

## Product datasheet for **SC337345**

### ADAM12 (NM\_001288974) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM12 (NM_001288974) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM12
Synonyms:	ADAM12-OT1; CAR10; MCMP; MCMPMltna; MLTN; MLTNA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001288974, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCGCCCGCTGCCCGTGTCCCCCGCCGCGCCCTCTGCTCGCCCTGGCCGGTGTCTGCTCG
CGCCCTGCGAGGCCCGAGGGGTGAGCTTATGGAACCAAGGAAGAGCTGATGAAGTTGTCACTGCCTCTGT
TGGGAGTGGGGACCTCTGGATCCCAGTGAAGAGCTTCGACTCCAAGAATCATCCAGAAGTGTGAATATT
CGACTACAACGGGAAAGCAAGAAGTATGATCATAAATCTGGAAAGAAATGAAGGTCTCATTGCCAGCAGTT
TCACGGAAACCCACTATCTGCAAGACGGTACTGATGTCTCCCTCGCTCGAAATTACACGGGTCACTGTTA
CTACCATGGACATGTACGGGGATATTCTGATTCAGCAGTCAGTCTCAGCACGTGTTCTGGTCTCAGGGGA
CTTATTGTGTTTAAAAAGTAAAGCTATGTCTTAGAACCAATGAAAAGTGAACCAACAGATACAACTCT
TCCCAGCGAAGAAGCTGAAAAGCGTCCGGGGATCATGTGGATCACATCACAAACACACCAACCTCGCTGC
AAAGAATGTGTTCCACCACCCTCTCAGACATGGGCAAGAAGGCATAAAAGAGAGACCCTCAAGGCAACT
AAGTATGTGGAGCTGGTGTGTCGGCAGACAACCGAGAGTTTCAGAGGCAAGGAAAAGATCTGAAAAAG
TTAAGCAGCGATTAATAGAGATTGCTAATCACGTTGACAAGTTTACAGACCACTGAACATTCGGATCGT
GTTGGTAGGCGTGAAGTGTGGAATGACATGGACAATGTCTGTAAAGTCAAGACCCATTACCAGCCTC
CATGAATTTCTGGACTGGAGGAAGATGAAGCTTACCTCGCAAATCCCATGACAATGCGCAGCTTGTCAT
GTGGGGTATTATTTCCAAGGGACCACCATCGGCATGGCCCCAATCATGAGCATGTGCACGGCAGACCAGTC
TGGGGGAATTGTCATGGACCATTAGACAAATCCCTTGGTGCAGCCGTGACCCTGGCAGATGAGCTGGGC
CACAATTCGGGATGAATCATGACACACTGGACAGGGGCTGTAGCTGTCAAATGGCGGTTGAGAAAGGAG
GCTGCATCATGAACGCTCCACCAGGTACCCATTTCCATGGTGTTCAGCAGTTGCAGCAGGAAGGACTT
GGAGACCAGCCTGGAGAAAGGAATGGGGGTGTGCCTGTTAACTGCCGGAAGTCAGGGAGTCTTTCGGG
GGCCAGAAGTGTGGAAACAGATTTGTGGAAGAAGGAGAGGAGTGTGACTGTGGGGAGCCAGAGGAATGTA
TGAATCGCTGCTGCAATGCCACCACCTGTACCCTGAAGCCGACGCTGTGTGCGCACATGGGCTGTGCTG
TGAAGACTGCCAGCTGAAGCCTGCAGGAACAGCGTGCAGGGACTCCAGCAACTCCTGTGACCTCCCAGAG
TTCTGCACAGGGGCCAGCCCTCACTGCCAGCCAACTGTACCTGCACGATGGGCACTCATGTGAGGATG
TGGACGGCTACTGCTACAATGGCATCTGCCAGACTCACGAGCAGCAGTGTGTGACGCTCTGGGGACCAGG
TGCTAAACCTGCCCTGGGATCTGCTTTGAGAGAGTCAATTCTGCAGGTGATCCTTATGGCAACTGTGGC
AAAGTCTCGAAGAGTTCCTTTGCCAAATGCGAGATGAGAGATGCTAAATGTGGAAAAATCCAGTGTCAAG
GAGGTGCCAGCCGCCAGTCATTGGTACCAATGCCGTTTCCATAGAAAACAACATCCCCCTGCAGCAAGG
AGGCCGATTCTGTGCCGGGGACCCACGTGACTTGGGGCATGACATGCCGGACCCAGGGCTTGTGCTT
GCAGGCACAAAGTGTGCAGATGGAAAAATCTGCCTGAATCGTCAATGTCAAAATATTAGTGTCTTTGGGG
TTCACGAGTGTGCAATGCAGTGCCACGGCAGAGGGGTGTGCAACAACAGGAAGAAGTCCACTGCGAGGC
CCACTGGGCACCTCCCTTCTGTGACAAGTTTGGCTTTGGAGGAAGCACAGACAGCGGCCCATCCGGCAA
GCAGGGAAAGAAGCAAGGCAGGAAGCTGCAGAGTCCAACAGGGAGCGGGCCAGGGCCAGGAGCCCGTGG
GATCGCAGGAGCATGCGTCTACTGCCTCACTGACACTCATCTGA
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001288974

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001288974.1, NP_001275903.1</u>
<b>RefSeq Size:</b>	3417 bp
<b>RefSeq ORF:</b>	2214 bp
<b>Locus ID:</b>	8038
<b>UniProt ID:</b>	<u>O43184</u>
<b>Cytogenetics:</b>	10q26.2
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein, Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate in-frame splice site in the 5' coding region, lacks multiple 3' coding exons, and contains an alternate 3' terminal exon, resulting in a different 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (4) has a distinct C-terminus and is shorter than isoform 1.</p>