

Product datasheet for **RG219891**

ADAMTS14 (NM_139155) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTS14 (NM_139155) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAMTS14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219891 representing NM_139155 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCACTCCGCGCGCTGCTGTCTACCTGCTGCCTTTGCACTGTGCGCTCTGCGCCGCCGCGGGCA
GCCGGACCCAGAGCTGCACCTCTCTGGAAGCTCAGTGACTATGGTGTGACAGTGCCCTGCAGCACAGA
CTTTGGGGACGCTTCTCTCCACGTGGTGTCTGGCCAGCAGCAGCCTCTGCAGGGAGCATGGTAGTG
GACACGCCACCCACACTACCACGACACTCCAGTCACCTCCGGGTGGCTCGCAGCCCTCTGCACCCAGGAG
GGACCCCTGTGGCCTGGCAGGGTGGGGCGCACTCCCTCTACTTCAATGTCACTGTTTTCGGGAAGGAAT
GCACTTGCCTGCGCCCAATCGGAGGTTGGTAGTGCCAGGATCCTCAGTGGAGTGGCAGGAGGATTTT
CGGGAGCTGTTCCGCGAGCCCTTACGGCAGGAGTGTGTGTACACTGGAGGTGTCACTGGAATGCCTGGGG
CAGCTGTTGCCATCAGCAACTGTGACGGATTGGCGGGCCTCATCCGCACAGACAGCACCGACTTCTTCAT
TGAGCCTCTGGAGCGGGGCCAGCAGGAGAAGGAGGCCAGCGGGAGGACACATGTGGTGTACCGCCGGGAG
GCCGTCCAGCAGGAGTGGGCAGAACCTGACGGGGACCTGCACAATGAAGCCTTTGGCCTGGGAGACCTTC
CCAACCTGCTGGGCTGGTGGGGACAGCTGGGCGACACAGAGCGGAAGCGCGGCATGCCAAGCCAGG
CAGCTACAGCATCGAGGTGCTGCTGGTGGTGGACGACTCGGTGGTTCGCTTCCATGGCAAGGAGCATGTG
CAGAACTATGTCCTCACCTCATGAATATCGTAGATGAGATTTACCACGATGAGTCCCTGGGGTTTCATA
TAAATATTGCCCTCGTCCGCTTGATCATGGTTGGCTACCGACAGTCCCTGAGCCTGATCGAGCGCGGGAA
CCCCTCACGCAGCCTGGAGCAGGTGTGTGCTGGGCACACTCCCAGCAGCGCCAGGACCCAGCCACGCT
GAGCACCATGACCACGTTGTGTTCTCACCCGGCAGGACTTTGGGCCCTCAGGTATGCAAGGGTATGCAC
CCGTCACTGGCATGTGTACCCCTGAGGAGCTGTGCCCTCAACCATGAGGATGGCTTCTCTCAGCCTT
CGTGATAGCTCATGAGACCGCCACGTGCTCGGCATGGAGCATGACGGTCAGGGGAATGGCTGTGCAGAT
GAGACCAGCCTGGGCAGCGTCATGGCGCCCTGGTGCAGGCTGCCTTCCACCGCTTCCATTGGTCCCCTG
GCAGCAAGCTGGAGCTCAGCCGCTACCTCCCCTCTACGACTGCCTCCTCGATGACCCCTTTGATCCTGC
CTGGCCCCAGCCCCAGAGCTGCCTGGGATCACTACTCAATGGATGAGCAGTCCCGCTTTGACTTTGGC
AGTGGCTACAGACCTGCTTGGCATTAGGACCTTTGAGCCCTGCAAGCAGCTGTGGTGACGCATCCTG
ACAACCCGTACTTCTGCAAGACCAAGAAGGGGCCCGCTGGATGGGACTGAGTGTGCACCCGGCAAGTG



[View online »](#)

