

## Product datasheet for **RR208959**

### Adam2 (NM\_020077) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam2 (NM_020077) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adam2
Synonyms:	Ftnb; PH-30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR208959 representing NM\_020077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCATGTGGCTCCTCTTCTGCTGAGTGGGCTGAGTAGACTTGGAGGGCTTAGCGAGCCCCAAA  
 CAGAAGGCACTCGTGAGAAATTACACGTGCAAGTCACGGTGCCAGAGAAAATCCGGTCCATCACAAGTGA  
 AGGCTACGAAACACAGGTGACCTACAGTCTCAAAATCGAAGGAAAACATACATCCTGAACCTAATGCAA  
 AAAGCGTTCTTGCCCTCCCAACTTTAGAGTCTACAGCTATGACAGCACAGGGATCATGAGGCCTCTTGAGC  
 AGAAGTTTCAGAAATCTGCTACTTCCAAGGATACATTGAAGGTTATCCAAATCTATGGTGATTGTAG  
 CACATGTACTGGACTCAGGGGAGTACTTCAGTTTGGAAACGTTAGCTACGGAATTGAACCCCTGGAATCT  
 TCCAGTGGTTTTGAACATGTAATCTACCAAGTGGAACTAAGAAAGGAGACACATTACTCTATGCCGAGA  
 AGGATATGGATTTAAGAGACCCGAGTAAAGATACGAAGTATCAAGCCTCAGCGAACCGTCTCGACTA  
 TCTGGAATACACATTGTAGTTGAAAAGCAGATGTTTGGCATATTGGGGCTGATACAGCTGTTGCTACT  
 CAAAAGATTTTCCAGTTGATTGGACTGACAAATGCTATCTTTGCCCCCTTAATCTTACAGTAATTTCTGT  
 CTTCCCTGGAATTTTGGATGGACGAAAACAAAATCTCGACCACGGGTGATGCTAACAAAGTTGCTGTACAG  
 GTTCTGAAGTGGAAACAGTCGTACCTCGTTCTGCGACCACATGACATGGCGTTTTTACTCGTCTACAGG  
 GACACCACTGATTATGTTGGCGCCACCTATCAAGGGAAGATGTGTGACAAGAAGTATGCAGGAGGCGTTG  
 CTCTGCACCCCAAAGCCGTAACCTCTGGAATCACTTGAATATTTTAGTTCAGCTGCTGAGCCTCAGCAT  
 GGGGTGCGCATATGACGATGTGAACACGTGCCAGTGGGAGTACCCATCTGCGTGATGAACCCCGAAGCA  
 CTTTATTCCAGCGGTGTGAGGTCCTTCACTAAGTGCAGCATGGAGGACTTCTCCAAGTTTATCGTAAGTC  
 AAAGTCCCACCTGTCTTCAAGAACCCACACCTACAGCCGTGTCACAAGATGGCAGCTGTGGAAATGG  
 AGAGTTGGAAGAAGGAGAAGTTTGGCACTGTGGACAGGAGGGCTGTGACGATAAGCCTCCTCCATGCTGT  
 AATCCCACCACCTGTGAGTGTGAGAGGCTCCACTTGTCCACCAGGAAAGTTGCTGCGACGCTTCGTGCA  
 ATCTGAAGGCAAAAGGGAACTTTGAGGCCTGCCAATCAGGAATGTGACGTACAGAGTACTGCAACGG  
 CACTTCCGAAGTGTGGAAGAAGACTTCTTTGTTCAAGACGGTCACCCATGTGACAGAACAGAAGTGGATC  
 TGTATTAATGGCACCTGTGAGTGGAGCACAGCAGTCCCGGATCTGTTTGGCACTGATGCAGACTATG  
 GTACAAAAGAATGTTACTCGGAGCTGAATTCAAAAGTACATATCTGGGAGCTGCGGTATCACTCCTAC  
