

## Product datasheet for **RC207895**

### Adducin 2 (ADD2) (NM\_017488) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adducin 2 (ADD2) (NM_017488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adducin 2
Synonyms:	ADDB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC207895 representing NM\_017488  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGAAGAGACGGTCCCCGAGGCTGCCTCGCCGCCGCCCCCGCAGGGGCAGCCTTACTTTGACCCT  
 TCTCAGAGGACGACCCCGAGTACATGCGCTTCGCAACCGGGCGGCGACCTGCGGCAGGACTTCAACCT  
 GATGGAGCAGAAGAAGCGCGTCACCATGATCCTGCAGAGTCCCTCTTTACGGGAGGAGCTGGAAGGCCTC  
 ATCCAGGAGCAGATGAAGAAGGGGAACAACTCCTCCAACATCTGGGCCCTGCGACAGATCGCGGACTTCA  
 TGGCCAGCACCTCCACGCAGTCTTCCGACATCTTCCATGAATGTCTCCATGATGACGCCTATCAATGA  
 CCTCCACACAGCTGACTCCCTGAACCTGGCCAAAGGGGAGCGGCTCATGCGGTGCAAGATCAGCAGTGTC  
 TACCGACTCCTGGACCTCTATGGCTGGGCCAGCTGAGTGACACCTATGTCACGTTGAGAGTCAGCAAGG  
 AGCAGGACCACTTCTGATCAGCCCTAAGGGAGTTTCTTGCAGTGAAGTACAGCGTCCAGCCTGATCAA  
 GGTGAACATTCTGGGAGAGGTGGTGGAGAAGGGCAGCAGCTGCTTCCAGTGGACACCACAGGCTTCTGT  
 CTGCACTCGGCCATCTATGCAGCGAGGCCCGACGTGCGCTGCATCATCCACCTGCACACACCGGCCACAG  
 CAGCGGTGTCGGCCATGAAGTGGGGCTCCTGCCTGTCTCCACAAATGCCTGCTGGTGGGGGACATGGC  
 CTATTATGACTTCAATGGGGAAATGGAGCAGGAAGCCGATCGGATCAACCTGCAGAAGTGCTTGGACCC  
 ACCTGCAAGATCCTGGTCTAAGAAACCATGGAGTGGTTGCTCTGGGTGACACGGTAGAGGAGGCATTTT  
 ACAAGATCTTCCACCTGCAGGCTGCATGTGAGATACAGGTGTGGCTCTGTCCAGTGCAGGGGGAGTGGA  
 GAACCTCATCCTCTGGAGCAGGAGAAGCACCGGCCCATGAGGTGGGCTCCGTGCAGTGGGCCGGGAGC  
 ACCTTTGGGCTATGCAGAAGAGTCGGCTGGGGGAGCATGAGTTTGAGGCCCTCATGAGGATGCTGGACA  
 GGTGGAGATTCCAGCCACGGTCACAGCCTTCGTGTTTGAGGAGGACGGTGCCCGGTGCCCGCCTGCGA  
 CAGCATGCCCAGAAGCAGCAGAAGGAGAAGACCCGCTGGCTCAATACGCCCAACACCTACCTGCGGGTCA  
 ATGTGGCCGATGAGGTCCAGAGGAGCATGGGCAGCCCCGACCCAAGACCACGTGGATGAAGGCTGACGA  
 GGTGGAGAAATCCAGCAGTGGCATGCCGATTTCGCATCGAAAACCAAAACCAATTTGTGCCTCTCTACT  
 GACCCCAAGGAACTACTGGAGATGAGGAACAAGATTCGAGAACAACCAAGCAAGATGTGAAGTCAAGCG  
 GGCTCAGTCCCAGCTCCTGGCGAGCGTATTGCCGAGAAGGCCGAAGCCCGTCTACAGAGAGCCAGCT  
 GATGTCCAAGGGAGACGAGGATACCAAAGACGATTGAGAGGAGACGGTGCCCAACCCCTTACGCCAACTC  
 ACTGACCAGGAGTTGGAGGAGTACAAGAAAGAGGTGGAGAGGAAGAACTAGAATTTGATGAGACAGGAC  
 AGGAACGAGAGCCAGGCTCTGGTCCGGCGTGTGCGAGTTCTTCAGCGTTGCCCTCCACATCTGGAGTAA  
 CATATTGGAGAGAAAGAACTGCCCCAGAAGAGCCTGGCTCACCTGCAAAGTCTGCACCTGCTTCTCCAG  
 TGCAGAGCCCAGCGAAGGAGGCAGAGACAAGAGCCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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\\_017488.4](#)

**RefSeq Size:** 4043 bp

**RefSeq ORF:** 1932 bp

**Locus ID:** 119

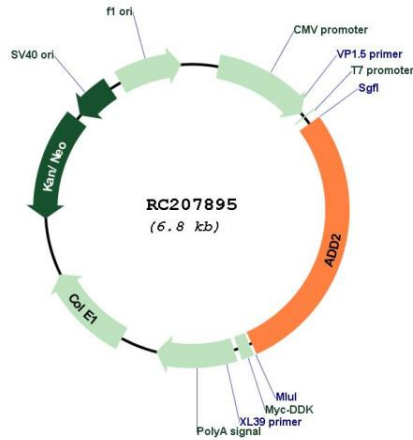
**UniProt ID:** [P35612](#)

**Cytogenetics:** 2p13.3

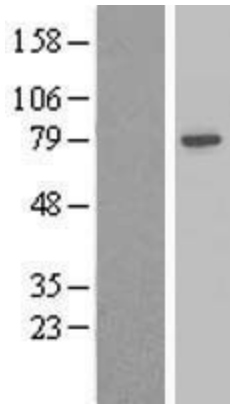
**MW:** 72.5 kDa

**Gene Summary:** Adducins are heteromeric proteins composed of different subunits referred to as adducin alpha, beta and gamma. The three subunits are encoded by distinct genes and belong to a family of membrane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sites of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously expressed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associated with the regulation of blood pressure in an animal model of hypertension. Heterodimers consisting of alpha and gamma subunits have also been described. Structurally, each subunit is comprised of two distinct domains. The amino-terminal region is protease resistant and globular in shape, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphorylation sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jun 2010]

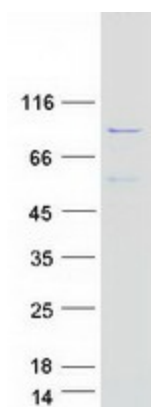
Product images:



Circular map for RC207895



Western blot validation of overexpression lysate (Cat# [LY413769]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207895 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADD2 protein (Cat# [TP307895]). The protein was produced from HEK293T cells transfected with ADD2 cDNA clone (Cat# RC207895) using MegaTran 2.0 (Cat# [TT210002]).