

Product datasheet for RC219947

ADAMTS14 (NM_080722) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: ADAMTS14 (NM_080722) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: ADAMTS14
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RC219947 representing NM_080722
 Red=Cloning site Blue=ORF Green=Tags(s)

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TTTGGGTCATGTTTCGCGGTCATGTGGGGCGGGGTGCGATCCCGCAGCCGGAGCTGCAACAACCCCTCCC
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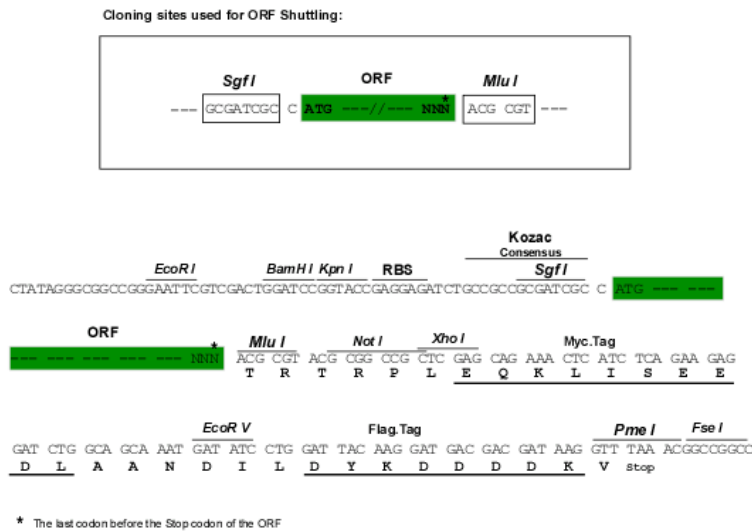
Protein Sequence: >RC219947 representing NM_080722
 Red=Cloning site Green=Tags(s)

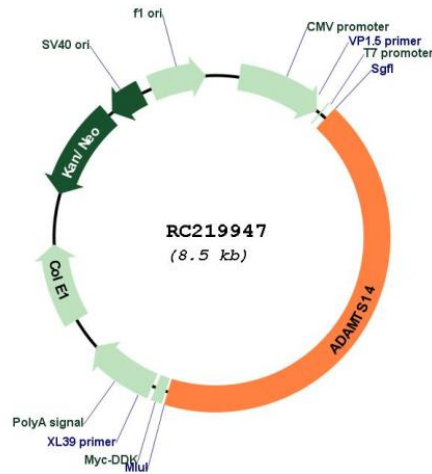
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 SATCGEGIQQRQVVCR TNANSLGHCEGDRPDTVQVCSLPACGGNHQNSTVRADVWELGTP EGQWVPQSEP
 LHPINKISSTEPCTGDRSVFCQMEVLDRYCSIPGYHRLCCVSCI KASGPNP GPDGPTSLPPFSTPGSP
 LPGPQDPADAAEPPGKPTGSEDHQHGRATQLPGALDTS SPGTQHPFAPETPIPGASWSISPTTPGGLPWG
 WTQTPTVPEDKGPGEDLRHPGTSLPAASPV T

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_080722

ORF Size: 3669 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_080722.4](#)

RefSeq Size: 5260 bp

RefSeq ORF: 3672 bp

Locus ID: 140766

UniProt ID: [Q8WXS8](#)

Cytogenetics: 10q22.1

Protein Families: Druggable Genome

MW: 133.9 kDa

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]