OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC208512

ADAMTSL2 (NM_014694) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAMTSL2 (NM_014694) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAMTSL2
Synonyms:	ADAMTSL-2; GPHYSD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208512 representing NM_014694
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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CCAAGCGGTACCAGCTCTGCAGAGTGCAGGAGTGTCCGCCGGACGGGAGGAGCTTCCGCGAGGAGCAGTG
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208512 representing NM_014694
Red=Cloning site Green=Tags(s)

MDGRWQCSCWAWFLLVLAVVAGDTVSTGSTDNSPTSNSLEGGTDATAFWWGEWTKWTACSRSCGGGVTSQ
ERHCLQQRRKSVPGPGNRTCTGTSKRYQLCRVQECPPDGRSFREEQCVSFNSHVYNGRTHQWKPLYPDDY
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SPADMYRWKLSSHEPCSATCTTGVMSAYAMCVRYDGVEVDDSYCDALTRPEPVHEFCAGRECQPRWETSS
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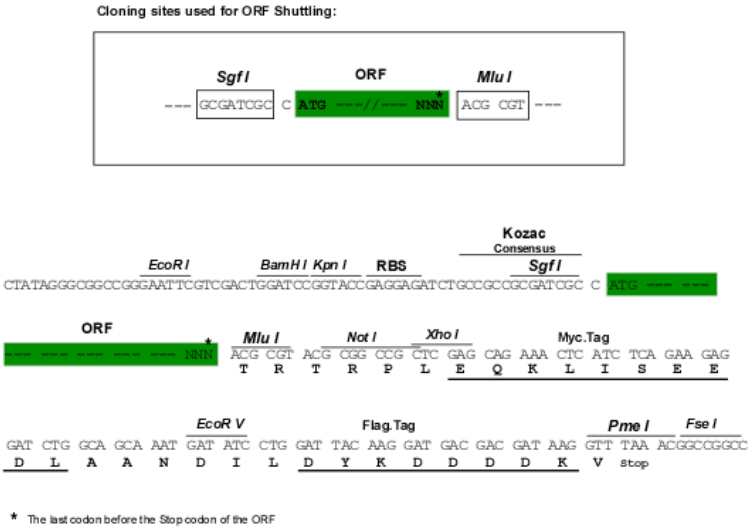
CGERSVVTRDIRCSEDEKLCDPNTRPVGEKNCTGPPCDRQWTVSDWGPCSGSCGQGRTIRHVYCKTSDGR
VVPESQCQMETKPLAIHPCGDKNCPAHWLAQDWERCNTTCGRGVKKRLVLCMELANGKPQTRSGPECGLA
KKPPEESTCFERPCFKWYTSPWSECTKTCGVGVRMRDVKCYQGTDIVRGCDPLVKPVGRQACDLQPCPTE
PPDDSCQDQPGTNCALAIKVNLCGHWYYSKACCRSCRPPHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8100_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

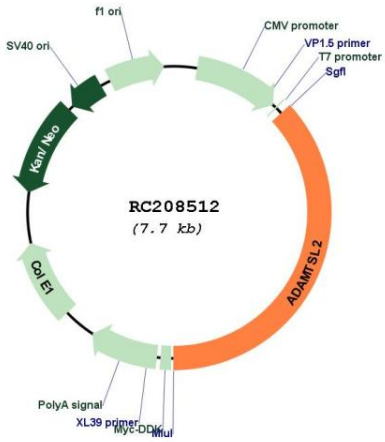


ACCN: NM_014694

ORF Size: 2853 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_014694.4
RefSeq Size:	3740 bp
RefSeq ORF:	2856 bp
Locus ID:	9719
UniProt ID:	Q86TH1
Cytogenetics:	9q34.2
Domains:	tsp_1
Protein Families:	Secreted Protein
MW:	104.6 kDa
Gene Summary:	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) and ADAMTS-like 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 protein encoded by this gene lacks the protease domain, and is therefore of a member of the the ADAMTS-like protein subfamily. It is a secreted glycoprotein that binds the cell surface and extracellular matrix; it also interacts with latent transforming growth factor beta binding protein 1. Mutations in this gene have been associated with geleophysic dysplasia. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RC208512