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 MG210929

Adamts4 (NM_172845) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamts4 (NM_172845) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adamts4
Synonyms:	ADAM-; ADAM-TS4; ADAMTS-2; ADMP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG210929 representing NM_172845
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCAGATGGGCTTGCATCCCAGGAGGGGCTTGACTGGGCACTGGCTGCGAAGATTCCAACCCTGCT
TGCCGCTTCACACTGTGCAGTGGCGGAGGCTGCTGCTGCTGGCCTTCCTCCTGTCCTTAGCGTGGCCCGC
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ACAGTTTCTTTGTCCCGCGGCCAGTCCCTTCAACACCACGCCCTCCTCCCCAAGACTGGCTGCAACGCAG
GGCAGAGATACTGAAAATCCTTCGGAAGCGTCCCTGGGCAGGCCGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

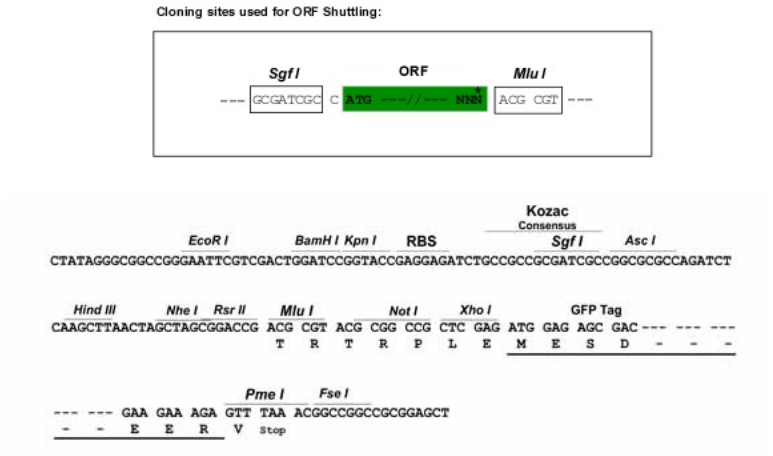
>MG210929 representing NM_172845
Red=Cloning site Green=Tags(s)

MSQMGLHPRRGLTGHWLRRFQPCLPLHTVQWRRLLLLAFLLSLAWPASPLPREEEIVFPEKLNGSSILPG
SGVPARLLYRLPAFGEMLLLELEQDPGVQVEGLTVQYLGQAPEMLGGAEPGTYLTGTINGDPESVASLHW
DGGALLGVLQYRGAELHLQPLEGGALNSAGGPGAHILRRKSPASSQGPMCTVKAPSGSPSPISRRTKRFA
SLSRFVETLVVADDKMAAFHGTGLKRYLLTVMAAAAKAFKHPSIRNPVNLVVTRLVILGSGQEGPQVGPS
AAQTLRSFCTWQRGLNTPNDSDPDHFDTAILFTRQDLCGVSTCDTLGMADVGTVCDPARSCAIVEDDGLQ
SAFTAAHELGHVFNMLHDNSKPCTNLNGQGGSSRHVMAPVMAHVDPEEPWSPCSARFITDFLDNGYGHCL
LDKPEAPLHLPATFPGKDYDADRQCQLTFGPDSSHCPQLPPPCAALWCSGHLNGHAMCQTKHSPWADGTP
CGSSQACMGGRCLHVDQLKDFNVPQAGGWGPWGPWGDCSRTCGGGVQFSSRDCTRPVPRNGGKYCEGRRT
RFRSCNTENCPHGSALTFREEQCAAYNHRTDLFKSFPGPMDWVPRYTGVAPRDQCKLTCQARALGYYYVL
EPRVADGTPCSPDTSSVCVQGRCIHAGCDRIIGSKKKFDKCMVCGGDGSRCSKQSGSFKKFRYGYSDVVT
IPAGATHILVRQQGGSGLKSIYLALKLSDGSYALNGEYTLMPSPTDVVLPGAVSLRYSGATAASETLSGH
GPLAQPLTLQVLVAGNPQNARLRYSFFVPRPVPSTPRPPPQDWLQRRAEILKILRKRPWAGRK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

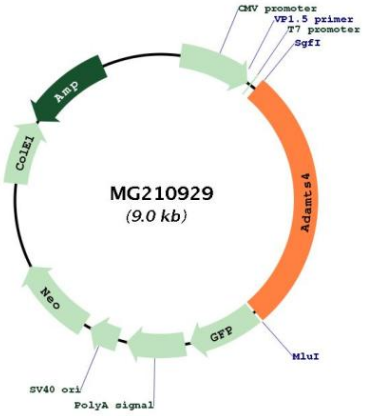
Cloning Scheme:



ACCN:	NM_172845
ORF Size:	2499 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_172845.2, NP_766433.1
RefSeq Size:	3673 bp
RefSeq ORF:	2502 bp
Locus ID:	240913
UniProt ID:	Q8BNJ2
Cytogenetics:	1 79.28 cM
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. The encoded preproprotein undergoes proteolytic processing to generate an active zinc-dependent aggrecanase enzyme that degrades cartilage. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MG210929