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 SC125537

ADAM12 (NM_003474) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM12 (NM_003474) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM12
Synonyms:	ADAM12-OT1; CAR10; MCMP; MCMPMltna; MLTN; MLTNA
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_003474, the custom clone sequence may differ by one or more nucleotides

ATGGCAGCGCGCCCGCTGCCCGTGTCCCCCGCCCGCGCCCTCCTGCTCGCCCTGGCCGGTGCTCTGCTCG
CGCCCTGCGAGGCCCGAGGGGTGAGCTTATGGAACCAAGGAAGAGCTGATGAAGTTGTCAGTGCCTCTGT
TGGGAGTGGGGACCTCTGGATCCCAGTGAAGAGCTTCGACTCCAAGAATCATCCAGAAGTGCTGAATATT
CGACTACAACGGGAAAGCAAAGAACTGATCATAAATCTGGAAAGAAATGAAGGTCTCATTGCCAGCAGTT
TCACGGAAACCCACTATCTGCAAGACGGTACTGATGTCTCCCTCGCTCGAAATTACACGGTAATTCTGGG
TCACTGTTACTACCATGGACATGTACGGGGATATTCTGATTCAGCAGTCAGTCTCAGCACGTGTTCTGGT
CTCAGGGGACTTATTGTGTTTGAAAATGAAAGCTATGTCTTAGAACCAATGAAAAGTGCAACCAACAGAT
ACAAACTCTTCCCAGCGAAGAAGCTGAAAAGCGTCCGGGGATCATGTGGATCACATCACAACACACCAAA
CCTCGCTGCAAAGAATGTGTTTCCACCACCCTCTCAGACATGGGCAAGAAGGCATAAAAGAGAGACCCTC
AAGGCAACTAAGTATGTGGAGCTGGTGATCGTGGCAGACAACCGAGAGTTTCAGAGGCAAGGAAAAGATC
TGGAAAAAGTTAAGCAGCGATTAATAGAGATTGCTAATCACGTTGACAAGTTTTACAGACCACTGAACAT
TCGGATCGTGTTGGTAGGCGTGGAAGTGTGGAATGACATGGACAAATGCTCTGTAAGTCAGGACCCATTC
ACCAGCCTCCATGAATTTCTGGACTGGAGGAAGATGAAGCTTCTACCTCGCAAATCCCATGACAATGCGC
AGCTTGTCAGTGGGGTTTATTTCCAAGGGACCACCATCGGCATGGCCCCAATCATGAGCATGTGCACGGC
AGACCAGTCTGGGGGAATTGTCATGGACCATTCAGACAATCCCCTTGGTGCAGCCGTGACCCTGGCACAT
GAGCTGGGCCACAATTTCGGGATGAATCATGACACACTGGACAGGGGCTGTAGCTGTCAAATGGCGGTTG
AGAAAGGAGGCTGCATCATGAACGCTTCCACCGGGTACCCATTTCCCATGGTGTTCAGCAGTTGCAGCAG
GAAGGACTTGGAGACCAGCCTGGAGAAAGGAATGGGGGTGTGCCTGTTTAACCTGCCGGAAGTCAGGGAG
TCTTTCGGGGGCCAGAAGTGTGGGAACAGATTTGTGGAAGAAGGAGAGGAGTGTGACTGTGGGGAGCCAG
AGGAATGTATGAATCGCTGCTGCAATGCCACCACCTGTACCCTGAAGCCGGACGCTGTGTGCGCACATGG
GCTGTGCTGTGAAGACTGCCAGCTGAAGCCTGCAGGAACAGCGTGCAGGGACTCCAGCAACTCCTGTGAC
CTCCCAGAGTTCTGCACAGGGGCCAGCCCTCACTGCCCAGCCAACGTGTACCTGCACGATGGGCACTCAT
GTCAGGATGTGGACGGCTACTGCTACAATGGCATCTGCCAGACTCACGAGCAGCAGTGTGTCACGCTCTG
GGGACCAGGTGCTAAACCTGCCCCTGGGATCTGCTTTGAGAGAGTCAATTCTGCAGGTGATCCTTATGGC
AACTGTGGCAAAGTCTCGAAGAGTTCCTTTGCCAAATGCGAGATGAGAGATGCTAAATGTGGAAAAATCC
AGTGTCAAGGAGGTGCCAGCCGGCCAGTCATTGGTACCAATGCCGTTTCCATAGAAACAAACATCCCCCT
GCAGCAAGGAGGCCGGATTCTGTGCCGGGGGACCCACGTGTACTTGGGCGATGACATGCCGGACCCAGGG
CTTGTGCTTGCAGGCACAAAGTGTGCAGATGGAAAAATCTGCCTGAATCGTCAATGTCAAAATATTAGTG
TCTTTGGGGTTCACGAGTGTGCAATGCAGTGCCACGGCAGAGGGGTGTGCAACAACAGGAAGAACTGCCA
CTGCGAGGCCCACTGGGCACCTCCCTTCTGTGACAAGTTTGGCTTTGGAGGAAGCACAGACAGCGGCCCC
ATCCGGCAAGCAGATAACCAAGGTTTAACCATAGGAATTCTGGTGACCATCCTGTGTCTTCTTGCTGCCG
