

Product datasheet for **RC217775**

ADAM28 (NM_014265) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM28 (NM_014265) Human Tagged ORF Clone
Tag:	Myc-DDK
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)



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ORF Nucleotide Sequence:

>RC217775 representing NM_014265
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGCAAGGTCTCCTGCCAGTCACTCTCTCTCTCTGTTGCAGTAAGTGCTATAAAAGAACTCCCTG
 GGGTGAAGAAGTATGAAGTGTTTATCCTATAAGACTTCATCCACTGCATAAAAGAGAGGCCAAAGAGCC
 AGAGCAACAGGAACAATTTGAAACTGAATTAAGTATAAAATGACAATTAATGGAAAAATTGCAGTGCTT
 TATTTGAAAAAACAAGAACCCTCTTGACCAGGCTACACGGAAACATATTATAATCCACTGGAAAGG
 AGATCACCACAAGCCACAAATTATGGATGATTGTTATTATCAAGGACATATTCTTAATGAAAAGGTTTC
 TGACGCTAGCATCAGCACATGTAGGGTCTAAGGGCTACTTCAGTCAGGGGGATCAAAGATACTTTATT
 GAACCTTTAAGCCCACATACATCGGGATGGACAGGAGCATGCCTTTCAAGTATAACCCTGATGAAAAGA
 ATTATGACAGCACCTGTGGGATGGATGGTGTGTTGTGGGCCACGATTTGCAGCAGAACATTGCCCTACC
 TGCCACCAAACTAGTAAAATTGAAAGACAGGAAGTTTCAGGAACATGAGAAATACATAGAATATTATTTG
 GCCTGGATAATGGTGAGTTTAAAAGGTACAATGAGAATCAAGATGAGATCAGAAAGAGGGTATTTGAGA
 TGGCTAATTATGTCAACATGCTTTATAAAAAGCTCAATACTCATGTGGCCTTAGTTGGTATGGAAATCTG
 GACTGACAAGGATAAGATAAAGATAACCCCAATGCAAGCTTCACCTTGGAGAATTTTTCTAAATGGAGG
 GGGAGTGTCTCTCAAGAAGAAAGCGTCATGATATTGCTCAGTTAATCACAGCAACAGAACTTGCTGGAA
 CGACTGTGGGTCTTGCAATTTATGTCTACAATGTGTTCTCCTTATTCTGTTGGCGTTGTTCCAGGACCACAG
 CGATAATCTTCTTAGAGTTGCAGGGACAATGGCACATGAAATGGGCCACAACCTTTGGAATGTTTCATGAC
 GACTATTCTTGAAGTGCCTTCTACAATATGTGTGATGGACAAAGCACTGAGCTTCTATATACCCACAG
 ACTTCAGTTCCTGCAGCGTCTCAGCTATGACAAGTTTTTTGAAGATAAATTATCAAATGGCCTCTTTAA
 TGCTCCATTGCCTACAGATATCATATCCACTCCAATTTGTGGAAACCAGTTGGTGGAAATGGGAGAGGAC
 TGTGATTGTGGGACATCTGAGGAATGTACCAATATTTGCTGTGATGCTAAGACATGTAATAACAAAGCAA
 CTTTTCAATGTGCATTAGGAGAATGTTGTGAAAAATGCCAATTTAAAAAGGCTGGGATGGTGTGCAGACC
 AGCAAAAGATGAGTGCACCTGCCTGAAATGTGTAATGGTAAATCTGGTAATTGCCTGATGATAGATTC
 CAAGTCAATGGCTTCCCTTGCCATCACGGGAAGGGCCACTGCTTGATGGGACATGCCCCACTGCAGG
 AGCAGTGCACAGAGCTGTGGGACCAGGAAGTGGTTGCAGATAAGTCATGTTACAACAGGAATGAAGG
 TGGTCAAAGTACGGTACTGTGCGAGAGTGGATGACACACTCATTCCCTGCAAAGCAAATGATACCATG
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 CATGTAATAACATTTGATCCTGAAGACACAAGTCAAGAAATAGGCATGGTGGCCAATGGAAGTAAAGTGG
 CGATAACAAGGTTTGCAATTAATGCAGAATGTGTGGATATTGAGAAAGCCTACAAATCAACCAATGCTCA
 TCTAAGTGCAAAGGACATGCTGTGTGTGACCATGAGCTCCAGTGTCAATGTGAGGAAGGATGGATCCCTC
 CCGACTGCGATGACTCCTCAGTGGTCTTCCACTTCTCCATTGTGGTTGGGGTGTGTTCCCAATGGCGGT
 CATTTTTGTGGTGGTGTGATGGTAATCCGGCACCAGAGCTCCAGAGAAAAGCAGAAGAAAGATCAGAGG
 CCACTATCTACCACTGGCACCAGGCCACAAAACAGAAGAGGAAACCCAGATGGTAAAGGCTGTTCAAC
 CCCAAGAGATGAGTCAGATGAAGCCCCATGTGTATGATCTGCCAGTAGAAGGCAATGAGCCCCAGCCTC
 TTTTCATAAAGACACAAACGCACCTCCCCCTACTGTTTTCAAGGATAATCCAGTGCTACACCTAAGGAC
 TCAAATCCAAAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217775 representing NM_014265
 Red=Cloning site Green=Tags(s)

