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Product datasheet for MR231513

Adamts13 (NM_001290464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts13 (NM_001290464) 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:	>MR231513 representing NM_001290464 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGCCAGCTTTGCCTGTGGTTGACGTGCCAGCCTTGTTATGCTGTCAGTGTCAGAGGAATCCTCACTG GTGCCATCTTCATTCTGGGCTGCTGGGGGCTCTCTGACTTCCAGAAGAGTCTTCTTCAAGATCTGGAGCC CAAGGATGTGTCTTCTTACTTTGGCCACCATGCTGCTCCATTCACAGGCCATCCTCCCTCTCACCTCCAG AGACTGAGACGGAGAAGGACTTTGGAGGACATTCTGCACCTGGAACTCCTGGTAGCTGTGGGCCCCGATG TTTCCCGGGCTCATCAGGAGGACACAGAACGCTACGTGCTCACTAATCTCAATATCGGGTCAGAACTGTT GAGAAACCCATCCCTGGGAGTCCAGTTCCAGGTGCACCTGGTGAAGCTAATCACCCTCTCTGACTCAGAG AGTACTCCGAATATCACGGCCAACATCACCTCATCCTTGATGAGCGTCTGCGAGTGGAGCCAGACGATCA ACCCCCACGATGACAGGGATCCAAGTCACGCTGACCTGATTCTCTATATCACCAGGTTTGACCTGGAGTT GCCTGATGGCAACCAGCAGGTTCGGGGTGTCACCCAGCTGGGAGGTGCCTGCTCCCTTTCCTGGAGTTGC CTTATCACTGAGGATACTGGCTTTGACCTGGGGGTCACCATCGCCCATGAGATTGGGCACAGCTTCGGGC TGGACCATGATGGTGCTCCAGGTAGTGGCAGCACCTGCAAGGCCAGTGGCCACGTGATGGCGGCTGATGG CGCAACACCTACTGGAGGGACCCTGGAGTGGTCTGCCTGCAGCCAAAGGCAGTTGCAGCACCTACTCAGC ACAGGGCAAATGCACTGCTTCCAGGACCCACCTGGGCTGCAGTCAGGACTTACACGGCACCAGCTGATGG CACAGCCTGGCCTCTACTACAGTGCAGATGATCAGTGCCGTGTGGCTTTCGGTTCTGGGGCTGTCGCCTG CACCTTCTCCAGGGAGGGTCTGGATGTATGCCAGGCCCTGTCCTGCCACACAGACCCCTTGGACCAAAGC AGCTGCAGCCGCCTCCTTGTTCCTCTCCTGGATGGGACAGAATGTGGTGTGGAGAAGTGGTGCTCCAAGG CTCGCTGTCGCTCCCTAGCTGAGCTGGCTCCTGTGGCTGCAGTACATGGACACTGGTCTAGCTGGGGCCC CCATAGTCCCTGCTCCCGATCCTGTGGAGGAGGTGTGATTACCAGGAGGCGGTGGTGCAACAACCCCAGG CCTGCATTTGGGGGACGTGCATGTGTGGGTGAAGACCTCCAGGCTAAGATGTGCAACACGCAGGCTTGTG AGAAGACTCAGCTGGAGTTCATGTCCGAGCAGTGTGCCCAGACAGACAGACAACCACTGCAACTTTCCCA AGGCACTGCCTCCTTCTACCACTGGGATGCTGCTGTGCAGTATAGTCAAGGAGATACCCTGTGCAGACAC ATGTGCTGGGCTGTTGGAGAAAGCTTCATTGTCAGCCGTGGGGACAGGTTCCTAGATGGGACCCGTTGTG

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TGCCAAGTGGTCCTCAGGATGATGGGACCCTAAGCCTCTGTTTGTTGGGCAGCTGCAGGACCTTTGGCTG
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Protein Sequence:

>MR231513 representing NM_001290464
Red=Cloning site Green=Tags(s)

