

## Product datasheet for **SC112924**

### ADAM28 (NM\_021777) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM28 (NM_021777) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM28
Synonyms:	ADAM 28; eMDC II; eMDCII; MDC-L; MDCL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC112924 sequence for NM\_021777 edited (data generated by NextGen Sequencing)

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ATGTTGCAAGGTCTCCTGCCAGTCAGTCTCCTCCTCTCTGTTGCAGTAAGTGCTATAAAA
GAACTCCCTGGGGTGAAGAAGTATGAAGTGTTTATCCTATAAGACTTCATCCACTGCAT
AAAAGAGAGGCCAAAGAGCCAGAGCAACAGGAACAATTTGAACTGAATTAAGTATAAAA
ATGACAATTAATGAAAAATTGCAGTGTCTTTATTTGAAAAAACAAGAACCCTCTTGCA
CCAGGCTACACGGAAACATATTATAATTCCACTGGAAAGGAGATCACCACAAGCCACAA
ATTATGGATGATTGTTATTATCAAGGACATATTCTTAATGAAAAGGTTTCTGACGCTAGC
ATCAGCACATGTAGGGTCTAAGGGGCTACTTCAGTCAGGGGGATCAAAGATACTTTATT
GAACCTTTAAGCCCCATACATCGGGATGGACAGGAGCATGCACTCTTCAAGTATAACCTT
GATGAAAAGAATTATGACAGCACCTGTGGGATGGATGGTGTGTTGTGGGCCACGATTTG
CAGCAGAACATTGCCCTACCTGCCACAACTAGTAAAATTGAAAGACAGGAAGGTTTCAG
GAACATGAGAAAACATAGAATATTATTTGGTCTGGATAATGGTGAGTTTAAAAGGTAC
AATGAGAAATCAAGATGAGATCAGAAAGAGGGTATTTGAGATGGCTAATTATGTCAACATG
CTTTATAAAAAGCTCAATACTCATGTGGCCTTAGTTGGTATGAAATCTGGACTGACAAG
GATAAGATAAAGATAACCCAAATGCAAGCTTACCTTGGAGAATTTTTCTAAATGGAGG
GGGAGTGTCTCTCAAGAAGAAAGCGTCATGATATTGCTCAGTTAATCACAGCAACAGAA
CTTGCTGGAACGACTGTGGGTCTTGCAATTTATGTCTACAATGTGTTCTCCTTATTCTGTT
GGCGTTGTTTCAGGACCACAGCGATAATCTTCTTAGAGTTGCAGGGACAATGGCACATGAA
ATGGGCCACAACCTTTGGAATGTTTCATGACGACTATTCTTGAAGTGCCTTCTACAATA
TGTGTGATGGACAAGCACTGAGCTTCTATATACCCACAGACTTCAGTTCTGCAGCCGT
CTCAGCTATGACAAGTTTTTTGAAGATAAATTATCAAATTCCTCTTTAATGCTCCATTG
CCTACAGATATCATATCCACTCCAATTTGTGGAAACCAGTTGGTGGAAATGGGAGAGGAC
TGTGATTGTGGGACATCTGAGGAATGTACCAATATTTGCTGTGATGCTAAGACATGTAAA
ATCAAAGCAACTTTTCAATGTGCATTAGGAGAATGTTGTGAAAAATGCCAATTTAAAAAG
GCTGGGATGGTGTGCAGACCAGCAAAAGATGAGTGCGACCTGCCTGAAATGTGTAATGGT
AAATCTGGTAATTGTCCTGATGATAGATTCCAAGTCAATGGCTTCCCTTGCCATCACGGG
AAGGGCCACTGCTTGTGGGACATGCCCCACTGCAGGAGCAGTGCACAGAGCTGTGG
GGACCAGGTAGGAGGACAAATCCTTTCCCTGTGCATGTGCGAAGGAAAAATCATTTCAGA
TGA
    
