

Product datasheet for **MR224554**

Adamts5 (NM_011782) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts5 (NM_011782) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adamts5
Synonyms:	9530092O11Rik; ADAM-; ADAM-TS5; ADAMTS1; ADAMTS11; ADMP-2; AI481094; ASMP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224554 representing NM_011782
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGCTCGAGTGGCGCCCTTGTGCTGCTACTGCTGCTGAGCGGCTCCTGCCTGTCCCTGGCCG
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 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >MR224554 representing NM_011782
 Red=Cloning site Green=Tags(s)

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MRLEWAPLLLLLLLLSASCLSLAADSPAAPAAQDKTRQPQAAAAAEPDQPQGEETRERHGLQPLAGQRR
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SPRSLAVFDLCGGLDGF FAVKHARYTLKPLL RGSWAEYERYDGSRI LHVYNREGF SFEALPPRASCE
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RMYGRGLQHYLL TLASIANRLYSHASIENHIRLAVVKVVVLTDKDT SLEVSKNAATTLKNFCKWQHQHNQ
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FTAYLALKKKTGEYLINGKYMISETI IDINGTVMNYSWSHRDFLHGMGYSATKEILIVQILATDPT
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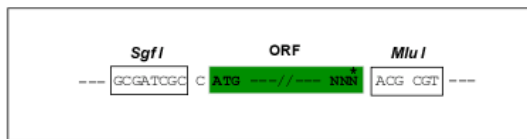
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011782

ORF Size: 2790 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_011782.1](#), [NM_011782.2](#), [NP_035912.2](#)

RefSeq Size: 8104 bp

RefSeq ORF: 2793 bp

Locus ID: 23794

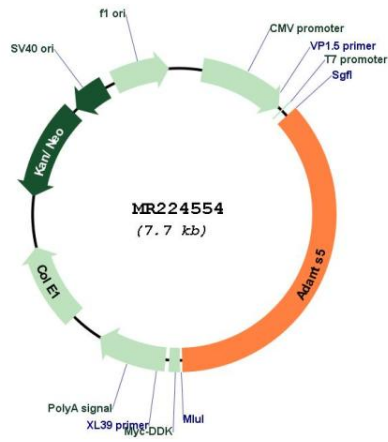
UniProt ID: [Q9R001](#)

Cytogenetics: 16 48.34 cM

MW: 102.3 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. Mice lacking the encoded protein are protected from surgery-induced osteoarthritis and antigen-induced arthritis. [provided by RefSeq, May 2016]

Product images:



Circular map for MR224554