

Product datasheet for **RC211531**

ADAM18 (NM_014237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM18 (NM_014237) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAM18
Synonyms:	ADAM27; tMDCIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC211531 representing NM_014237
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTTCTCTCCTCGCCCTCCTCACTGAGCTTGAAGACTGCAAGCCCACGAAGTTCTGAAGGAATAT
TTCTGCATGTCACAGTTCACGGAAGATTAAGTCAAATGACAGTGAAGTTTCAGAGAGGAAGATGATTTA
CATCATTACAATTGATGGACAACCTTACTCTACATCTCGGAAAAAATCATTCTTACCCAGAACTTT
TTGGTTTATACATATAATGAAACTGGATCTTGCATTCTGTGTCTCCATATTTTATGATGCATTGCCATT
ACCAAGGATATGCTGCCGAATTTCAAATTCATTTGTGACTCAGTATATGTTCTGGTCTCAGGGGATT
TCTCCAGTTTAAAAATCAGTTATGGAATTGAACCACTAGAATCTTCAGCAAGATTTGAGCATATAATT
TATCAAATGAAAAATAATGATCCAAATGTATCCATTTAGCAGTAAATTACAGTCATATTTGGCAGAAAG
ACCAGCCCTACAAAGTTCCTTTAACTCACAGATAAAAAATCTTTCAAACCTATTACCCCAATATCTGGA
AATATACATTATAGTGGAAAAAGCTTTGTATGATTATATGGGATCTGAAATGATGGCTGTAAACAAAAA
ATTGTCCAGGTTATTGGGCTGTCAACACTATGTTTACCCAGTTCAAATGACTGTTATACTGTCTTCTCT
TGGAAATGTGGTCAAATGAAAACAGATTTCCACCAGTGGGGATGCTGATGATATATTACAAGATTTTT
GGCATGGAACCGGACTATCTATCCTACGGCCCATGACATAGCATACTTACTTGTTCACAGGAAACAT
CCTAAATATGTGGGAGCAACATTTCTGGCACTGTATGCAATAAAAGCTATGATGCAGGTATTGCTATGT
ATCCAGATGCAATAGGTTTGGAGGGATTTTCGGTTATTATAGCTCAACTGCTTGGCCTTAATGTAGGATT
AACATATGATGACATCACTCAGTGTTCCTGTCTGAGAGCTACATGCATCATGAATCATGAAGCAGTGAGT
GCCAGTGGTAGAAAGATTTTAGCAACTGCAGCATGCAGACTATAGATATTTTGTTCAAAAATTTGAGA
CTAAATGCCTTCAGAAGCTTTCAAATTTGCAACCATTACATCAAATCAACCAGTGTGGTAATGGGAT
TTTGGAAATCCAATGAAGAATGTGACTGTGGTAATAAAAAATGAATGTCAATTTAAGAAGTGTGTGATTAT
AACACATGTAAACTGAAGGGCTCAGTAAAAATGTGGTTCTGGACCATGTTGTACATCAAAGTGTGAGTTGT
CAATAGCAGGCACTCCATGTAGAAAGAGTATTGATCCAGAGTGTGATTTTACAGAGTACTGCAATGGAAC
CTCTAGTAATTGTGTTCTGACACTTATGCATTGAATGGCCGTTTGTGCAAGTTGGGAACTGCCTATTGC
TATAACGGACAATGTCAAACCTGATAACCAGTGTGCCAAGATATTTGGAAAAGGTGCTCAAGGTGCTC
CATTTGCCTGTTTTAAGAAGTTAATCTCTGCATGAAAGATCTGAAAACCTGTGGTTTTAAAAATTCACA
ACCATTACCTTGTGAACGGAAGGATGTTCTCTGTGAAAATTAGCTTGTGTTTACGCCACATAAAAAATGCT
AATAAAAGTGACGCTCAATCTACAGTTTATTCATATATCAAGACCATGTATGTGTATCTATAGCCACTG
GTTCTCCATGAGATCAGATGGAACAGACAATGCCTATGTGGCTGATGGCACCATGTGTGGTCCAGAAAT
GTACTGTGTAATAAAACCTGCAGAAAAGTTCATTTAATGGGATATAACTGTAATGCCACCACAAAATGC
AAAGGGAAAGGGATATGTAATAATTTGGTAATTGTCAATGCTTCCCTGGACATAGACCTCCAGATTGTA
AATTCCAGTTTGGTTCCCAGGGGGTAGTATTGATGATGGAAATTTTCAGAAATCTGGTACTTTTATAC
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ATAGTTTTACCACCTGTGATCTTTAAAAGAAATGAAATAAGTAAATCATGTAACAGAGAGAATGCAGAGT
ATAATCGTAATTCATCCGTTGTATCAGAAAGCGATGACGTGGGACAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211531 representing NM_014237
Red=Cloning site Green=Tags(s)

