

Product datasheet for MR231498

Adamts13 (NM_001290465) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adamts13 (NM_001290465) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Adamts13
Synonyms: ADAM-TS13; ADAMTS-13; Gm710; vWF-CP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR231498 representing NM_001290465
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGAGCCAGCTTTGCCTGTGGTTGACGTGCCAGCCTTGTATGCTGTGTCAGTGTGTCAGAGGAATCCTCACTG
 GTGCCATCTTCATTCTGGGCTGTGGGGCTCTCTGACTTCCAGAAGAGTCTTCTCAAGATCTGGAGCC
 CAAGGATGTGCTTCTTACTTTGGCCACCATGCTGCTCCATTACAGGCCATCCTCCCTCTCACCTCCAG
 AGACTGAGACGGAGAAGGACTTTGGAGGACATTCTGCACCTGGAACCTCCTGGTAGCTGTGGGCCCGGATG
 TTTCCCGGGCTCATCAGGAGGACACAGAACGCTACGTGCTCACTAATCTCAATATCGGGTCAAGACTGTT
 GAGAAACCCATCCCTGGGAGTCCAGTTCACGGTGCACCTGGTGAAGCTAATCACCTCTCTGACTCAGAG
 AGTACTCCGAATATCACGGCCAACATCACCTCATCCTTGATGAGCGTCTGCGAGTGGAGCCAGACGATCA
 ACCCCACGATGACAGGGATCCAAGTACGCTGACCTGATTCTCTATATCACAGGTTTGACCTGGAGTT
 GCCTGATGGCAACCAGCAGGTTCCGGGTGTACCCAGCTGGGAGGTGCCTGCTCCCTTCTCTGGAGTTGC
 CTTACTACTGAGGATACTGGCTTTGACCTGGGGTACCCATCGCCATGAGATTGGGCACAGCTTCGGGC
 TGGACCATGATGGTGTCCAGGTAGTGGCAGCACCTGCAAGGCCAGTGGCCACGTGATGGCGGCTGATGG
 CGCAACACCTACTGGAGGACCCCTGGAGTGGTCTGCCTGCAGCCAAGGCAGTTGCAGCACCTACTCAGC
 ACAGGGCAAATGCACTGCTTCCAGGACCCACCTGGGCTGCAGTACAGGACTTACACGGCACAGCTGATGG
 CACAGCCTGGCCTCTACTACAGTGCAGATGATCAGTGCCTGTGGCTTTTCGGTTCTGGGGCTGTCGCTG
 CACCTTCTCCAGGGAGGGTCTGGATGATGCCAGGCCCTGCTGCTGCCACACAGACCCCTTGACCAAAGC
 AGCTGCAGCCGCCTCCTTGTCTCTCTGGATGGGACAGAATGTGGTGTGGAGAAGTGGTGTCCAAGG
 CTCGCTGTCGCTCCCTAGCTGAGCTGGCTCCTGTGGCTGCAGTACATGGACTGGTCTAGCTGGGGCC
 CCATAGTCCCTGCTCCCGATCCTGTGGAGAGGTGTGATTACCAGGAGGGTGGTGAACAACCCAGG
 CCTGCATTTGGGGACGTGCATGTGTGGGTGAAGACCTCCAGGCTAAGATGTGCAACACGCAGGCTTGTG
 AGAAGACTCAGCTGGAGTTCATGTCCGAGCAGTGTGCCAGACAGACAGACAACCACTGCAACTTTCCCA
 AGGCACTGCCTCCTTCTACCACTGGGATGCTGCTGTGCAGTATAGTCAAGGAGATACCCTGTGCAGACAC
 ATGTGCTGGGCTGTTGGAGAAAGCTTATTGTACGCCGTGGGGACAGGTTCTAGATGGGACCCGTTGTG



