

Product datasheet for **RG217827**

ADAM28 (NM_021777) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM28 (NM_021777) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAM28
Synonyms:	ADAM 28; eMDC II; eMDCII; MDC-L; MDCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217827 representing NM_021777
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGCAAGGTCTCCTGCCAGTCACTCTCTCTCTGTTGCAGTAAGTGCTATAAAAGAACTCCCTG
 GGGTGAAGAAGTATGAAGTGTTTATCCTATAAGACTTCATCCACTGCATAAAAGAGAGGCCAAAGAGCC
 AGAGCAACAGGAACAATTTGAAACTGAATTAAGTATAAAATGACAATTAATGAAAAAATTCAGTGTCTT
 TATTTGAAAAAACAAGAACCCTCTTGCACCAGGCTACACGGAAACATATTATAATTCCTACTGGAAAGG
 AGATCACCACAAGCCACAAATTATGGATGATTGTTATTATCAAGGACATATTCTTAATGAAAAGGTTTC
 TGACGCTAGCATCAGCACATGTAGGGTCTAAGGGGCTACTTCAGTCAGGGGGATCAAAGATACTTTATT
 GAACCTTTAAGCCCACATACATCGGGATGGACAGGAGCATGCCTCTTCAAGTATAACCCTGATGAAAAGA
 ATTATGACAGCACCTGTGGGATGGATGGTGTGTTGTGGGCCACGATTTGCAGCAGAACATTGCCCTACC
 TGCCACCAAACTAGTAAAATTGAAAGACAGGAAGTTTCAGGAACATGAGAAATACATAGAATATTATTTG
 GCCTGGATAATGGTGAGTTTAAAGGTACAATGAGAATCAAGATGAGATCAGAAAGAGGGTATTTGAGA
 TGGCTAATTATGTCAACATGCTTTATAAAAAGCTCAATACTCATGTGGCCTTAGTTGGTATGAAAATCTG
 GACTGACAAGGATAAGATAAAGATAACCCCAAATGCAAGCTTCACCTTGGAGAATTTTTCTAAATGGAGG
 GGGAGTGTCTCTCAAGAAGAAAGCGTCATGATATTGCTCAGTTAATCACAGCAACAGAAGTTGCTGGAA
 CGACTGTGGGTCTTGCAATTTATGTCTACAATGTGTTCTCCTTATTCTGTTGGCGTTGTTCCAGGACCACAG
 CGATAATCTTCTTAGAGTTGCAGGGACAATGGCACATGAAATGGGCCACAACCTTTGGAATGTTTCATGAC
 GACTATTCTTGAAGTGCCTTCTACAATATGTGTGATGGACAAGCACTGAGCTTCTATATACCCACAG
 ACTTCAGTTCCTGCAGCCGTCTCAGCTATGACAAGTTTTTTGAAGATAAATTAACAATTCCTCTTTAA
 TGCTCCATTGCCTACAGATATCATATCCACTCCAATTTGTGGGAACAGTTGGTGGAAATGGGAGAGGAC
 TGTGATTGTGGGACATCTGAGGAATGTACCAATATTTGCTGTGATGCTAAGACATGTAATAAATCAAAGCAA
 CTTTTCAATGTGCATTAGGAGAATGTTGTGAAAAATGCCAATTTAAAAAGGCTGGGATGGTGTGCAGACC
 AGCAAAAGATGAGTGCAGCTGCCTGAAATGTGTAATGGTAAATCTGGTAATTGCCTGATGATAGATTC
 CAAGTCAATGGCTTCCCTTGCCATCACGGGAAGGGCCACTGCTTGTGGGACATGCCCCACACTGCAGG
 AGCAGTGCACAGAGCTGTGGGACCAGGTAGGAGGACAAATCCTTCCCCTGTGCATGTGCGAAGGAAAA
 TCATTTTCTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217827 representing NM_021777
 Red=Cloning site Green=Tags(s)

MLQGLLPVSLLLSVAVSAIKELPGVKYEVVYPIRLHPLHKREAKEPEQQEQFETELKYKMTINGKIAVL
 YLKKKNLLAPGYTETYNSTGKEITTSQIMDDCYQGHILNEKVSDASISTCRGLRGYFSQGDQRYFI
 EPLSPIHRDQGEHALFKYNPDEKNDSTCGMDGVLWAHDLQQNIALPATKLVKLDKRVQEHEKYIEYYL
 VLDNGEFKRYNENQDEIRKRVFEMANYVNMLYKLNTHVALVGMEIWTDKDKIKITPNAFTLENFSKWR
 GSVLSRRKRHDIAQLITATELAGTTVGLAFMSTMSPYSVGVVQDHSNLLRVAGTMAHEMGNHFMFHD
 DYSCKCPSTICVMDKALSFYIPTDFSSCSRLSYDKFFEDKLSNCLFNAPLPTDIIISTPICGNQLVEMGED
 CDCGTSEECTNICDAKTCKIKATFQCALGECCEKQFKKAGMVCRAKDECDLPEMNCNGKSGNCPDDRF
 QVNGFPCHHGKGHCLMGTCPQLQEQTTELWGPGRRTNPFPCACAKENHFR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021777

ORF Size: 1620 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 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](#)

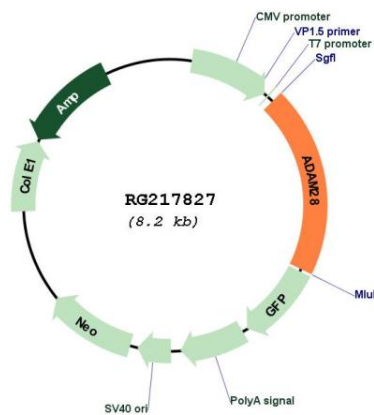
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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_021777.4
RefSeq Size:	2076 bp
RefSeq ORF:	1623 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]

Product images:



Circular map for RG217827