

Product datasheet for **RG239012**

ADAMTS10 (NM_001282352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS10 (NM_001282352) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAMTS10
Synonyms:	ADAM-TS10; ADAMTS-10; WMS; WMS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239012 representing NM_001282352.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGGCCGACGAGTGTCTCCGGGCTGGACTCACTCCTTCTGTCTCCCCACCCAGTGGTGCTACA
AACGGGTCTGTGTCCCTTTGGGTCGCGCCAGAGGGTGTGGACGGAGCCTGGGGCCGTGGACTCCAT
GGGGCGACTGCAGCCGGACCTGTGGCGGGCGTGTCTTCTAGCCGTCAGTGCAGACAGCCCAAGGC
CAACCATCGGGGCAAGTACTGTCTGGGTGAGAGAAGGCGGCACCGCTCTGCAACACGGATGACTGTC
CCCCTGGCTCCCAGGACTTCAGAGAAGTGCAGTGTCTGAATTTGACAGCATCCCTTTCCGTGGAAAT
TCTACAAGTGGAAAACGTACCGGGAGGCTGCTCGTACAGTGCCTAGCGGAAGGCTTCAACTTCTAC
ACGGAGAGGGCGGACCGTGGTGGACGGGACACCCTGCCGTCCAGACACGGTGGACATTTGCGTCAGT
GGCGAATGCAAGCACGTGGGCTGCGACCGAGTCTGGGCTCCGACCTGCGGGAGGACAAGTGCCGAGTG
TGTGGCGGTGACGGCAGTGCCTGCGAGACCATCGAGGGCGTCTTACGCCAGCCTCACCTGGGGCCGGG
TAGGAGATGTCGTCTGGATTCCAAAGGCTCCGTCCACATCTTATCCAGGATCTGAACCTCTCTCTC
AGTCACCTGGCCCTGAAGGGAGACCAGGAGTCCCTGCTGCTGGAGGGGCTGCCTGGGACCCCCAGCCC
CACCGTCTGCCTTAGCTGGGACCACCTTTCAACTGCGACAGGGGCCAGACCAGGTCCAGAGCCTCGAA
GCCCTGGGACCGATTAATGCATCTCTCATCGTCATGGTGTGGCCCGGACCGAGCTGCCTGCCCTCCGC
TACCGCTTCAATGCCCCATCGCCCGTACTCGTGCCTCCCTACTCCTGGCACTATGCGCCCTGGACC
AAGTGTCTCGGCCAGTGTGCAGGCGGTAGCCAGGTGCAGGCGGTGGAGTGCCCAACAGCTGGACAGC
TCCGCGGTGCGCCCCACTACTGCAGTGCACAGCAAGTGCCTGAGGAGGAGGAGGAGGAGGAGGAGGAG
GAGCCTTGCCTCCAGACTGGGTTGTAGGGAACGGTGTCTGCGAGCCGAGCTGCGATGCAGGCGTG
CGCAGCCGCTCGGTGTGTGCCAGCGCGGTCTCTGCCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
TGCCCGCAGCCGCGCCACCTGTACTGGAGGCGCTGCCACGGCCCACTTGCCTCCGGAGTGGGCGGCC
CTCGACTGGTCTGAGTGCACCCACAGTGCAGGCGCGGCCCTCCGCCACCGCTGGTCTTTGCAAGAGC
GCAGACCACCGGCCACGCTGCCCCGCGCAGTGTCTACCCGCGCCAAAGCCACCGGCCACCATGCGC
TGCAACTTGCAGCGTGCCTCCCGGCGCCGCTGGGTGGTGGGAGTGGGGTGGTGTCTGCACAGTGC
GGCGTCCGGCAGCGCAGCGTGGTGCCTGCACAGCCACAGGGCCAGGCGTGCACAGTGCACG
GAGGCCCTGCGGCGCCACCACGACGAGTGTGAGGCAAGTGCAGACAGCCCAACCCCGGGGACGGC
CCTGAAGAGTGAAGGATGTGAACAAGTGCCTACTGCCCTGGTGTCAAATTCAGTCTGCAGC
CGAGCCTACTTCCGCGAGTGTGTGCAAAACCTGCCATGGCCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG239012
 Blue=ORF Red=Cloning site Green=Tag(s)

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MGPTSVLRAGLTPSCLPPPSGATNGSVSPLGRAQRVWTEPGGRGLHGATAAGPVAAACPLLAVTATAPG
QPSGASTVWREGGTAPATRMTVPLAPRTSEKCSVLNLTAASLVGNSTSGKRTGEACSLTCLAEGFNFY
TERAAAVVDGTPCRPDTVDICVSGECKHVGC DRVLGSDLREDKCRVCGGDGSACETIEGVFSPASPGAG
YEDVVWIPKGSVHIFIQDLNLSLSHLALKGDQESLLEGLPGTPQPHRLPLAGTTFQLRQGPQVQSLE
ALGPINASLIVMLARTELPALRYRFNAPIARDSLPPYSWHYAPWTKCSAQCGGSQVQAVECRNQLDS
SAVAPHYCSAHSKLPKRQRACNTEPCPPDWVGNWLSLRSCDAGVRSRSVVCQRRVSAAEKALDDSA
CPQPRPPVLEACHGPTCPPEWAALDWSECTPSCGPGLRHRVVLCKSADHRATLPPAHCSPAAPKPPATMR
CNLRRCPARWVAGEWGECSAQCGVGRQRSVRCTSHTGQASHECTEALRPPTTQQCEAKCDSPTPGDG
PEECKDVNKVAYCPLVLKFCRAYFRQMCKTCHGH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001282352

ORF Size: 1770 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).

RefSeq: [NM_001282352.1](#), [NP_001269281.1](#)

RefSeq Size: 2475 bp

RefSeq ORF: 1773 bp

Locus ID: 81794

UniProt ID: [Q9H324](#)

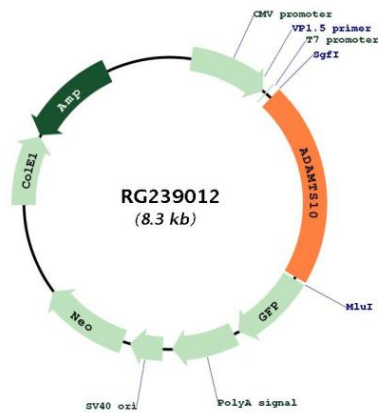
Cytogenetics: 19p13.2

Protein Families: Druggable Genome, Secreted Protein

MW: 63 kDa

Gene Summary:

This gene belongs to the ADAMTS (a disintegrin and metalloproteinase domain with thrombospondin type-1 motifs) family of zinc-dependent proteases. ADAMTS proteases are complex secreted enzymes containing a prometalloprotease domain of the reprotolysin type attached to an ancillary domain with a highly conserved structure that includes at least one thrombospondin type 1 repeat. They have been demonstrated to have important roles in connective tissue organization, coagulation, inflammation, arthritis, angiogenesis and cell migration. The product of this gene plays a major role in growth and in skin, lens, and heart development. It is also a candidate gene for autosomal recessive Weill-Marchesani syndrome. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG239012