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TGCCAAGTGGTCCTCAGGATGATGGGACCCTAAGCCTCTGTTTGTGGGCAGCTGCAGGACCTTTGGCTG
 TGATGGCAGGATGGACTCCCAGAAGGTTTGGGATGCGTGCCAGGTGTGTGGAGGAGACAACAGCACCTGC
 AGCTCACGGAAATGGTTCTTTACAGCTGGGAGAGCCAGAGAATATGTCACGTTCTTGATTGTTACTCCCA
 ACATGACCAACGCACACATTGTCAACCCGAGGCCCTCTCTTACACACTGGGTGAGATGCCAGAGGATCC
 TTCCTTGTACTTAGCCACTGATTTCTTAGTCTTCGAGATGCCTCCACCCCTAACACCTGGTGCCTGGTGG
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 ACAGACGATATGGAGGAGAATATGGGGATCTTACACACCCAGACATCACCTTTTCTACTTTCAACTGAA
 GCAGCAGGCAGCCTGGGTATGGACCGCTAAGCGTGGACCCTGCTCAGTGAGCTGTGGGGCAGGGCTGCGC
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 CACAGCCACCTGCATGGCAAGAGCCTTGTGTCTGTGCCCTGCTCCCATATTGGGTAGCTGGGGACTT
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 GGCTTCTTAAAGACACTGCCACCTGCCCGGTGCAGAGCAGTAGCCAGCAGCCAGCAGCAGAAGTGGAAA
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 GCAGGCCCTGCCGACCCGACGAGATGTACGCTATGCTGGAGCCCTGCTCCAGGAGCCTGTGTTCTCCAG
 GCTTGGGTGAGGTGGACAACACCATGTCTCTGGGAGAGGAGGCTCCATCCCCGGTGGGCAGTGACAAGCC
 AGGGGCTCAGGCTGAGCATGTGTGGACCCTCTGGTGGGGCTGTGCTCCATCTCTTGTGGGAGAGGTCTG
 AAGGAACTGTATTTCTGTGCATGGATTCTGCTCTCAAAATGCCTGTCCAGGAAGAGCTATGCGGCTTGG
 CTAGTAAGCCCCCAAGCCGGTGGGAGGTCTGCAGGGCTCGCCCTGTCTGCTCGGTGGGAGACTCAAGT
 CTTGGCACCGTGGCCGGTACCTGTGGTGGGGGGCAGTGCCTACTGTCTGTTCTGTTGTGTGCAGCTAGAC
 CGTGGCCACCCGATATCTGTACCTCACTCAAGTGTCTCGCCAGTGCCTAAGCCAGGCTCCTTCGAGGACT
 GCAGCCCTGAGCCTTGTCTGCTAGGGCACTAGTGTGGGAAGCCGCCCCACATTGCGCGTACAAGATG
 CGC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231498 representing NM_001290465
 Red=Cloning site Green=Tags(s)

MSQLCLWLTCQPCYAVSVRGILTGAIFILGCWGLSDFQKSLQLDLEPKDVSSYFGHHAAPFTGHPPSHLQ
 RLRRRRRTLEDILHLELLVAVGPDVSRHQEDTERYVLTNLNIGSELLRNPSLGVQFQVHLVKLITLSDSE
 STPNITANITSSLMSVCEWSQITNPHDDRDPHADLILYITRFDELPDGNQQVRGVTQLGGACSLSWSC
 LITEDTGFDLGVTIAHEIGHSFGLDHDGAPGSGSTCKASGHVMAADGATPTGGTLEWSACSQRQLQHLLS
 TGQMHCQDPPGLQSGLTRHQLMAQPGLYYSADDQCRVAFGSGAVACTFSREGLDVCQALSCHTDPLDQS
 SCSRLLVPLLDGTECGVEKWCSKARCRSLAELAPVAAVHGHWSWPHSPCSRSCGGGVI TRRRWCNNPR
 PAFGGRAVCGEDLQAKMCNTQACEKTQLEFMSEQAQTDRQPLQLSQGTASFYHWDAAVQYSQGDTLCRH
 MCWAVGESFIVSRGDRFLDGTRCVPSGPQDDGTLCLLGCRTFGCDGRMDSQKVDACQVCGGDNSTC
 SSRNGSFTAGRAREYVTFIVTPNMTNAHIVNRRPLFTHLGEMPEPSLYLATDFLVFEMPPLTPGAWW
 EKPNPDPPLRAATLAKLIPGKYVRRYGGEGDLTHPDITFSYFQLKQQAAWVWAKRGPSPVSCGAGLR
 WVTYSQDQAQDKWVKNAQCQGSPPAWQEPVCSAPCSYVWAGDFSPCSVSCGGGLRERSLRVETQD
 GFLKTLPPARCRAVAQQPAAEVENCNCSQPCPTRWEVSDPGMSSACEAGLDSRNVTCVSRAGDPEKPEP
 AGPCRTDEMSAMLEPCSRSLCSPGLQVDNTMSLGEEAPSPVGSDDKPGAQAEHVWTPVLGLCSISCGRGL
 KELYFLCMDSVLKMPVQEELCGLASKPPSRWEVCRARPCPARWETQVLAQCPVTCGGGRVPLSVRCVQLD
 RGHPISVPHSKCSPVPKPGSFECDSPPCPARALVWEAAPTFAVTRWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<u>NM_001290465.1, NP_001277394.1</u>
RefSeq Size:	3447 bp
RefSeq ORF:	3087 bp
Locus ID:	279028
Cytogenetics:	2 A3
MW:	112.2 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. In certain mouse strains (C57BL/6, for example) an intracisternal A-type particle (IAP) retrotransposon sequence is located in the intron 23 that causes an alternate splicing event resulting in a shorter transcript variants encoding shorter isoforms. The encoded preproprotein undergoes proteolytic processing to generate an active enzyme that cleaves von Willebrand factor (VWF) in circulating blood. [provided by RefSeq, Jul 2016]