MSQLCLWLTCQPCYAVSVRGILTGAIFILGCWGLSDFQKSLLQDLEPKDVSSYFGHHAAPFTGHPPSHLQ
RLRRRRTLEDILHLELLVAVGPDVSRAHQEDTERYVLTNLNIGSELLRNPSLGVQFQVHLVKLITLSDSE
STPNITANITSSLMSVCEWSQTINPHDDRDPSHADLILYITRFDLELPDGNQQVRGVTQLGGACSLSWSC
LITEDTGFDLGVTIAHEIGHSFGLDHDGAPGSGSTCKASGHVMAADGATPTGGTLEWSACSQRQLQHLLS
TGQMHCFQDPPGLQSGLTRHQLMAQPGLYYSADDQCRVAFGSGAVACTFSREGLDVCQALSCHTDPLDQS
SCSRLLVPLLDGTECGVEKWCSKARCRSLAELAPVAAVHGHWSSWGPHSPCSRSCGGGVITRRRWCNNPR
PAFGGRACVGEDLQAKMCNTQACEKTQLEFMSEQCAQTDRQPLQLSQGTASFYHWDAAVQYSQGDTLCRH
MCWAVGESFIVSRGDRFLDGTRCVPSGPQDDGTLSLCLLGSCRTFGCDGRMDSQKVWDACQVCGGDNSTC
SSRNGSFTAGRAREYVTFLIVTPNMTNAHIVNRRPLFTHLAVRIQGHYIVAGKTSISPNTTYPSLLEDYR
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SLRCVETQDGFLKTLPPARCRAVAQQPAAEVENCNSQPCPTRWEVSDPGPCMSSACEAGLDSRNVTCVSR
AGDPEKPETAGPCRTDEMSAMLEPCSRSLCSPGLGQVDNTMSLGEEAPSPVGSDKPGAQAEHVWTPLVGL
CSISCGRGLKELYFLCMDSVLKMPVQEELCGLASKPPSRWEVCRARPCPARWETQVLAPCPVTCGGGRVP
LSVRCVQLDRGHPISVPHSKCSPVPKPGSFEDCSPEPCPARALVWEAAPTFAVTRWR

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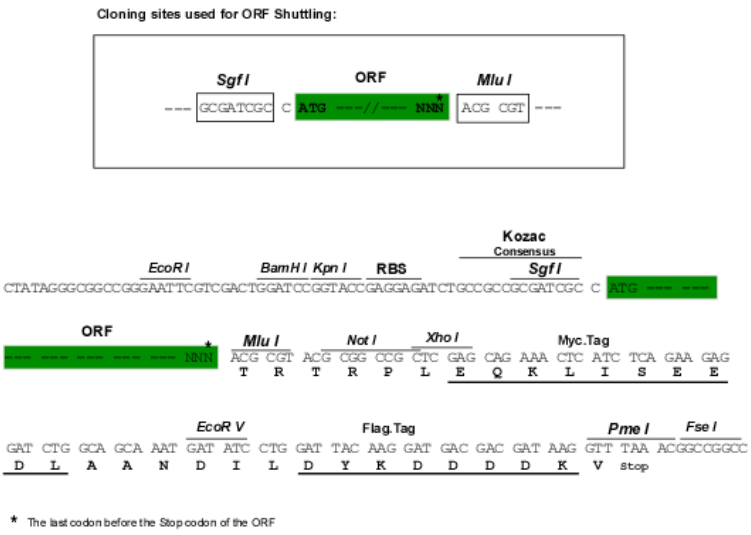
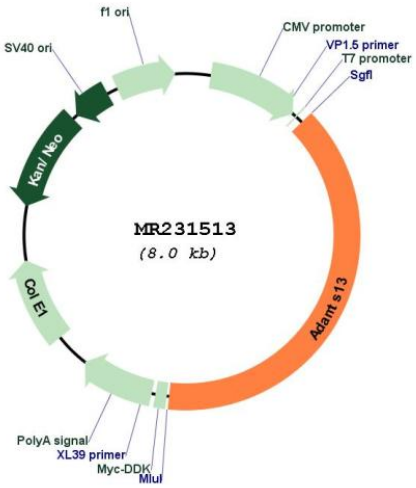
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290464

ORF Size: 3111 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).
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_001290464.1, NP_001277393.1
RefSeq Size:	3474 bp
RefSeq ORF:	3114 bp
Locus ID:	279028
Cytogenetics:	2 A3
MW:	113.5 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]