MLQGLLPVSLLLSVAVSAIKELPGVKKYEVVYPIRLHPLHKREAKEPEQQEQFETELKYKMTINGKIAVL
 YLKKKNLLAPGYTETYNSTGKEITTSQIMDDCYQGHILNEKVSASISTCRGLRGYFSQGDQRYFI
 EPLSPIHRDQGEHALFKYNPDEKNYDSTCGMDGVLWAHDLQONIALPATKLVKLDKRVQEHEKYIEYYL
 VLDNGEFKRYNENQDEIRKRVFEMANYVNMLYKKLNTHVALVGMEIWTDKDKIKITPNASFLENFSKWR
 GSVLSRRKRHDIAQLITATELAGTTVGLAFMSTMCSYSGVVDHSDNLLRVAGTMAHEMGHNFGMFHD
 DYSCKCPSTICVMDKALSFYIPTDFSSCSRLSYDKFFEDKLSNCLFNAPLPTDIIISTPICGNQLVEMGED
 CDCGTSEECTNICDAKTCKIKATFQCALGECCEKCQFKKAGMVCRPAKDECDLPEMNGKSGNCPDDR
 QVNGFPCHHGKGHCLMGTCPQLQECTELWGPTEVADKSCYNRNEGGSKYGYCRRVDDTLIPCKANDTM
 CGKLFCCGGSDNLPWKGRIVTFLTCKTFDPEDTSQEIGMVANGTKCGDNKVCINAECVDIEKAYKSTNCS
 SKCKGHAVCDHELQCQCEEGWIPPDCDDSSVVFHF SIVGVLPFMAVIFVVVAMVIRHQSREKQKQDQR
 PLSTTGRPHKQKRPQMVKAVQPQEMSQMKPHVYDLPVEGNEPPASFHKDTNALPPTVFKDNPVSTPKD
 SNPKA

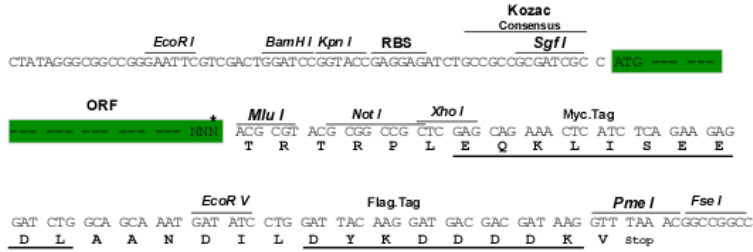
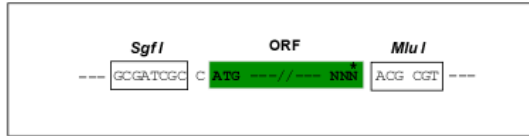
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

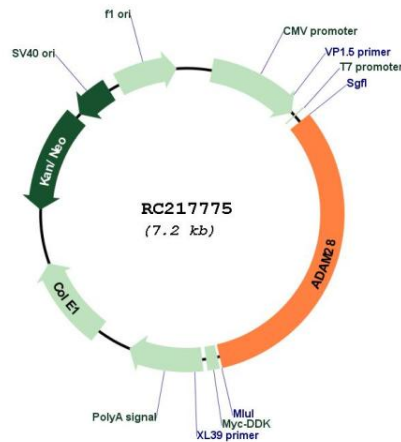
ACCN: NM_014265

ORF Size: 2325 bp

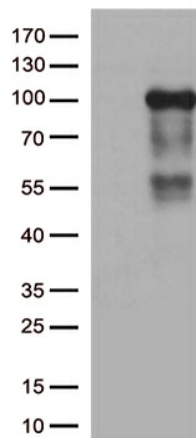
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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_014265.6
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
MW:	87 kDa

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]

Product images:


Circular map for RC217775



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ADAM28 (Cat# RC217775, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADAM28 (Cat# [TA812739])(1:500).