GTGCTTCAAAGGTCACCTGCATCTGGAAGTCGCCGGAGCAGACATATGGCCAGGATGGAGGCTGGAGCTCC
TGGACCAAGTTTGGGTTCATGTTCCGGTCATGTGGGGCGGGGTGCGATCCCGCAGCCGGAGCTGCAACA
ACCCCTCCCCAGCCTATGGAGGCCGCCGTGCTTAGGGCCCATGTTTCGAGTACCAGGTCTGCAACAGCGA
GGAGTGCCTGGGACCTACGAGGACTTCCGGGCCAGCAGTGTGCCAAGCGCAACTCGTACTATGTGCAC
CAGAATGCCAAGCACAGCTGGGTGCCCTACGAGCCTGACGATGACGCCCAGAAGTGTGAGCTGATCTGCC
AGTCGGCGGACACGGGGACGTGGTGTTCATGAACCAGGTGGTTCACGATGGGACACGCTGCAGCTACCG
GGACCCATACAGCGTCTGTGCGCGTGGCGAGTGTGCTGTGCGCTGTGACAAGGAGGTGGGGTCCATG
AAGGCGGATGACAAGTGTGGAGTCTGCGGGGTGACAACCTCCCACTGCAGGACTGTGAAGGGGACGCTGG
GCAAGGCTCCAAGCAGGAGGAGCTCTCAAGCTGGTGCAGATCCAGCAGGTGCCAGGCACATCCAGAT
TGAGGCACTGGAGAAGTCCCCCACCATTGTGGTGAAGAACCAGGTACCCGGCAGCTTCATCCTCAAC
CCCAAGGGCAAGGAAGCCACAAGCCGACCTTACCGCCATGGGCTGGAGTGGGAGGATGCGGTGGAGG
ATGCCAAGGAAAGCCTCAAGACCAGCGGGCCCTGCCTGAAGCCATTGCCATCCTGGCTCTCCCCCAAC
TGAGGGTGGCCCCGAGCAGCCTGGCCTACAAGTACGTATCCATGAGGACCTGCTGCCCTTATCGGG
AGCAACAATGTGCTCCTGGAGGAGATGGACACCTATGAGTGGGCGCTCAAGAGCTGGGCCCCCTGCAGCA
AGGCCTGTGGAGGAGGATCCAGTTCACCAAATACGGCTGCCGGCGCAGACGAGACCACCATGTTGCA
GCGACACCTGTGTGACCACAAGAAGAGGCCCAAGCCATCCGCCGCGCTGCAACCAGCACCCGTGCTCT
CAGCCTGTGTGGGTGACGGAGGAGTGGGGTGCCTGCAGCCGGAGCTGTGGGAAGCTGGGGGTGCAGACAC
GGGGGATACAGTGCCTGCTGCCCTCTCCAATGGAACCCACAAGGTATGCCGGCCAAAGCTGCGCCGG
GGACCGGCTGAGGCCGACGGCCCTGTCTCCGAGTGCCTGCCAGCCAGTGGAGGCTGGGAGCCTGG
TCCCAGTGCTCTGCCACCTGTGGAGAGGGCATCCAGCAGCGGCAGGTGGTGTGCAGGACCAACGCCAACA
GCCTCGGCATTGCGAGGGGGATAGGCCAGACACTGTCCAGGTCTGCAGCCTGCCCGCTGTGGAGGAAA
TCACCAGAATCCACGGTGAAGGCGCATGTCTGGGAACCTGGGACGCCAGAGGGGAGTGGGTGCCACAA
TCTGAACCCCTACATCCCATTAACAAGATATCATCAACGGAGCCCTGCACGGGAGACAGGTCTGTCTTCT
GCCAGATGGAAGTGTCTGATCGCTACTGTCTCATTCCCGGCTACCACCGGCTCTGTGTGTCTCTGCAT
CAAGAAGGCTCGGGCCCCAACCTGGCCAGACCTGGCCCAACCTCACTGCCCCCTTCTCCACTCCT
GGAAGCCCTTACCAGGACCCAGGACCTGCAGATGCTGCAGAGCCTCCTGGAAGCCAAACGGGATCAG
AGGACCATCAGCATGGCCGAGCCACACAGCTCCCAGGAGCTCTGGATACAAGCTCCCAGGGACCCAGCA
TCCCTTTGCCCTGAGACACCAATCCCTGGAGCATCCTGGAGCATCTCCCTACCACCCCGGGGGCTG
CCTTGGGGCTGGACTCAGACACCTACGCCAGTCCCTGAGGACAAAGGGCAACCTGGAGAAGACCTGAGAC
ATCCCGGCACAGCCTCCCTGTGCTCCCGGTGACA

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

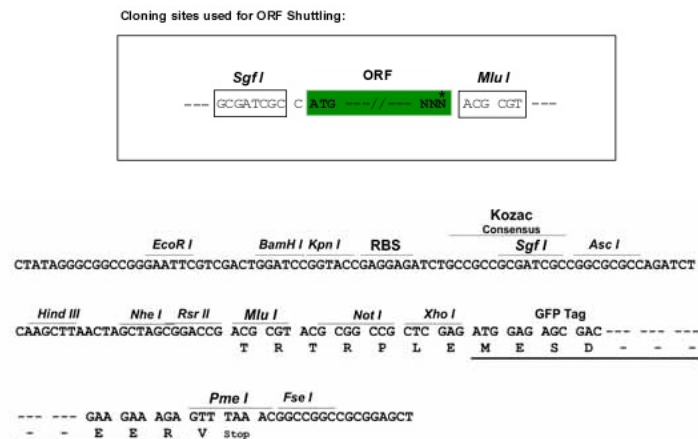
Protein Sequence: >RG219891 representing NM_139155
Red=Cloning site Green=Tags(s)

