

Product datasheet for **RG211531**

ADAM18 (NM_014237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM18 (NM_014237) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAM18
Synonyms:	ADAM27; tMDCIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG211531 representing NM_014237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCTCTCCTCGCCCTCCTCACTGAGCTTGGAAAGCTGCAAGCCCACGAAGTTCTGAAGGAATAT
 TTCTGCATGTCACAGTTCACGGAAGATTAAGTCAAATGACAGTGAAGTTTCAGAGAGGAAGATGATTTA
 CATCATTACAATTGATGGACAACCTTACTCTACATCTCGGAAAAACAATCATTCTTACCCAGAACTTT
 TTGGTTTATACATATAATGAAACTGGATCTTTGCATTCTGTGTCTCCATATTTTATGATGCATTGCCATT
 ACCAAGGATATGCTGCCGAATTTCAAATTCATTTGTGACTCAGTATATGTTCTGGTCTCAGGGGATT
 TCTCCAGTTTAAAAATATCAGTTATGGAATTGAACCAAGTGAATCTTCAGCAAGATTTGAGCATATAATT
 TATCAAATGAAAAATAATGATCCAAATGTATCCATTTAGCAGTAAATTACAGTCATATTTGGCAGAAAG
 ACCAGCCCTACAAAGTTCCTTTAAACTCACAGATAAAAAATCTTTCAAACCTATTACCCCAATATCTGGA
 AATATACATTATAGTGGAAAAAGCTTTGTATGATTATATGGGATCTGAAATGATGGCTGTAAACAAAAA
 ATTGTCCAGGTTATTGGGCTTGTCAACACTATGTTTACCCAGTTCAAATGACTGTTATACTGTCTTCTCT
 TGGAAATGTGGTCAAATGAAAACAGATTTCCACCAGTGGGGATGCTGATGATATATTACAAGATTTTT
 GGCATGGAACCGGACTATCTATCCTACGGCCCATGACATAGCATACTTACTTGTTCACAGGAAACAT
 CCTAAATATGTGGGAGCAACATTTCTGGCACCATGCAATAAAAGCTATGATGCAGGTATTGCTATGT
 ATCCAGATGCAATAGGTTTGGAGGGATTTTCGGTTATTATAGCTCAACTGCTTGGCCTTAATGTAGGATT
 AACATATGATGACATCACTCAGTGTCTGTCTGAGAGCTACATGCATCATGAATCATGAAGCAGTGAGT
 GCCAGTGGTAGAAAGATTTTAGCAACTGCAGCATGCAGACTATAGATATTTTGTTCAAAAATTTGAGA
 CTAATGCCTTCAGAAGCTTTCAAATTTGCAACCATTACATCAAATCAACCAGTGTGGTAATGGGAT
 TTTGGAATCCAATGAAGAATGTGACTGTGGTAATAAAAAATGAATGTCAATTTAAGAAGTCTGTGATTAT
 AACACATGTAACCTGAAGGGCTCAGTAAAAATGTGGTTCTGGACCATGTTGTACATCAAAGTGTGAGTTGT
 CAATAGCAGGCACTCCATGTAGAAAGAGTATTGATCCAGAGTGTGATTTTACAGAGTACTGCAATGGAAC
 CTCTAGTAATTGTGTTCTGACACTTATGCATTGAATGGCCGTTTGTGCAAGTTGGGAACTGCCTATTGC
 TATAACGGACAATGTCAAACCTGATAACCAGTGTGCCAAGATATTTGGAAAAGGTGCTCAAGGTGCTC
 CATTTGCCTGTTTTAAGAAGTTAATTCTCTGCATGAAAGATCTGAAAACCTGGTTTTAAAAATTCACA
 ACCATTACCTTGTGAACGGAAGGATGTTCTCTGTGGAAAATTAGCTTGTGTTAGCCACATAAAAAATGCT
 AATAAAAGTGACGCTCAATCTACAGTTTATTCATATATCAAGACCATGTATGTGTATCTATAGCCACTG
 GTTCTCCATGAGATCAGATGGAACAGACAATGCCTATGTGGCTGATGGCACCATGTGTGGTCCAGAAAT
 GACTGTGTAATAAAACCTGCAGAAAAGTTCATTTAATGGGATATAACTGTAATGCCACCACAAAAATGC
 AAAGGGAAAGGGATATGTAATAATTTGGTAATTGTCAATGCTTCCCTGGACATAGACCTCCAGATTGTA
 AATTCCAGTTTGGTTCCCAGGGGGTAGTATTGATGATGGAAATTTTCAGAAATCTGGTGACTTTTATAC
 TGAAAAAGGCTACAATACACACTGGAACAACCTGGTTTATTCTGAGTTTCTGCATTTTCTGCCGTTTTTC
 ATAGTTTTACCACCTGTGATCTTTAAAAGAAATGAAATAAGTAAATCATGTAACAGAGAGAATGCAGAGT
 ATAATCGTAATTCATCCGTTGTATCAGAAAGCGATGACGTGGGACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211531 representing NM_014237
Red=Cloning site Green=Tags(s)

