

## Product datasheet for **SC115083**

### ADAM28 (NM\_014265) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM28 (NM_014265) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM28
Synonyms:	ADAM 28; eMDC II; eMDCII; MDC-L; MDCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```

>OriGene ORF sequence for NM_014265 edited
GACACCGTGTCTCTGGAATCACCCAGCATGTTGCAAGTCTCCTGCCAGTCAGTCTCCTC
CTCTCTGTTGCAGTAAGTGCTATAAAGAAGTCCCTGGGGTGAAGAAGTATGAAGTGGTT
TATCCTATAAGACTTCATCCACTGCATAAAGAGAGGGCCAAAGAGCCAGAGCAACAGGAA
CAATTTGAAACTGAATTAAGTATAAAATGACAATTAATGGAAAAATTGCAGTGCCTTAT
TTGAAAAAAAACAAGAACCTCCTTGACCAGGCTACACGGAAACATATTATAATTCCACT
GGAAAGGAGATCACCCACAAGCCCAAAATTAATGGATGATTGTTATTATCAAGGACATATT
CTTAATGAAAAGGTTTCTGACGCTAGCATCAGCACATGTAGGGGTCTAAGGGGCTACTTC
AGTCAGGGGGATCAAAGATACTTTATTGAACCTTAAGCCCCATACATCGGGATGGACAG
GAGCATGCACTCTCAAGTATAACCCTGATGAAAAGAATTATGACAGCACCTGTGGGATG
GATGGTGTGTTGTGGGCCACGATTTGCAGCAGAACATTGCCCTACCTGCCACAAAATA
GTAAAATTGAAAGACAGGAAGGTTCAAGAACATGAGAAATACATAGAATATTATTTGGTC
CTGGATAATGGTGAAGTTAAAAGGTACAATGAGAATCAAGATGAGATCAGAAAGAGGGTA
TTTGAGATGGCTAATTATGTCAACATGCTTTATAAAAAGCTCAATACTCATGTGGCCTTA
GTTGGTATGGAATCTGGACTGACAAGGATAAGATAAAGATAACCCCAAATGCAAGCTTC
ACCTTGGAGAATTTTTCTAAATGGAGGGGAGTGTCTCTCAAGAAGAAAAGCGTCATGAT
ATTGCTCAGTTAATCACAGCAACAGAAGTCTGTTGGAACGACTGTGGGTCTTGCAATTTATG
TCTACAATGTGTTCTCCTTATTCTGTTGGCGTTGTTCAAGGACCACAGCGATAATCTTCTT
AGAGTTGCAGGGACAATGGCACATGAAATGGGCCACAACCTTTGGAATGTTTCATGACGAC
TATTCTTGCAAGTGTCTTCTACAATATGTGTGATGGCAAAGCACTGAGCTTCTATATA
CCCACAGACTTCAGTTCTGCAGCCGCTCAGCTATGACAAGTTTTTTGAAGATAAATTA
TCAAATTCCTCTTTAATGCTCCATTGCCTACAGATATCATATCCACTCCAATTTGTGGG
AACCAGTTGGTGGAAATGGGAGAGGACTGTGATTGTGGGACATCTGAGGAATGTACCAAT
ATTTGCTGTGATGCTAAGACATGTAATAAACAAGCAACTTTTCAATGTGCATTAGGAGAA
TGTTGTGAAAAATGCCAATTTAAAAAGGCTGGGATGGTGTGCAGACCAGAAAAGATGAG
TGCGACCTGCCTGAAATGTGTAATGGTAAATCTGGTAATTGTCCTGATGATAGATTCCAA
GTCAATGGCTTCCCTTGGCATAACGGGAAGGGCCACTGCTTGTGGGACATGCCCCACA
CTGCAGGAGCAGTGCACAGAGCTGTGGGACCAGGAAGTGGTGTGCAGATAAGTCATGT
TACAACAGGAATGAAGGTGGTCAAAGTACGGTACTGTCGAGAGTGGATGACACACTC
ATTCCTGCAAAGCAAATGATACCATGTGTGGGAAGTGTCTGTCAAGGTGGTTCGGAT
AATTTGCCCTGGAAGGACGGATAGTGACTTTCCTGACATGTAACAACTTTGATCCTGAA
GACACAAGTCAAGAAATAGGCATGGTGGCAATGGAACAAAGTGTGGCGATAACAAGTT
TGCAATTAATGCAGAAATGTGTGGATATTGAGAAAGCCTACAAATCAACCAATTGCTCATCT
AAGTGCAAAGGACATGCTGTGTGTGACCATGAGCTCCAGTGTCAATGTGAGGAAGGATGG
ATCCCTCCCGACTGCGATGACTCCTCAGTGGTCTTCCACTTCTCCATTGTGGTTGGGGTG
CTGTTCCCAATGGCGGTCAATTTTGTGGTGGTTGCTATGGTAATCCGGCACCCAGAGCTCC
AGAGAAAAGCAGAAAGAAAGATCAGAGGCCACTATCTACCACTGGCACCAGGCCACACAAA
CAGAAGAGGAAACCCAGATGGTAAAGGCTGTTCAACCCCAAGAGATGAGTCAGATGAAG
CCCCATGTGTATGATCTGCCAGTAGAAGGCAATGAGCCCCAGCCTCTTTTCATAAAGAC
ACAAACGCACTTCCCCCTACTGTTTTCAAGGATAATCCAATGTCTACACCTAAGGACTCA
AATCCAAAAGCATGAAGCAACAGCTAAGCAAGAATAATGGCTAAATTATCAACTTGGA
AACTGGAAAACTGGATGGCAGAGAAATATACTATCTCACCAGTATTTGCTCTCGACTCA
AGAAGGTTAACATTTTCTGATTCATGTTAGACTTTGAAGAGACTAAAGAAAAATTTCAAG
AGGAACATATGCCTGAGAACCTTTGCATGAATTTAAAATTTCAATTATCCATTCTTATAA
GAAGGAAGATGATTGTAAGAAATATCTCCGAAGTTAAAATCTGTAATAGGAATTGATTC
