

## Product datasheet for **RR217263**

### Adamts4 (NM\_023959) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts4 (NM_023959) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adamts4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR217263 representing NM\_023959  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCCTCAATCCATCCCAGCTGCAGCACTGGTACCATGTCCAGGATGGGCTTGCATCCCAGGAGGGCT  
TGA CTGGGCACAGACTGCGAAGACTCCAACCTGCCTGCCGCCCGCACTGTGCCTTTCTCTGGTTTGA  
CGGGTGGCAGCAGCTGCTGCTGCTGGCCTCCCTCCTGCCTTTAGCCTGGTCAGCCAGCCCCCTCCCCGA  
GAGGAGGAGATCGTGTTCAGAGAAGCTCAACGGCAGTAGTATCATACCTGGCTCAGGCGTCCCTGCCA  
GGCTGCTGTACCGATTACCAGCCTTTGGGGAGATATTGTTACTAGAACTAGAGCAGGATCCTGGGGTGA  
GGTAGAGGGGCTGACAGTACAGTACCTGGGCCAGGCACCTGAGATGCTGGGTGGGCAGAGCCAGGTACC  
TACCTGACTGGCACCATCAATGGAGATCCGGAGTCGGTGGCGTCTCTGCACTGGGACAGGGGAGCCCTAT  
TGGGGGTATTGCAGTACCGGGGGCCGAACTCCACCTCCAGCCTCTGGAAGGAGGGCCCTTAACTCTGC  
TGGGGGACCAGGGGCTCACATCCTACGCCGGAAGAGTCTGCCAGCAACCAGGATCCCATATGCAACGTC  
AAGGCTCCTTCTGGGAGCCCCAGTCCCATTTCCCGCAGAAACAAGCGCTTCGCTTCGCTGAGTAGATTCCG  
TGGAGACTGCTGGTGGCAGATGACAAGATGGCAGCATTCCACGGGGCAGGGTTAAAGCACTACCTGCT  
GACGGTCAATGGCCCGCTGCCAAAGCCTTAAAGCATCCAAGCATCCGAAACCCTGTCAACTTGGTGGTG  
ACTCGTCTAGTAATCCTGGGGTCCGGCCAGGAAGTGCCTCAAGTGGGGCCAAAGTCCGCCAGACCCCTAC  
GCAGCTTCTGCACCTGGCAGAAAGGCCTAAACCCTCCGAACGACTCAGATCCTGACCACTTTGACACGGC  
CATTCTGTTACCCGGCAGGACCTGTGTGGGTCTCCACCTGTGACGCTCTGGGTATGGCTGGTGTGGGC  
ACAGTGTGTGACCAGCTAGGAGCTGTGCTATTGTGGAGGACGATGGGCTCCAGTCCGCTTACCAGCCG  
TCCATGAACTGGCCATGTCTTCAACATGCTCCATGATAACTCCAACCCGTGTGCTAATTTGAATGGGA  
GGGGAGTTCTCTCGCCATGTCAATGGCTCCTGTCAATGGCTCACGTGGACCCTGAAGAGCCCTGGTCCCCC  
TGCACTGCCCCGATTCACTACTGACTTCCCTGGACAATGGCTATGGACTGCTCTTAGACAAACCAGAGG  
CTCCCCTGCATCTGCCAGTACTTTTCTGGCAAGGACTATGATGCTGACCGCCAGTGCCAACTGACCTT  
TGGTCTGACTCAAGCCATTGTCCACAGCTGCCACCGCCTGTGCTGCCCTCTGGTGGCTTTGGCCACCTC  
AATGGCCATGCCATGTGTGACACTAAGCACTCACCTGGGCCGATGGTACTCCCTGCGGACTGCACAGG  
CCTGTATGGGTGGCCGCTGTCTCCAGTGGACCAGCTCAAGGACTTCAATATTCTCAGGCTGGAGGCTG  
GGGTCCCTGGGACCATGGGTGACTGTCCAGGACTTGTGGAGTGGTGTCCAATTCTCCTCCCGGGAC  
TGCACAAAGCCTGTCCCCGGAATGGTGGAAAGTATTGTGAGGGCCCGCTACCCGTTCCGCTCCTGTA  
ACACTAAGAACTGCCACATGGCTCAGCATTGACCTTCGCTGAAGAGCAGTGTGCTGCCTACAACCACCG  
AACCGACCTTTCAAGAGTTTTCCGGGGCCATGGACTGGGTCCGCGCTACACAGGTGTAGCCCCCTCGA  
GACCAGTGCAAACCTCACCTGCCAGGCCCGGCACTGGGCTACTACTATGTACTGGAGCCACGGGTGGCAG  
ATGGAACCTCCCTGTTCCCAGACTCTTCTCTGTGTGTCCAGGGCCGCTGTATCCACGCTGGCTGTGA  
TCGAATCATTGGCTCCAAAAAGAAATTTGACAAGTGCATGGTGTGCGGTGGGAATGGCTCTAGCTGCAGC  
AAGCAGTCAGGCTCCTTCAAAAAATT CAGGTACGGATACAGCGATGTGGTCACGATCCCTGCGGGACGCA  
CCCATATCCTTGTACGGCAGCAGGGAGGATCTGGCCTCAAGAGCATCTACCTGGCCCTGAAGCTAGCAGA  
TGGTCTTACGCCCTCAATGGTGAATACACGCTGATGCCCTCCTCAACAGATGTGGTACTTCTGGGGCA  
GTCAGTTGCGCTATAGCGGACGCACGGCAGCCTCAGAGACTGTCTGGACATGGGCCGCTGGCCGAGC  
CCTTGACGCTGCAAGTTCTGGTGGCTGGCAACCCACAGAATGTACGCTGCGGTACAGTTTCTTTGTCCC  
GCGGCCAGTCCCTTCAACGCCACGCCCTCCTCCCCAAACTGGCTGCAACGCAGGGCAGAGATTCTGGAG  
ATCCTTCGGAAGCGAACCTGGGCAGGCCGAAA

ACCGGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217263 representing NM\_023959  
Red=Cloning site Green=Tags(s)

MASIHPCSTGTMSRMGLHPRRGLTGHRLRRLQPCLPPRTVPFSGLERWQQLLLLASLLPLAWSASPLPR  
EEEIVFPEKLNSSIIIPGSGVPARLLYRLPAFGEILLLELEQDPGVQVEGLTVQYLGQAPEMLGGAEPGT  
YLTGTINGDPESVASHWDRGALLGVLQYRGAELHLQPLEGGALNSAGGPGAHILRRKSPASNRGPICNV  
KAPSGSPSPISRRNKRFASLSRFVETLVVADDKMAAFHGAGLKHLYLLTVMAAAAKAFKHPSIRNPVNLVV  
TRLVILGSGQEVPQVGPSAAQTLRSFCTWQKGLNPPNDSDPHFDTAILFTRQDLCGVSTCDALGMAGVG  
TVCDPARSCAIVEDDGLQSAFTAAHELGHVFNMLHDNSKPCANLNGQSSSRHVMAPVMAHVDPPEPWSP  
CSARFITDFLDNGYGHCLLDKPEAPLHLPVTFPGKDYDADRQCQLTFGPDSSHCPQLPPPCAALWCFGHL  
NGHAMCQTKHSPWADGTPCGPAQACMGGRCLHVDQLKDFNIPQAGGWGPWGPWGDCSRTC GGGVQFSSRD  
CTKPVPRNGGKYCEGRRTPF RSCNTKNCPHGSALTFREEQCAAYNHRTDLFKSFP GPMDWVPRYTG VAPR  
DQCKLTCQARALGYVVLEPRVADGTPCSPDSSV CVQGRCIHAGCDRIIGSKKKFDKCMVCGNGSSCS  
KQSGSFKKFRYGYSDVVTIPAGRTHILVRQQGSGLSIYLALKLADGSYALNGEYTLMPSSSTDVVLPGA  
VSLRYSGRTAASETL SGHGPLAQPLTLQVLVAGNPQNVR LRYFFVPRVPSTPRPPPQNLQRRAEILE  
ILRKRTWAGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

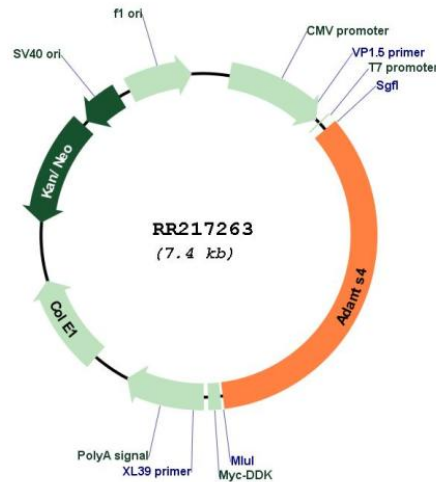
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

**Plasmid Map:**


**ACCN:** NM\_023959

**ORF Size:** 2553 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\\_023959.1](#), [NP\\_076449.1](#)

**RefSeq Size:** 3339 bp

**RefSeq ORF:** 2556 bp

**Locus ID:** 66015

**UniProt ID:** [Q9ESP7](#)

**Cytogenetics:** 13q24

**MW:** 91.9 kDa

**Gene Summary:** a disintegrin and metalloproteinase; may play a role in the progression of Alzheimers disease [RGD, Feb 2006]