

Product datasheet for **RC209226**

ADAMTS4 (NM_005099) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS4 (NM_005099) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAMTS4
Synonyms:	ADAMTS-2; ADAMTS-4; ADMP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209226 representing NM_005099
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCAGACAGGCTCGCATCCCGGGAGGGGCTTGGCAGGGCGTGGCTGTGGGGAGCCCAACCCTGCC
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Protein Sequence: >RC209226 representing NM_005099
Red=Cloning site Green=Tags(s)

MSQTGSHPGRGLAGRWLWGAQPCLLLPIVPLSWLVWLLLLLLASLLPSARLASPLPREEEIVFPEKLNGS
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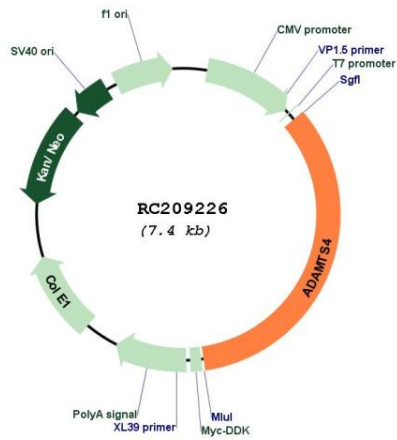
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Chromatograms: https://cdn.origene.com/chromatograms/mg3026_g09.zip

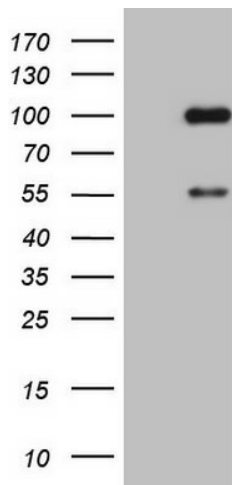
Restriction Sites: Sgfl-Mlul

Reconstitution Method:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005099.6
RefSeq Size:	4342 bp
RefSeq ORF:	2514 bp
Locus ID:	9507
UniProt ID:	O75173
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
MW:	90 kDa
Gene Summary:	<p>This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of this family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene lacks a C-terminal TS motif. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]</p>

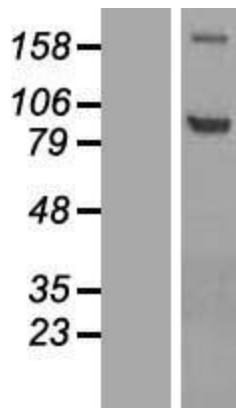
Product images:



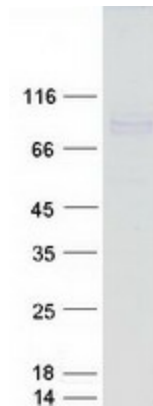
Circular map for RC209226



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ADAMTS4 (Cat# RC209226, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADAMTS4 (Cat# [TA805208]). Positive lysates [LY417514] (100ug) and [LC417514] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417514]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209226 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADAMTS4 protein (Cat# [TP309226]). The protein was produced from HEK293T cells transfected with ADAMTS4 cDNA clone (Cat# RC209226) using MegaTran 2.0 (Cat# [TT210002]).