ATTCTCTAATGAAAACAAAACATAAAAACATCACACTAATCTTGGAGGAATAAGAAAAAT
TGTACATCCATTAATGTACAATTGATTGCAACAAAAAATAAAAAAAAAAATACTCGAC
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014265 unedited  
 GGGTTCACATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCAGCACCC  
 ACCTGAGCGAGAAGAGCACACCACCGTGCTCCTGGAATCACCCAGCATGTTGCAAGGTCTCC  
 TGCCAGTCAGTCTCCTCCTCTCTGTTGCAGTAAGCGCTATAAAAGAACTCCCTGGGGTGA  
 AGAAGTATGAAGTGGCTTATCCTATAAGACTTCATCCACTGCATAAAAGAGAGGCCAAAG  
 AGCCAGAGCAACAGGAACAATTTGAAACTGAATTAAGTATAAAATGACAATTAATGGAA  
 AAATTGCAGTGCTTTATTTGAAAAAACAAGAACCTCCTTGACCAGGCTACACGGAAA  
 CATATTATAATCCACTGGAAAGGAGATCACCACAAGCCACAAAATTATGGATGATTGTT  
 ATTATCAAGGACATATTCTTAATGAAAAGTCTTCTGACGCTAGCATCAGCACATGTAGCG  
 GTCTAAGGGGCTACTTCAGTCAGGGGGATCCAAGATACTTTATTGAACCTTTAAGCCCCA  
 TACATCGGGATGGACAGGAGCATGCACTCTTCAAGTATAACCCTGATGAAAAGAATTATG  
 ACAGCACCTGTGGCATGGATGGCGCTTGTGGCCCACTATTTGCCAGCGACATTGCCCTA  
 CCTGCCACAACTAGCATAAATGGAAGACAGGAAGGTCTCAGGACCCTGACAAACCT  
 CTCAATATTATTTGCTCCTGTATAAATGGCGAGTTCAAAAACGTACCATTGTAACCCC  
 GTATGCCATTCCCAAGTGCCTCTCTCGAAATCCCCTACTCTCCCAACACGCCTTTC  
 TCAAGCAGCCCCATACCTACTCTGCGCCTTACTCGCCAAGGATAAACTCTGTCCTGCCA  
 TGGACTACCAAAAAAAGTAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014265 unedited  
 CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTGCAATCAATTGTACATTTAATG  
 GATGTACAATTTTTCTTATCCTCCAAGATTAGTGTGATGTTTTATGTTTTGTTTTTCAT  
 TAGAGAATGAATCAATTCCTATTACAGATTTAACTTCGGAGATTTTCTTTACAATCAT  
 CTTCTTCTTATAAGAATGGATAATTGAAATTTAAATTCATGCAAAGGTTCTCAGGCAT  
 ATGTTCTCTTGAAAATTTCTTTAGTCTCTTCAAAGTCTAACATGAATCAGAAAATGTT  
 AACCTTCTTGAGTCGAGAGCAAATACTGGTGAGATAGTATATTTCTCTGCCATCCAGATT  
 TTCCAGTTTTCCAAGTTGATAATTTAGCCATTAGTTCTTGCTTAACTGCTGCTTCATGCT  
 TTTGGATTTGAGTCCTTACGTGTAGACATTGGATTATCCTTGAAAACAGTAGGGGAAGC  
 GCGTTTGTGCTTTATGAAAAGAGGCTGGGGGCTCATTGCCTTCTACTGGCAGATCATA  
 ACATGGGGCTTCATCTGACTCATCTCTTGGAGTTGAACAGCCTTTACCATCTGGGGTTTC  
 CTCTTCTGTTTGTGGCTGGCGCCAGTGGCAGATAGTGGCCTCTGATCTTTTTTCTGC  
 TCTTCTGAGCTCTGGTGCCGATTCCATTTGCACCCACAAAATGACCCGCTTGG  
 GAACAGCACCCACCCACATGAAAATGGAAGACCACTGAGGATCATCGAGCCGGGAGGG  
 ACCATCCTTCTTACATTGACCTTGAAGTCTGATGAGCTCATGGCCACCCAGATAGTCTTANAT  
 GACAATGGGTGATTGAGGCTCTCCATTCCTTTCGCTATGCAACCTTGTTCCTTCC  
 TTATCCTGGCCCTGCCTATTTGGCTGGGTTAGGAAAAGTTTATGAGGAAAGACTTC  
 GCCTTCACGAATTTCCCTCCCTGACAACC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014265

**Insert Size:**

1500 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:** no

**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\\_014265.3](#), [NP\\_055080.1](#)

**RefSeq Size:** 3181 bp

**RefSeq ORF:** 2328 bp

**Locus ID:** 10863

**UniProt ID:** [Q9UKQ2](#)

**Cytogenetics:** 8p21.2

**Domains:** Reprolysin, DISIN, Pep\_M12B\_propep, ACR

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

**Gene Summary:**

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]

Transcript Variant: This variant (1, also known as MDC-Lm) encodes the longest isoform (1).

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.