

Product datasheet for **MG221476**

Adamts8 (NM_013906) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts8 (NM_013906) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adamts8
Synonyms:	METH-2; METH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG221476 representing NM_013906
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCCGCGACCCACCACCACCGGGTGGCCGCCCTCTGCTGCTGCTATTGCAGCTGCCGCCGCCG
CACTCGTCTGCGGCGCCCGGGGGCCGGGAACCGGGCGCAGGCCCTCGGAGCTAGTGGTGCCACGCG
GTTGCCCGGCAGCGGAGCGAGCTCGCCTTCCACCTGTCCGCTTCGGCCAGGGCTTCGTGCTGCGCCTG
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GAAGACTCCCGCAAAGTGCCACCACCCTTCGGATCCAAAAGTGAAGCAAGAGGTTTGTGTCGAGGCTC
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TGAGGCTCTGAAACCTGAGGATGCCAAGCCCTGTGGAAGCCAGCCGTGTCCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG221476 representing NM_013906
 Red=Cloning site Green=Tags(s)

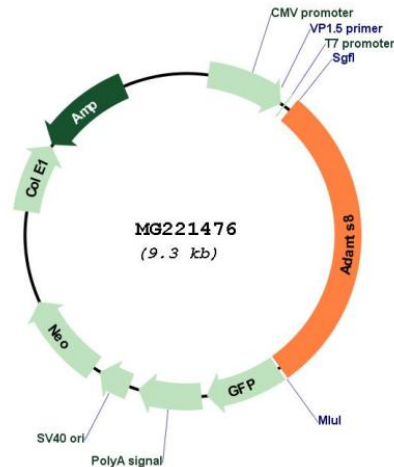
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 VVVKVLIVEEGWGPEVSDNGGLTLRNFCWQRRFNKPSDRHPEHYDTAILFTRQNF CGKGEQCDTLGMA
 DVGITCDPKKSCSVIKDEGLQAAYTLAHELGHVLSMPHDDSKPCVRLFGPMGKYHMMAPFFIHVNKTLPW
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 SGVSPDRCKLFCRARGRSEFKVFEAKVIDGTLCPDLSICVRGQCVKAGCDHVNSPKKLDKCGVCGG
 KGTACRKISGSFTPF SYGYNDIVTIPAGATNIDVKQRSHPGVRNDG SYLALKTANGQYLLNGLAISAE
 QDILVKGITILKYSMATLERLQSFQALPEPLTVQLLTVSGEVFPKVRVYTFVFPNDMDFSVQNSKERAT
 TNIIQSLPSAEWVLGDWSECPSTCRGSWQRRVTECRDPSGQASDTCDEALKPEDAKPCGSQPCPL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_013906

ORF Size: 2715 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_013906.3](#), [NP_038934.2](#)

RefSeq Size: 3632 bp

RefSeq ORF: 2718 bp

Locus ID: 30806

Cytogenetics: 9 16.49 cM

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. This gene is expressed in mouse lung, heart and macrophage-rich areas of atherosclerotic plaques. The encoded preproprotein undergoes proteolytic processing to generate an active, zinc-dependent aggrecanase enzyme. This gene is located adjacent to a related ADAMTS gene on chromosome 9. [provided by RefSeq, May 2016]