

Product datasheet for **MR210929**

Adamts4 (NM_172845) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts4 (NM_172845) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adamts4
Synonyms:	ADAM-; ADAM-TS4; ADAMTS-2; ADMP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210929 representing NM_172845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCCAGATGGGCTTGCATCCCAGGAGGGGCTTGACTGGCACTGGCTGCGAAGATCCAACCTGCT
 TGCCGCTTCACACTGTGCAGTGGCGGAGGCTGCTGCTGCTGGCCTTCTCCTGCTCTAGCGTGGCCCGC
 CAGCCCCCTCCCCGGGAGGAGGAGATCGTGTTCAGAGAAGCTCAATGGCAGTAGCATCTACCTGGA
 TCAGGCGTTCTGCCAGGCTGCTGTACCGATTGCCAGCCTTTGGGGAGATGTTGCTACTAGAACTAGAAC
 AGGACCTGGGGTGCAGGTAGAGGGTTTACTGTACAGTACCTGGGCCAGGCACCTGAGATGCTGGGTGG
 GGCAGAGCCAGGTACCTACCTGACTGGCACCATCAATGGAGATCCGGAGTCGGTGGCATCTCTGCACTGG
 GACGGGGAGCCCTATTAGGGTACTGCAGTACCGTGGGGCCGAAGTCCACCTCCAGCCTCTGGAAGGAG
 GCGCCCTAACTCTGCTGGGGACCGGGGGCTCACATCTACGCCGAAGAGTCTGCCAGCAGCCAAGG
 TCCCATGTGCACCGTCAAGGCTCCTTCTGGGAGCCCAAGTCCCATTCCCGCAGAACCAAGCGCTTCGCT
 TCTCTGAGTAGATTCGTGGAGACTGGTGGTAGCAGATGACAAGATGGCAGCATTCCATGGTACAGGGT
 TAAAGCGTACCTGCTGACGGTTATGGCAGCCGCCCTAAAGCCTTTAAACACCCAAGCATCCGAAACCC
 TGTCAACTTGGTGGTACGCGCCTGGTGTCTGGGGTCCGGCCAGGAAGGGCCCAAGTGGGGCCAAGT
 GCCGCCAGACCTACGCAGCTTCTGCACCTGGCAGCGGGGCTCAACACCCCTAACGACTCAGATCCTG
 ACCACTTTGACACAGCCATTCTGTTACCCGGCAGGACCTGTGTGGGGTCTCCACTTGTGACACCCCTGGG
 TATGGCTGATGTGGGCACAGTGTGTATCCAGCTAGGAGCTGTGCTATTGTGGAAGATGATGGGCTCCAG
 TCAGCCTTCACTGCTGCTCATGAACTGGGCCATGTCTTCAACATGCTCCATGATAACTCCAAGCCATGCA
 CTAACTTGAATGGGCAGGGGGTTCCTCTCGCCATGTGCTGGCTCCTGTGATGGCCCATGTGGACCCTGA
 AGAGCCCTGGTCCGCTGCAGTCCCGATTTCATCACTGACTTCCCTGGACAATGGTTATGGGCACTGCCTC
 TTAGACAAACCGGAGGCTCCCCTCCATCTACCAGCGACTTTTCCCTGGCAAGGACTATGACGCTGACCGCC
 AATGCCAACTGACCTTCGGTCTGACTCAAGCCATTGTCCACAGCTGCCACCGCCCTGTGCTGCCCTCTG
 GTGCTCTGGCCACCTCAATGGCCATGCCATGTGCCAGACGAAGCACTCACCTTGGGCTGATGGCACTCCC
 TGCGGGTCTTACAGGCTGCATGGGTGGCCGCTGTCTGCACGTGGACCAGCTCAAGGACTTCAATGTTCC
 CTCAGGCTGGCGGCTGGGGCCCTGGGGACCATGGGGTACTGCTCCAGGACTTGTGGGGTGGTGTCCA
 GTTCTCCTCCCGGATTGCACGAGGCCGTCCTCCCGGAACGGTGGCAAGTATTGTGAGGGCCCGCGACT
 CGTTCGGTCTGCAACACGGAGAAGTCCCACACGGCTCAGCATTGACCTTCCGTGAAGAGCAGTGTG
 CTGCTACAACACCGAACCGACCTTCAAGAGCTTCCAGGGCCATGGACTGGGTCCCGGCTACAC
 AGGTGTGGCCCTCGAGACCAATGCAAACTCACTTCCAGGCCCGGGCACTGGGCTACTACTACGTAAGT
 GAGCCCCGGTGGCAGATGGGACTCCCTGCTCCCAGACACCTCCTCTGTCTGTGTCAGGGCCCGTGTGA
 TCCATGCTGGCTGTGACCGGATCATTGGCTCCAAAAAGAAATTTGACAAGTGCATGGTGTGCGGCGGGGA
 TGGCTCTCGTGCAGCAAGCAGTCGGGCTCCTTCAAAAAATTCAAGGATGGATACAGCGATGTGGTCAGG
 ATCCCTGCGGGGGCCACCCATATCCTTGTACGGCAGCAGGGGGGTCTGGTCTCAAGAGCATCTACCTGG
 CCCTGAAGCTTTCTGACGGTCTTACGCCCTCAATGGTGAATACACGCTGATGCCCTCCCCAACAGATGT
 GGTCTTCTGGGGCAGTCAGCTTGCCTACAGCGGAGCCACAGCAGCTCAGAGACTGTCTGGACAT
 GGGCCGCTGGCCAGCCCTTACGCTGCAAGTCTTGGTGGTGGCAACCCACAGAATGCACGCTCTGCGGT
 ACAGTTTCTTGTCCCGGGCCAGTCCCTTCAACACCACGCCCTCCTCCCAAGACTGGCTGCAACGCAG
 GGCAGAGATACTGAAAATCCTTCGGAAGCGTCCCTGGGCAGGCCGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210929 representing NM_172845
Red=Cloning site Green=Tags(s)