MFLLLALLTELGRLQAHEGSEGI FLHVTVPRIKISNDSEVSEKMIYIITIDGQPYTLHLGKQSF LPQNF
LVYTYNETGSLHSVSPYFMMHCHYQGYAAEFNSFVTLICSGLRGFLQFENISYGIPEVSSARFEHII
YQMKNDPNVSI LAVNYSHIWQKDQPYK VPLNSQIKNL SKLLPQYLEIYIIVEKALYDYMGEEMMAVTQK
IVQVIGLVNTMFTQFKLTVILSSLELWSNENQISTSGDADDILQRFLAWKRDYLI LRPHDIAYLLVYRKH
PKYVVGATFPGTVCNKSYDAGIAMYPDAIGLEGF SVIIAQLLGLNVGLTYDDITQCFCLRATC IMNHEAVS
ASGRKIFSNCSMHDYRYFVSKFETKCLQKLSNLQPLHQNPVCGNGILE SNEECD CGNKNECQFKKCCDY
NTCKLKGSVKCGSGPCCTSKCELSIAGTPCRKSIDPECDFTEYCNGTSSNCV PPTYALNGRLCKLGTAYC
YNGQCQT TDNQCAKIFGKGAQGAPACFKEVNSLHERSENCGFKN SQPLPCRKDVLCGLACVQPHKNA
NKSDAQSTVYSYIQDHVCVSIATGSSMRSDGTDNAYVADGTMCGPEMYCVNKTRK VHLMGYNCAATTKC
KGGKICNNFGNCQCFPGHRPPDCKFQFGSPGGSIDGNGFQKSGDFYTEKGYNTHWNNW F ILSFCIFL PFF
IVFTTVIFKRNEISKSCNRENAEYNRNSSV VSESDDVGH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6774_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_014237

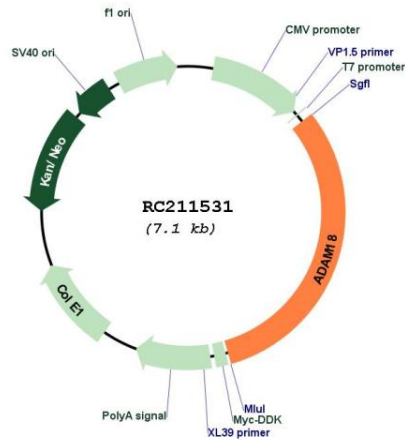
ORF Size: 2217 bp

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](#)

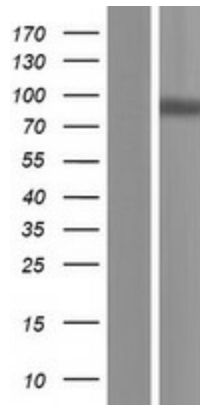
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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_014237.3
RefSeq Size:	2248 bp
RefSeq ORF:	2220 bp
Locus ID:	8749
UniProt ID:	Q9Y3Q7
Cytogenetics:	8p11.22
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	82.8 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 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 RC211531



Western blot validation of overexpression lysate (Cat# [LY415414]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211531 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).