

Product datasheet for **MG224554**

Adamts5 (NM_011782) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts5 (NM_011782) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adamts5
Synonyms:	9530092O11Rik; ADAM-; ADAM-TS5; ADAMTS1; ADAMTS11; ADMP-2; AI481094; ASMP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224554 representing NM_011782
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGCTCGAGTGGCGCCCTTGTGCTGCTACTGCTGCTGAGCGGCTCCTGCCTGTCCCTGGCCG
 CTGACAGCCCGCGCGGCACCTGCCAGGATAAAACCAGGCAGCCTCAGGCTGCAGCAGCGGCCCGCA
 GCCGGACCAGCCGAGGGGAGGAAACACGGGAGCGAGGCCATTTACAACCCCTTGCCCGGCAGCGCAGG
 AGCGGGCGGCTGGTCCAGAATATAGACCACTCTACTCTGGCGGTGGCAAAGTGGGTACCTTGTCTACG
 CGGGCGGCGGAGGTTCTGCTGGACCTGGAGAGAGATGACACAGTGGGTGCTGCTGGTAGCATCGTTAC
 TGCAGGAGGAGGGCTGAGCGCATCTCTGGCCACCGGGTCACTGTTTCTACAGAGGCACCGTGGACGGC
 AGCCCTCGATCCCTAGCTGTCTTTGACCTCTGCGGGGTCTCGATGGCTTCTTTCAGTCAAGCATGCGC
 GCTACACTCTAAAGCCACTCTGCGTGGTCTGGGCAGAGTATGAACGAATTTATGGGGATGGATCTTC
 CCGCATCTGCATGTCTACAACCGGAGGGCTTTAGCTTCGAGGCCCTGCCGCCACGCGCCAGTTGGCAG
 ACTCTGCATCCCATCTGGGCCCAAGAGAGCCCTCGGTGCACAGTAGATCTAGGAGACGCTCAGCGC
 TGGCCCGCGAGCTGCTGGACCACTCAGCTTCTCGCCATCTGGGAACCGGGACCTCAGACTTGGTGGAG
 GCGTAGGCGCGTTCATCTCCAGGGCCCGCCAGGTGGAGCTCCTCTTGGTGGCTGACTCGTCCATGGCC
 AGGATGTATGGGCGGGCCTGCAGCATTACCTGCTGACCTGGCCTCCATCGCCAACAGGCTGTACAGTC
 ATGCAAGCATTGAGAACCACATCCGCTGGCGGTGGTGAAGGTGGTTGTGCTGACGGACAAGGACACGAG
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 CCAGCATCGATGCATCCAAGCCCTGGTCCAATGCACGTCAGCCACCATCACAGAATTCCTGGATGATGG
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 TACGATGCCACCCAGCAGTGCAACTTGACATTTGGGCCTGAGTACTCGGTGTGCCCTGGCATGGATGTCT
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 GGAGGGCACTCCCTGTGGGAAGGGAAGAGTCTGCCTTCAAGGCAATGTGTGGACAAAATAAGAAAAAA
 TATTACTCGACATCAAGCCATGGAATTTGGGGTCTGGGGCCCTGGGGTCACTGTTCTCGCTCATGCG
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 AGGGAAGAGGGCCATATACCGTTCCTGCAGTGTACACCCCTGCCACCCAATGGTAAATCTTTTCGCCAT
 GAGCAGTGTGAAGCCAAAATGGCTATCAGTCTGATGCAAAAGGAGTCAAAACATTTGTAGAATGGGTTT
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 CGTTGTGAGGATCCCTGAAGGAGCAACCCACATAAAAGTCCGACAGTTCAAAGCCAAAGACCAGACTAGA
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 GCCATGGCAGCAACAAGGTGGGACCACACTCTACACAGCTGCAGTGGGTGACAGGTCCATGGCTGGCCTG
 CTCAGGACCTGTGACACAGGCTGGCACACTAGGACCGTGCAGTGCAGGATGGAACAGGAAATAGCT
 AAAGATGCCTTCTCTCAGAGGCCTTCTGCATTTAAGCAATGTCTGCTGAAGAATGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG224554 representing NM_011782
 Red=Cloning site Green=Tags(s)

MRLEWAPLLLLLLLLSASCLSLAADSPAAAPAQDKTRQPQAAAAAEPDQPQGEETRERGHLQPLAGQRR
 SGGLVQNIQDLYSGGGKVGYL VYAGRRFLDLERDDTVGAAGSIVTAGGGLSASSGHRGHCFYRGTVDG
 SPRSLAVFDLCGGLDGF FAVKHARYTLKPLL RGSWAEYERYIGDSSRILHVYNREGFSFEALPPRASCE
 TPASPSGPQESPSVHSRSTRRSALAPQLLDHSAFSPSGNAGPQTWRRRRRSISRARQVELLLVADSSMA
 RMYGRGLQHYLLTLASIANRLYSHASIENHIRLAVVKVVVLTDKDTSLEVSKNAATTLKNFCKWQHQNQ
 LGDDHEEHYDAAILFTREDLCGHHSCTDLGMADVGTICSPERSCAVIEDDGLHAAFTVAHEIGHLLGLSH
 DDSKFCEENFGTTEDKRLMSSILTSIDASKPWSKCTSATITEFLDDGHGNCLLDLPRKQILGPEELPGQT
 YDATQQCNLTFGPEYSVCPGMDVCARLWCAVVRQGMVCLTKKLPAVEGTPCGKGRVCLQGKCVDKTKKK
 YYSTSSHGNWGSWGPWQCSRSCGGGVQFAYRHCNNPAPRNSGRYCTGKRAIYRSCSVTPCPPNGKSRFH
 EQCEAKNGYQSDAKGVKTFVEWVPKYAGVLPADVCKLTCRAKGTGYVVVSPKVTGTECRPYSNSVCVR
 GRCVRTGCDGIIGSKLQYDKCGVCGDNSCTKIIGTFNKKSKGYTDVVRIPEGATHIKVRQFKAKDQTR
 FTAYLALKKKTGEYLINGKYMISTSETIIDINGTVMNYSWSHRDFLHGMGYSATKEILIVQILATDPT
 KALDVRYSFFVPKTTQKVNSVISHGSNKVGPSTQLQWVTGPWLACSRCTDTGWHTRTVQCQDGNRKLK
 KGCLLSQRPSAFKQCLLKKC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

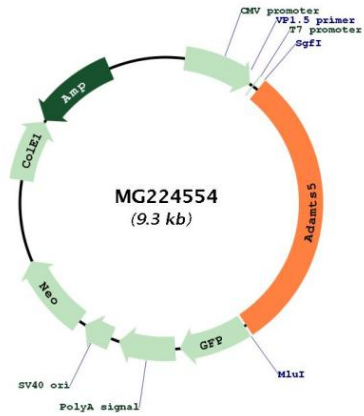
Cloning Scheme:



ACCN: NM_011782

ORF Size:	2790 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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.
RefSeq:	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
Gene Summary:	<p>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]</p>

Product images:



Circular map for MG224554