

Product datasheet for **RN200529**

Add2 (NM_012491) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Add2 (NM_012491) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Add2
Synonyms:	beta-ADD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200529 representing NM_012491
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGAGGACACGGTCCCCGAGGCAGCCTCACGCCACCCTCTCAGGGGCAGCACTACTTTGACCGGT
 TCTCTGAGGATGACCCTGAATACTTGCAGCTTCGCAACCGTGCAGCTGACCTGCGACAAGACTTCAACCT
 GATGGAGCAGAAGAAACGGGTACCATGATCCTGCAGAGCCCTTCTTTCAGGGAGGAGCTGGAAGGCCTC
 ATCCAGGAACAGATGAAGAAGGGTAACAACCTCCAACATCTGGGCCCTCCGACAGATCGCGGACTTCA
 TGGCCAGCACCTCCACGCAGTCTCCAGCTTCTCCATGAACCTTCCATGATGACACCCATCAATGA
 CCTCCACACTGCCGACTCCCTGAACCTGGCCAAGGGGAGAGGCTTATGCGGTGCAAGATCAGCAGTGTC
 TACCGTCTTGGACCTCTATGGCTGGGCGCAGCTCAGCGACACCTATGTCAGCTGAGAGTGAGCAAGG
 AGCAGGACCACTTCTGATCAGCCCCAAAGGGTTTCTGCAGTGAGGTACGGCATCCAGCCTGATTAA
 GGTGAACATTCTAGGAGAGGTCTGGAGAAGGGCAGCAGTTGCTTCCAGTGGACACCACCGGCTTCACT
 CTGCACTCAGCCATCTATGCGGCCAGGCCGACGTGCGGTGTGCCATCCACCTGCACACGCTGCCACAG
 CAGCGGTGTCAGCTATGAAGTGTGGCCTCTGCCTGTCTCCCATAAATGCCCTGCTGGTGGGGGACATGGC
 CTAATATGACTTCAATGGGAAAATGGAGCAGGAAGCTGATCGAATCAACTTGCAGAAGTGCCCTGGACCC
 ACCTGCAAGATTCTGGTCTAAGAAACCATGGTATGGTCGCCCTGGGTGACACCGTGGAGGAAGCTTTCT
 ACAAGGTCTTCCACCTGCAGGCTGCGTGTGAGGTACAGGTGTGCGCTCTGTCCAGCGCTGGGGGACCGA
 GAACCTCATCTCTGGAGCAAGAGAACCCGCTCCGATGAGGTGGGCTCTGTGCAGTGGGCCGGCAGC
 ACCTTTGGGCCATGCAGAAGAGCCGGCTGGGAGAGCATGAATTTGAAGCCCTCATGAGGATGCTCGACA
 ACTTAGGCTACAGAACAGGTATACGTACCGCCACCCCTTCCGCAAGAGAAAACCAACACAAAAGTGA
 AGTGGAGATCCCAGCCACGGTCACTGCCTTTGTGTTTGAAGAGGATGGTGTCCAGTCCCTGCTCTGCGC
 CAGCACGCCAAAAGCAGCAGAAGGAAAAGACCCGCTGGCTTAACACTCCAACACCTACCTGAGGGTGA
 ATGTGGCCGACGAGGTGCAGAGGAACATGGGCAGTCCCCGACCGAAGACCACGTGGATGAAGGCTGATGA
 AGTGGAAAAGTCCAGCAGCGGCATGCCATACGGATTGAAAACCAACCAATTTGTGCCTCTTACACT
 GACCCCAAGAAGTGTGGACATGAGGAACAAGATTCGAGAACAAAACCGACAAGATATAAAGTCAGCCG
 GGCTCAGTCTCAGCTCTGGCCAGCGTCATCGCCGAGAAGAGCCGGAGTCCGGTACAGCAGAGACTGCC
 CCCAACTGAAGGGGAAGCTTATCAGACTCTGGGCTGGGCAGGGGACCCCTGAGTCTCAGGCCCACTC
 ACCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012491
- 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: [NM_012491.2](#), [NP_036623.1](#)

RefSeq Size: 3268 bp

RefSeq ORF: 1689 bp

Locus ID: 24171

UniProt ID: [Q05764](#)

Cytogenetics: 4q34

Gene Summary: plays a role in membrane ion transport; variation is associated with blood pressure variation in the Milan hypertensive strain [RGD, Feb 2006]
Transcript Variant: This variant (2) contains a distinct 3' UTR and lacks a portion of the 3' coding region, compared to variant 1. The resulting isoform (b) has a shorter, unique C-terminus when compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because transcript sequence consistent with the reference genome assembly was not available for all regions of the RefSeq transcript. The extent of this transcript is supported by transcript alignments.