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Clone variation with respect to NM\_021777.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_021777 unedited
TGTTANATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCCACCTGAG
CGAGAAGAGCAGACACCGTGTCTCCTGGAATCACCAGCATGTTGCAAGGTCTCCTGCCAG
TCAGTCTCCTCCTCTCTGTTGCAGTAAGTGTATAAAAGAACTCCCTGGGGTGAAGAAG
ATGAAGTGGTTTTATCCTATAAGACTTCATCCACTGCATAAAAGAGAGGCCAAAGGCCAG
AGCAACAGGAACAATTTGAACTGAATTAAGTATAAAATGACAATTAATGGAAAAATTG
CAGTGCTTTATTTGAAAAAACAAGAACCCTCCTTGCAACAGGCTACACGGAAACATATT
ATAATTCCTGGAAGGAGATCACCACAAGCCCAAAATATGGATGATTGTTATTATC
AAGGACATATTCTTAATGAAAAGGTTTCTGACGCTAGCATCAGCACATGTAGGGGTCTAA
GGGGCTACTTCAGTCAGGGGGATCAAAGATACTTTATTGAACCTTTAAGCCCCATACATC
GGGATGGACAGGAGCATGCACTTCAAGTATAACCCTGATGAAAAGAATTATGACAGCA
CCTGTGGGATGGATGGTGTGTTGTGGGCCACGATTTGCAGCAGAACATTGCCCTACCTG
CCACAAACTAGTAAAATTGAAAGACAGGAAGGTTCAAGAACATGAGAAATACATAGAAT
ATTATTTGGTCTGGATAATGGTGAGTTTAAAAGGTACAATGAGAATCAAGATGAGATCA
GANAGAGGGTATTTGAGATGGCTAATTATGTCAACATGCTNNTATAAAAGCTCAATACTC
ATGTGGCCCTAGTTGGTATGAAATCTGGNACTGACAGGGATAGATAAGATAACCCAAAT
GCAGCTTACCTTGGAGAATTTCTA
    
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_021777 unedited</p> <pre> TTGCTATGCCACGCGGCACGCATTCTAAGATCGGTTTTTTTTTTTTTTTTTTTTCTTTTTT TTTTTTTTTTTTGGAGACGGAGTCTGGCTTTGTCAACCAGGCTGGAGTGCAGTGGCACGA TCTCTGCTGACGGCAAGTCCGCCTCCTGGGTTTCAGGCCCTTCTCCTGCCTCAGCCTCCC GAGTAGCTGGGACAGGCGCCACTAGCACGCCGGCTAATTTTTGGATTTTAGTAGAG ACGGGGTTTCACCGTGTAGCCAGGATGGGCTTGATCTCCTGACCTCGTGATCCGCCCGC CTCAGCCTCCCAAAGTGTGGGATTACAGGTGTGAGCCACCGCACCTGGCCAAAGTTATT TAATACTATACAATTGCTGTTTAAATTTTCGGATATCTCTTAAACTTTTATTTTTCAA GTTTTCTTGGTGAAATTAGAGAATATGGTCTCTAAAATTTGGCATTATGGACAAAGCGA CCATTTAAGAACTTTCACCTTTTCTTTATTGGCTTTCTGCATTTCCAGAGTTCTTTTCTTT TTTCCATCTTTTCTTATTCTGGCCCATCCACAGTACTTCTGCCACCCCTGCACACACA CACACACACACACCCCGACACACAGATTTCCAAGGGTTTATGATCTTAATAGGGTT GCCAGATGAAAAGAAAAGACACCCAGTTTAAATTTGAATTTAGAAAACACAAATAATTT TAGTATGAGCACCTCATATATTGCATGGGATATACTGATGCTGAGACAAAAACATAAA TTACAAAACCTTGAATTTTAGTTAAAATTAACGGGCCATCCTTATTTTACTGCTAAACT AGCACCTAAACCACCTCAACCTAAACCTCCATGATTGAATCGAGCTCTAGAAGATAGA CGATGGCCTTGACTGGTAACATGCATCTGAAGATTCCG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021777
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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>	<a href="#">NM_021777.2</a> , <a href="#">NP_068547.2</a>

RefSeq Size:	2076 bp
RefSeq ORF:	1623 bp
Locus ID:	10863
UniProt ID:	<a href="#">Q9UKQ2</a>
Cytogenetics:	8p21.2
Domains:	Reprolysin, DISIN, Pep_M12B_propep, ACR
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
Gene Summary:	<p>This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins 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. The protein encoded by this gene is a lymphocyte-expressed ADAM protein. This gene is present in a gene cluster with other members of the ADAM family on chromosome 8. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]</p> <p>Transcript Variant: This variant (3, also known as MDC-Ls) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 3 which is shorter and has a distinct C-terminus, compared to isoform 1.</p>