MAPLRALLSYLLPLHCALCAAAGSRTPELHL SGKLSDYGVTVPCSTDFRGRFLSHVVS GPAAASAGSMV
DTPPTLPRHSSHLRVARSPLHPGGTLWPGRVGRHSLYFNVTVF GKELHLRLRPNRRLVVP GSSVEWQEDF
RELFRQPLRQECVYTGGVTGMPGA AVAISNCDGLAGLIRTDSTDF FIEPLERGQQEKEASGRTHVYRRE
AVQQEWAEPDGD LHNEAFGLGDL PNLLGLVGDQLG DTERKRRHAKPGSYSIEVLLV VDDSVVRFHGKEHV
QNYVLTLMNI VDEIYHDESLGVHINIALVRLIMVGYRQSLSLIERGNPSRSLEQVCRWAHSQQRQDP SHA
EHHDHVFLTRQDFGPSGMQGYAPVTGMCHPLRSCALNHEDGFSSAFVIAHETGHVLMGMEHDGQNGCAD
ETSLGSVMAPLVQAA FHRFHWSRCSKLELSRYLPSYDCLLDDPFDPAWPQPPELPGINYSMDEQCRDFG
SGYQTCLAFRTFEPCKQLWCSHPDNPFYCKTKKGPPLDGTECAPGKWC FKGHCIWKSPEQTYGQDGGWSS
WTKFGSCSRSCGGGVRSRSRSCNNPSPAYGGRPCLGPMFEYQVCNSEECPGTYEDFRAQQCAKRNSYYVH
QNAKHSWVPYEPDDDAQKCELCQSADTGDVVF MNQVVHDGTRCSYRDPYSVCARGECVPVGC DKEVGSM
KADDKCGVCGD NSHCRTVKGT LGKASKQAGALKLVQIPAGARHIQIEALEKSPHRIVVKNQVTGSFILN
PKGKEATSRTFTAMGLEWEDAVEDAKESLKTSGPLPEAIAILALPPTEGGPRSSLAYKYVIHEDLLPLIG
SNNVLLEEMDTYEWALKSWAPCSKACGGGIQFTKYGCRRRRDHMMVQRHLCDHKKRPKPIRRRCNQHPCS
QPVWVTEWGA CSRSCGKLG VQTRGIQCLLPLSNGTHKVM PAKACAGDRPEARPCLRVPCPAQWRLGAW
SQCSATCGEGIQQRQVVCR TNANSLGHCEGDRPDTVQVCSLPACGGNHQNSTVRADVWELGTPEGQWVPQ
SEPLHPINKISSTEPCTGDRSVFCQMEVLD RYCSIPGYHRLCCVSCIKKASGPNPGDPGPTSLPPFSTP
GSPLPGPQDPADAAEPGKPTGSEDHQHGRATQLPGALDTSSPGTQHPFAPETPIPGASWSISPTTPGGL
PWGWTQTPTPVPEDKGQPGEDLRHPGTS LPAASPVT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

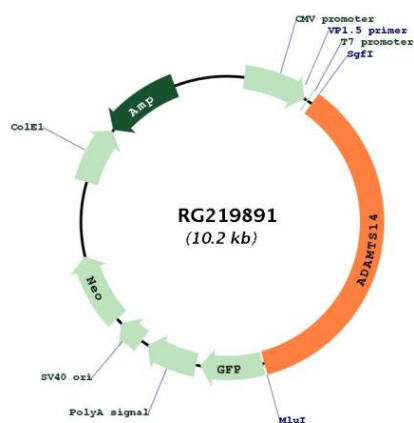


ACCN: NM_139155

ORF Size: 3678 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_139155.1 , NP_631894.1
RefSeq Size:	3730 bp
RefSeq ORF:	3681 bp
Locus ID:	140766
UniProt ID:	Q8WXS8
Cytogenetics:	10q22.1
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme cleaves amino-terminal propeptides from type I procollagen, a necessary step in the formation of collagen fibers. Mutations in this gene may be associated with osteoarthritis in human patients. [provided by RefSeq, May 2016]

Product images:



Circular map for RG219891