MSQMGLHPRRGLTGHWLRRFQPCLPLHTVQWRLLLLAFLLSLAWPASPLPREEEIVFPEKLNSSILPG
SGVPARLLYRLPAFGEMLLLELEQDPGVQVEGLTVQYLGQAPEMLGGAEPGYLTGTINGDPESVASLHW
DGGALLGVLQYRGAELHLQPLEGGALNSAGGPGAHILRRKSPASSQGMCTVKAPSGSPSPISRRTKRFA
SLSRFVETLVVADDKMAAFHGTGLKRYLLTVMAAAAKAFKHPsirnpvnlvVTRLVILGSGQEGPQVGPS
AAQTLRSFCTWQRGLNTPNDSDPDHFDTAILFTRQDLCGVSTCDTLGMADVGTVCDPARSCAIVEDDGLQ
SAFTAHELGHVFNMLHDNSKPCTNLNGQGSSRHVMApVMAHVDPPEPWSPCSARFITDFLDNGYGHCL
LDKPEAPLHLPATFPGKDYDADRQCQLTFGPDSSHCPQLPPPAAALWCSGHLNGHAMCQTKHSPWADGTP
CGSSQACMGGRC LHVDQLKDFNVPQAGGWGPWGWDCSRTCGGGVQFSSRDCTRPVPRNGGKYCEGRRT
RFRSCNTENCPHGSALTFREEQCAAYNHRTDLFKSFGPMDWVPRYTGVA PRDQCKLTCQARALGYYYVL
EPRVADGTPCSPDTSSVCVQGRCIHAGCDRIIGSKKKFDKCMVCGDGSRCskQSGSFKKFRYGSDVVT
IPAGATHILVRQQGSGSLKSIYLALKLSDGSYALNGEYTLMPSP TDVVLPGAVSLRYSGATAASETLSGH
GPLAQPLTLQVLVAGNPQNARLRYSFVPRPVPSTPRPPQDWLQRRAEILKILRKPWAGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9006_a02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_172845

ORF Size: 2499 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_172845.3](#)

RefSeq Size: 3673 bp

RefSeq ORF: 2502 bp

Locus ID: 240913

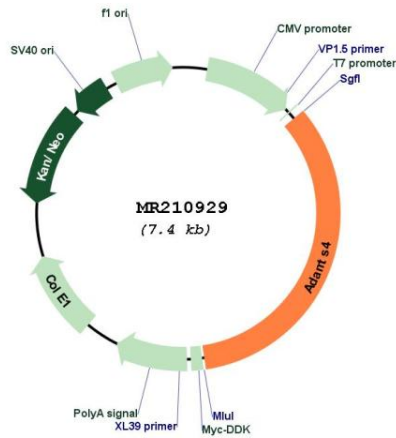
UniProt ID: [Q8BNJ2](#)

Cytogenetics: 1 79.28 cM

MW: 91.7 kDa

Gene Summary: This gene encodes a member of "a disintegrin and metalloproteinase with thrombospondin motifs" (ADAMTS) family of multi-domain matrix-associated metalloendopeptidases that have diverse roles in tissue morphogenesis and pathophysiological remodeling, in inflammation and in vascular biology. The encoded preproprotein undergoes proteolytic processing to generate an active zinc-dependent aggrecanase enzyme that degrades cartilage. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR210929