GATTTGTGGTTTATCTCAAAAGGAAGACCTTGATACGACTGCTGTTTACAAATAAGAAGACCACCATTGA
AAAACTAAGGTGTGTGCGCCCTTCCCGGCCACCCCGTGGCTTCCAACCCTGTCAGGCTCACCTCGGCCAC
CTTGGAAAAGGCCTGATGAGGAAGCCGCCAGATTCCTACCCACCGAAGGACAATCCCAGGAGATTGCTGC
AGTGTCAGAATGTTGACATCAGCAGACCCCTCAACGGCCTGAATGTCCCTCAGCCCCAGTCAACTCAGCG
AGTGCTTCCTCCCCTCCACCGGGCTCCACGTGCACCTAGCGTCCCTGCCAGACCCCTGCCAGCCAAGCCT
GCACTTAGGCAGGCCCAGGGGACCTGTAAGCCAAACCCCCCTCAGAAGCCTCTGCCTGCAGATCCTCTGG
CCAGAACAACTCGGCTCACTCATGCCTTGGCCAGGACCCCAGGACAATGGGAGACTGGGCTCCGCCTGGC
ACCCCTCAGACCTGCTCCACAATATCCACACCAAGTGCCCAGATCCACCCACACCGCCTATATTAAGTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003474 unedited
CGTATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACCAGGCGGCGCGGGCGCT
GCGCGAGGGCTCCGGAGCTGACTCGCCGAGGCAGGAAATCCCTCCGGTCGCGACGCCCGG
CCCCGGCTCGGCGCCCGCGTGGGATGGTGCAGCGCTCGCCGCCGGGCCCGAGAGCTGCTG
CACTGAAGGCCGGCGACGATGGCAGCGCGCCCGCTGCCCGTGTCCCCCGCCCGCGCCCTC
CTGCTCGCCCTGGCCGGTGCTCTGCTCGCGCCCTGCGAGGCCCGAGGGGTGAGCTTATGG
AACCAAGGAAGAGCTGATGAAGTTGTCAGTGCCTCTGTTGGGAGTGGGGACCTCTGGATC
CCAGTGAAGAGCTTCGACTCCAAGAATCATCCAGAAGTGCTGAATATTCGACTACAACGG
GAAAGCAAAGAACTGATCATAAATCTGGAAAGAAATGAAGGTCTCATTGCCAGCAGTTTC
ACGGAAACCCACTATCTGCAAGACGGTACTGATGTCTCCCTCGCTCGAAATTACACGGGT
CACTGTTACTACCATGGACATGTACGGGGATATTCTGATTCAGCAGTCAGTCTCAGCACG
TGTTCTGGTCTCAGGGGACTTATTGTGTTTGAAAATGAAAGCTATGTCTTANAACCAATG
AAAAGTGCAACCAACAGATACAAACTCTTCCCAGCGAAGAAGCTGAAAAGCGTCCGGNGA
TCATGTGGATCACATCACAACACACCAAACCTCGCTGCANAGAATGTGTTTCCACCACCC
TCTCAGACATGGGCAAGAAAGCATAAAAGAGAGACCCTCAAGGCACTAAGTATGTGGAGC
TGGTGATCGTGGCAGACAACCGAGAGCTTCAGAGGCAGGNANNAGATCTGCAAAAAGCTA
GCAGCGATAATAGAGATGCTAATCACGTGACAGTNTACGACACTGACANTCGNACGTGTG
GTAGCNTGGAATGTAATGACTGGCAATG

Restriction Sites: NotI-NotI

ACCN: NM_003474

Insert Size: 3050 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003474.3, NP_003465.3

RefSeq Size: 5504 bp

RefSeq ORF: 2730 bp

Locus ID: 8038

UniProt ID: O43184

Cytogenetics: 10q26.2

Domains: Reprolysin, DISIN, Pep_M12B_propep, ACR

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

Gene Summary: This gene encodes a member of a family of proteins that are structurally related to snake venom disintegrins and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. Expression of this gene has been used as a maternal serum marker for pre-natal development. Alternative splicing results in multiple transcript variants encoding different isoforms. Shorter isoforms are secreted, while longer isoforms are membrane-bound form. [provided by RefSeq, Jan 2014]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as ADAM12-Lb). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.