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Product datasheet for MC228317

Add2 (NM_001271861) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Add2 (NM_001271861) 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:

>MC228317 representing NM_001271861
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGAGGACACGGTTCCCGAGGCGGCCTCCCCGCCACCCTCTCAGGGGCAGCACTACTTTGACCGGT
TCTCTGAAGATGATCCTGAGTACTTGCGACTTCGCAACCGTGCAGCTGACCTGCGACAGGACTTCAACTT
GATGGAGCAGAAGAAGAGGGTCACCATGATCCTGCAGAGCCCTTCTTTCAGGGAGGAGCTGGAAGGCCTC
ATCCAGGAGCAAATGAAGAAGGGCAACAACTCCTCCAACATCTGGGCCCTCCGACAGATCGCGGACTTCA
TGGCCAGCACCTCCCACGCAGTCTTCCCAGCTTCTTCCATGAACTTCTCCATGATGACACCCATCAACGA
CCTCCACACTGCCGACTCCCTGAACCTGGCCAAGGGGGAGAGGCTTATGCGGTGCAAGATCAGCAGCGTC
TACCGTCTCCTGGACCTCTACGGCTGGGCGCAGCTCAGTGACACCTACGTCACGCTGAGAGTGAGCAAGG
AGCAGGACCACTTCCTGATCAGCCCCAAGGGGGTTTCCTGCAGCGAGGTCACAGCCTCCAGCCTGATTAA
AGTGAACATTCTGGGAGAGGTGGTGGAGAAGGGCAGCAGTTGCTTCCCGGTGGACACCACGGGCTTCAGT
CTGCACTCAGCCATCTATGCCGCCAGGCCCGACGTGCGGTGTGCCATCCACCTGCACACGCCTGCCACCG
CAGCGGTGTCAGCTATGAAGTGCGGCCTCCTGCCGGTCTCCCATAATGCCCTGCTGGTGGGGGACATGGC
CTACTATGACTTCAATGGGGAAATGGAGCAGGAAGCTGACCGAATCAACTTGCAGAAGTGCCTTGGACCC
ACCTGCAAGATTCTGGTGCTAAGAAACCATGGCATGGTCGCCCTGGGTGACACCGTGGAGGAAGCTTTCT
ACAAGGTCTTCCATCTGCAGGCTGCGTGTGAGGTACAGGTGTCGGCTCTGTCCAGTGCTGGGGGCACTGA
GAACCTCATCCTCTTGGAGCAAGAGAAACACCGGCCGCACGAGGTGGGCTCTGTGCAGTGGGCCGGCAGC
ACCTTCGGGCCCATGCAGAAGAGCCGGCTGGGAGAGCATGAATTTGAAGCCCTCATGAGGATGCTGGACA
ATTTAGGCTACAGAACAGGCTATACGTACCGCCACCCCTTTGTCCAAGAGAAAACCAAACACAAAAGTGA
AGTGGAGATCCCAGCCACAGTCACTGCCTTTGTGTTTGAAGAGGATGGAGTCCCAGTCCCCGCCCTGCGC
CAGCACGCCCAGAAGCAGCAGAAGGAAAAGACCCGCTGGCTTAACACTCCCAACACCTACCTGCGGGTGA
ACGTGGCTGACGAGGTGCAGAGGAACATGGGCAGTCCCCGACCAAAGACCACGTGGATGAAGGCTGATGA
AGTGGAAAAGTCCAGCAGCGGCATGCCCATACGGATTGAAAACCCAAACCAATTTGTGCCTCTCTACACT
GACCCCCAGGAAGTTCTGGACATGAGGAACAAGATTCGAGAGCAAAACCGACAAGACATAAAGTCAGCCG
GGCCTCAGTCTCAGCTCTTGGCCAGTGTCATCGCAGAGAAGAGCCGGAGTCCGGTACAGCAGAGACTGCC
CCCAACCGAAGGGGAAGTGTATCAGACTCCTGGGGCTGGGCAGGGGACCCCTGAGTCCTCAGGCCCGCTC
ACCCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271861

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).

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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_001271861.1, NP_001258790.1
RefSeq Size:	3298 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 (6) differs in the 5' UTR, 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). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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