGGCCCTCAGCAAAGGACTGGGCCAGATGACCACCAACGCTGACACTGATGGCGA
 CAGCTACAAGGACAAAACCGAGTCAGTTACCAGTGGCCCTTGTCCCCAGAGGGCTCGCCCTCTAAGTCA
 CCCTCCAAAAAGAAAAAGAAATCCGAACCCCTCGTTCTCTGAAGAAAAGCAAGAAGAAGGAGAAGGTGG
 AATCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271859

Insert Size: 2178 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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001271859.1</u> , <u>NP_001258788.1</u>
RefSeq Size:	8006 bp
RefSeq ORF:	2178 bp
Locus ID:	11519
UniProt ID:	<u>Q9QYB8</u>
Cytogenetics:	6 37.55 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same isoform (1, also known as beta-1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>