

Product datasheet for RC209226L3

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ADAMTS4 (NM_005099) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ADAMTS4 (NM_005099) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: ADAMTS4

Synonyms: ADAMTS-2; ADAMTS-4; ADMP-1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC209226).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_005099

ORF Size: 2511 bp





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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: <u>NM 005099.3</u>

 RefSeq Size:
 4342 bp

 RefSeq ORF:
 2514 bp

 Locus ID:
 9507

 UniProt ID:
 O75173

 Cytogenetics:
 1q23.3

Protein Families: Druggable Genome, Protease, Secreted Protein, Transmembrane

MW: 90 kDa

Gene Summary: This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with

thrombospondin motifs) protein family. Members of this 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 enzyme

encoded by this gene lacks a C-terminal TS motif. The encoded preproprotein is

proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an

isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]