 GGGGTACAAGGACTGCGCACCTAATGACCGGATGTGTGAAAACATAATATGTATATACAAAAGTGAAGAC  
 ATACTTAAAATGAGGTCTGCCATTGTTATCTATGCCAATAAAGCGGGCAAACTGCATCTCCCTGGAAT  
 ACCCCCCAGGTCACAAAGAGAGCAAGAAGATGTGTGTGAGAGATGGAAGTGTCTGCGGGTCAGGGAAGGT  
 TTGCTTGAATCAAGAGTGTGTAGAAGATACTTTCTTGAATATGATTGCACCCCGAAAAATGCAACCAC  
 CATGGGGTATGTAATAACAAGAAGCATTGCCACTGTGAGCCCACATACTTACCTCCGGATTGAAAAATA  
 CGGAGGATACATGGCCTGGTGGGAGCGTTGACAGTGGCAACCAGCAACGGGCTGAATCCATCCCTGCACG  
 GTCCTATGTTGCAAGTGCCTACCGCTCCAAGTCTGCAAGGTGGCCATTTTCTGATCATCCCTTTCTAC  
 GTGGTATCCTTGTCTGATCGGCATGCTGGTAAAAGTCTATTTCCAAAGAAAAAATGGAGAATGGATG  
 ACTTCTCAAGTGAAGAACAATTTGAAAGTAAAAGTGAATCCAAAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR208959 representing NM\_020077  
Red=Cloning site Green=Tags(s)

```
MAMWLLLLLLSGLSRLGGLSEPQTEGREKLHVQVTVPEKIRSIITSEGYETQVTYSLKIEGKTYILNLMQ
KAFLLPNNFRVYSYDSTGIMRPLEQKFQNICYFQGYIEGYPNSMIVSTCTGLRGLVQFGNVSYGIEPLES
SSGFEHVIYQVEPKKGD TLLYAEKDMDLRDPQYKIRSIKQRTVSHYLEIHIVVEKQMFHEIGADTAVVT
QKIFQLIGLTNAIFAPFNLTVILSSLEFWMDENKISTTGDANKLLYRFLKWKQSYLVLRPHDMAFLLVYR
DTTDYVGATYQGMCDKNYAGGVALHPKAVTLESLAIIILVQLLSMGVAYDDVNTCQCGVPICVMNPEA
LHSSGVRFSNCSMEDFSKFIVSQSSHCLQNQPHLQPSYKMAVCGNGELEEEGVCDCGQEGCDDKPPPCC
NPTTCQLSEGSTCSTGSCCDASCNLKAKGELCRPANQECVTEYCNVTSEVCEEDFFVQDGHPCAQEKWI
CINGTCQSGAQQCRDLFGTDADYGTKECYSELNSKSDISGSCGITPTGYKDCAPNDRMCGKLICIIYQSED
ILKMRSAIVIIYANISGQICISLEYPPGHKESKKMCVRDGTVCSGKVCNLNQCVEDTFLNYDCTPEKCNH
HGVCNNKHCHCEPTYLPPDCKNTEDTWPGGSVDSGNQQRAESIPARSYVASAYRSKSARWPFLLIIPFY
VVILVLIGMLVKVYSQRKKWRMDDFSSEEQFESESESKD
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_020077

**ORF Size:** 2217 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_020077.1](#), [NP\\_064462.1](#)

**RefSeq Size:** 2431 bp

**RefSeq ORF:** 2220 bp

**Locus ID:** 56806

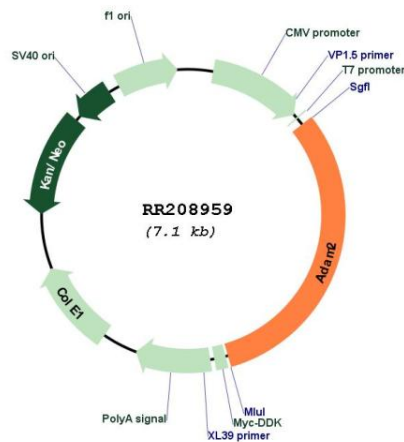
**UniProt ID:** [Q63202](#)

**Cytogenetics:** 15p12

**MW:** 82.5 kDa

**Gene Summary:** may play a role in sperm-oocyte binding and fusion [RGD, Feb 2006]

### Product images:



Circular map for RR208959