

Product datasheet for **RG222280**

ADAM12 (NM_021641) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM12 (NM_021641) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAM12
Synonyms:	ADAM12-OT1; CAR10; MCMP; MCMPMItna; MLTN; MLTNA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222280 representing NM_021641
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGCGCCCGCTGCCCGTGTCCCCGCCCGCCCTCTGCTCGCCCTGGCCGGTCTGTCTCG
 CGCCCTGCGAGGCCGAGGGGTGAGCTTATGGAACCAAGGAAGAGCTGATGAAGTTGTCAGTGCCTCTGT
 TGGGAGTGGGACCTCTGGATCCAGTGAAGAGCTTCGACTCCAAGAATCATCCAGAAGTCTGAATATT
 CGACTACAACGGGAAAGCAAAGAACTGATCATAAATCTGGAAAGAAATGAAGGTCTCATTGCCAGCAGTT
 TCACGGAAACCCACTATCTGCAAGACGGTACTGATGTCTCCCTCGCTCGAAATTACACGGTAATTCTGGG
 TCACTGTTACTACCATGGACATGTACGGGGATATTCTGATTACAGCAGTCACTCAGCACGTGTTCTGGT
 CTCAGGGGACTTATTGTGTTTAAAAATGAAAGCTATGTCTTAGAACCAATGAAAAGTGAACCAACAGAT
 ACAAACCTTCCAGCGAAGAAGCTGAAAAGCGTCCGGGGATCATGTGGATCACATCACAAACACACAAA
 CCTCGCTGCAAAGAATGTGTTTCCACCACCTCTCAGACATGGGCAAGAAGGCATAAAAGAGAGACCCCTC
 AAGGCAACTAAGTATGTGGAGCTGGTATCGTGGCAGACAACCGAGAGTTTCAGAGGCAAGGAAAAGATC
 TGGAAAAAGTTAAGCAGCGATTAATAGAGATTGCTAATACGTTGACAAGTTTTACAGACCACTGAACAT
 TCGGATCGTGTGGTAGGCGTGGAGTGTGGAATGACATGGACAAATGCTCTGTAAGTCAGGACCCATTC
 ACCAGCCTCCATGAATTTCTGGACTGGAGGAAGATGAAGCTTCTACCTCGCAAATCCCATGACAATGCGC
 AGCTTGTGTCAGTGGGGTTTATTTCCAAGGGACCACCATCGGCATGGCCCAATCATGAGCATGTGCACGGC
 AGACCAGTCTGGGGGAATGTGATGGACCATTGACACAATCCCTTGGTGCAGCCGTGACCCTGGCACAT
 GAGCTGGGCCACAATTTCCGGATGAATCATGACACTGGACAGGGCTGTAGCTGTCAAATGGCGGTTG
 AGAAAGGAGGCTGCATCATGAACGCTTCCACCGGTACCCATTTCCCATGGTGTTCAGCAGTTGCACGAG
 GAAGGACTTGGAGACCAGCCTGGAGAAAGGAATGGGGGTGTGCCTGTTTAACTGCCGGAAGTCAGGGAG
 TCTTTCGGGGGCCAGAAGTGTGGGAACAGATTTGTGGAAGAAGGAGAGGAGTGTGACTGTGGGGAGCCAG
 AGGAATGTATGAATCGTGTGCAATGCCACCCTGTACCCTGAAGCCGGACGCTGTGTGCGCACATGG
 GCTGTGCTGTGAAGACTGCCAGCTGAAGCCTGCAGGAACAGCGTGCAGGGACTCCAGCAACTCCTGTGAC
 CTCCCAGAGTTCTGCACAGGGGCCAGCCCTCACTGCCAGCCAACGTGTACCTGCACGATGGGCACTCAT
 GTCAGGATGTGGACGGCTACTGCTACAATGGCATCTGCCAGACTCACGAGCAGCAGTGTGTACGCTCTG
 GGGACCAGGTGCTAAACCTGCCCTGGGATCTGCTTTGAGAGAGTCAATTCTGCAGGTGATCCTTATGGC
 AACTGTGGCAAAGTCTCGAAGAGTTCCTTTGCCAAATGCGAGATGAGAGATGCTAAATGTGGAAAAATCC
 AGTGTCAAGGAGGTGCCAGCCGGCCAGTATTGGTACCAATGCCGTTTCCATAGAAAACAAACATCCCCCT
 GCAGCAAGGAGGCCGATTCTGTGCCGGGGACCCACGTGTAATTGGGCGATGACATGCCGGACCCAGGG
 CTTGTGCTTGCAGGCACAAAGTGTGAGATGGAAAAATCTGCCTGAATCGTCAATGTCAAATATTAGTG
 TCTTTGGGGTTCACGAGTGTGCAATGCAGTGCCACGGCAGAGGGGTGTGCAACAACAGGAAGAACTGCCA
 CTGCGAGGCCACTGGGCACCTCCCTTCTGTGACAAGTTTGGCTTTGGAGGAAGCACAGACAGCGGCCCC
 ATCCGGCAAGCAGAAGCAAGGCAGGAAGCTGCAGAGTCCAACAGGGAGCGCGCCAGGGCCAGGAGCCCC
 TGGGATCGCAGGAGCATGCGTCTACTGCCTCACTGACACTCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222280 representing NM_021641
 Red=Cloning site Green=Tags(s)

