

Product datasheet for **RC239012**

ADAMTS10 (NM_001282352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS10 (NM_001282352) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAMTS10
Synonyms:	ADAM-TS10; ADAMTS-10; WMS; WMS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239012 representing NM_001282352
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCGACGAGTGTCTCCGGCTGGACTCACTCCTTCTGTCTCCCCACCCAGTGGTGCTACAA
 ACGGGTCTGTGTCCCCTTTGGGTCGCGCCAGAGGGTGTGGACGAGCCTGGGGCCGTGGACTCCATGG
 GCGACTGCAGCCGACCTGTGGCGGCGCGTGTCTTCTAGCCGTCCTGCGACAGCCAGGCCAA
 CCATCGGGGGCAAGTACTGTCTGGTGAGAGAAGGCGGCACCGCTCCTGCAACACGGATGACTGTCCCC
 TGGCTCCAGGACTTACAGAGAAGTGCAGTGTCTGAATTTGACAGCATCCCTTTCCGTGGAAATTTAC
 AAGTGGAAAACGTACCGGGGAGGCTGCTCGCTCACGTGCCTAGCGGAAGCTTCAACTTCTACACGGAG
 AGGGCGGACGCCGTGGTGGACGGGACACCCTGCCGTCCAGACACGGTGGACATTTGCGTCAGTGGCGAAT
 GCAAGCACGTGGCTGCGACCGAGTCTGGGCTCCGACCTGCGGGAGGACAAGTCCGAGTGTGTGGCGG
 TGACGGCAGTGCCTGCGAGACCATCGAGGGCGTCTTACGCCAGCCTCACCTGGGGCCGGTACGAGGAT
 GTCGTCTGGATCCCAAAGGCTCCGTCCACATCTTCATCCAGGATCTGAACCTCTCTCAGTCACTTGG
 CCCTGAAGGGAGACCAGGAGTCCCTGCTGCTGGAGGGGCTGCCTGGGACCCCCAGCCCCACCGTCTGCC
 TCTAGCTGGGACCACCTTCAACTGCGACAGGGCCAGACCAGGTCCAGAGCCTCGAAGCCCTGGGACCG
 ATTAATGCATCTCTCATCGTCATGGTGTGGCCCGGACCGAGTGCCTGCCCTCCGCTACCGCTTCAATG
 CCCCCATCGCCGTGACTCGTGCCTCCCTACTCCTGGCACTATGCGCCCTGGACCAAGTGTCCGCCCA
 GTGTGCAGGCGGTAGCCAGGTGCAGGCGGTGGAGTCCGCAACCAGCTGGACAGCTCCGCGGTCCGCC
 CACTACTGCAGTGCACAGCAAGTGCCTCAAAAGGACGCGCCCTGCAACACGGAGCCTTGCCTCCAG
 ACTGGTGTAGGGAAGTGGTCTGCTGCAGCCGAGTGCAGTGCAGGGCGTGCAGCCGCTCGTCCGTCG
 GTGCCAGCGCCGCTCTCTGCCGCGGAGGAGAAGGCGCTGGACGACAGCGCATGCCCGCAGCCGCGCCCA
 CCTGTAAGGAGCCTGCCACGGCCCACTTGCCTCCGAGTGGGCGGCCCTCGACTGGTCTGAGTGCA
 CCCCCAGTGCAGGCGGGCCTCCGCCACCGCGTGGTCTTTGCAAGAGCGCAGACCACCGGCCACGCT
 GCCCCCGGCGCACTGCTCACCCGCGCAAGCCACCGGCCACCATGCGTGCACCTTGCAGCGTCCCC
 CCGGCCGCTGGTGGTGGCGAGTGGGTGAGTGTCTGACAGTGCAGGCGTCCGGCAGCGGCAGCGCT
 CGGTGCGTGCACAGCCACACGGCCAGGCGTGCACAGTGCACGGAGGCCCTGCGGCCGCCACCAC
 GCAGCAGTGTGAGGCAAGTGCACAGCCCAACCCCGGGGACGCGCCTGAAGAGTGAAGGATGTGAAC
 AAGGTCGCTACTGCCCTGGTGTCAAATTTAGTTCTGCAGCCGAGCCTACTCCGCCAGATGTGCT
 GCAAAACCTGCCATGGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239012 representing NM_001282352
 Red=Cloning site Green=Tags(s)

MGPTSVLRAGLTPSCLPPPSGATNGSVSPLGRAQRVWTEPGGRGLHGATAAGPVAAACPLLAVTATAPGQ
 PSGASTVWVREGGTAPATRMVPLAPRTSEKCSVLNLTASLSVGNSTSGKRTGEACSLTCLAEGFNFYTE
 RAAAVVDGTPCRPDTVDICVSGECKHVGCDRVLGSDLREDKCRVCGGDGSACETIEGVFSPASPGAGYED
 VVWIPKGSVHIFIQDLNLSLHLALKGDQESLLEGLPGTPQPHRLPLAGTTFQLRQGPDQVQSLEALGP
 INASLIVMVLARTELPALRYRFNAPIARDSLPPYSWHYAPWTKCSAQCGGSQVQAVECRNQLDSSAVAP
 HYCSAHSKLPKRQRACNTEPCPPDWVVGWNSLCSRCDAGVRSRVSVCQRRVSAAEKALDSSACPPRP
 PVLEACHGPTCPPEWAALDWSECTPSCGPGLRHRVVLCKSADHRATLPPAHCSPAAPKPPATMRCNLRRCP
 PARWVAGEWGECSAQCGVQQRQSVRCTSHTGQASHECTEALRPPTTQQCAKCDSPTPGDGPEECKDVN
 KVAYCPLVLKQFCSRAYFRQMCKTCHGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<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_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]