MFLLALLTELGRLLQAHEGSEGI FLHVTVPRIKISNDSEVSEKMIYIITIDGQPYTLHLGKQSF L P Q N F
 LVYTYNETGSLHSVSPYFMMHCHYQGYAAEFNSFVTL S I C S G L R G F L Q F E N I S Y G I E P V E S S A R F E H I I
 YQMKNNDPNVSILAVNYSHIWQKDQPYK V P L N S Q I K N L S K L L P Q Y L E I Y I I V E K A L Y D Y M G S E M M A V T Q K
 I V Q V I G L V N T M F T Q F K L T V I L S S L E L W S N E N Q I S T S G D A D D I L Q R F L A W K R D Y L I L R P H D I A Y L L V Y R K H
 P K Y Y G A T F P G T V C N K S Y D A G I A M Y P D A I G L E G F S V I I A Q L L G L N V G L T Y D D I T Q C F C L R A T C I M N H E A V S
 A S G R K I F S N C S M H D Y R Y F V S K F E T K C L Q K L S N L Q P L H Q N Q P V C G N G I L E S N E E C D C G N K N E C Q F K K C C D Y
 N T C K L K G S V K C G S G P C C T S K C E L S I A G T P C R K S I D P E C D F T E Y C N G T S S N C V P D T Y A L N G R L C K L G T A Y C
 Y N G Q C Q T T D N Q C A K I F G K G A Q G A P F A C F K E V N S L H E R S E N C G F K N S Q P L P C E R K D V L C G K L A C V Q P H K N A
 N K S D A Q S T V Y S Y I Q D H V C V S I A T G S S M R S D G T D N A Y V A D G T M C G P E M Y C V N K T C R K V H L M G Y N C N A T T K C
 K G K G I C N N F G N C Q C F P G H R P D C K F Q F G S P G G S I D D G N F Q K S G D F Y T E K G Y N T H W N N W F I L S F C I F L P F F
 I V F T T V I F K R N E I S K S C N R E N A E Y N R N S S V V S E S D D V G H

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014237

ORF Size: 2217 bp

OTI Disclaimer: 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_014237.1](#), [NP_055052.1](#)

RefSeq Size: 2248 bp

RefSeq ORF: 2220 bp

Locus ID: 8749

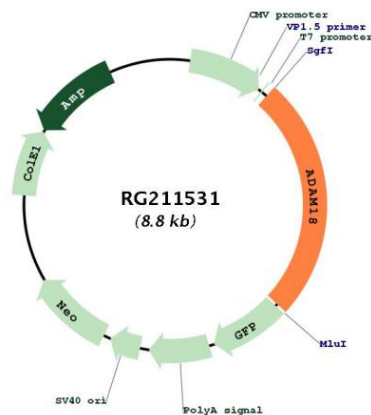
UniProt ID: [Q9Y3Q7](#)

Cytogenetics: 8p11.22

Protein Families: Druggable Genome, Protease, 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 biologic processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The encoded preproprotein is proteolytically processed to generate the mature sperm surface protein. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG211531