MAARPLVSPARALLLAGALLAPCEARGVSLWNQGRADEVVSASVSGDLWIPVKSFDSKNHPEVLNI
 RLQRESKELIINLERNEGLIASSFTETHYLQDGTDSLARNYTVILGHICYHGHVIRGYSASVSLSTCSG
 LRGLIVFENESYVLEPMKSATNRYKLFPAKLLKSVRGSCGSHHNTPNLAANKVFPSPSQTWARRHKRETL
 KATKYVELVIVADNREFQRQGDLEKVKQRLIEIANHVDFYRPLNIRIVLVGVEVWMDKCSVSQDPF
 TSLHEFLDWRKMKLLPRKSHDNAQLVSGVYFQGTIGMAPIMSMCTADQSGGIVMDHSDNPLGAAVTLAH
 ELGHNFGMNHDTLDRGCSCQMAVEKGGCIMNASTGYPPMVFSSCSRKDLETSLEKGMGVCLFNLPEVRE
 SFGGQKCGNRFVEEGEECDCEPEECMNRCCNATTCTLPDAVCAHGLCCEDCQLKPAGTACRDSNSCD
 LPEFCTGASPHCPANVYLHDGHSCQDVGICYNGICQTHEQQCVTLWPGGAKPAPGICFERVNSAGDPYG
 NCGKVSKSSFACEMRDAKCGKIQCQGGASRPVIGTNAVSIETNIPLQQGGRILCRGTHVYLGDDMPDPG
 LVLAGTKCADGKICLNRQCNISVFGVHECAMQCHGRGVCNNRKNCHCEAHWAPPFCDKFGFGGSTDSPG
 IRQAEARQEAAESNRERGGQEPVGSQEHASTASLTLI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_021641

ORF Size: 2214 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_021641.5](#)

RefSeq Size: 3433 bp

RefSeq ORF: 2217 bp

Locus ID: 8038

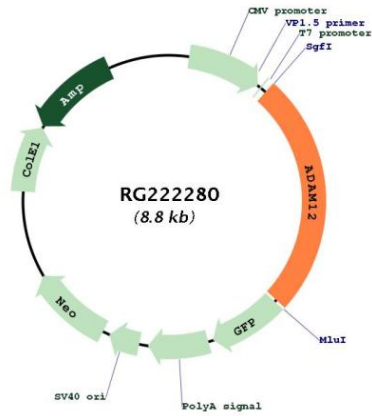
UniProt ID: [O43184](#)

Cytogenetics: 10q26.2

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

Gene Summary: 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]

Product images:



Circular map for RG222280