

Product datasheet for **RC231028**

ADAM18 (NM_001190956) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ADAM18 (NM_001190956) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ADAM18
Synonyms: ADAM27; tMDCIII
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231028 representing NM_001190956
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTCTCTCCTCGCCCTCCTCACTGAGCTTGAAGACTGCAAGCCACGAAGTTCTGAAGGAATAT
TTCTGCATGTCACAGTTCACGGAAGATTAAGTCAAATGACAGTGAAGTTTCAGAGAGGAAGATGATTTA
CATCATTACAATTGATGGACAACCTTACTCTACATCTCGGAAAACAATCATTCTACCCAGAACTTT
TTGGTTTATACATATAATGAAACTGGATCTTTGCATTCTGTGTCTCCATATTTATGATGCATTGCCATT
ACCAAGGATATGCTGCCGAATTTCCAAATTCATTTGTGACTCAGTATATGTTCTGGTCTCAGGGGATT
TCTCCAGTTTGAAAATATCAGTTATGGAATTGAACAGTAGAATCTTCAGCAAGATTTGAGCATATAATT
TATCAAATGAAAATAATGATCCAAATGTATCCATTTTAGCAGTAAATTACAGTCATATTTGGCAGAAAG
ACCAGCCCTACAAAGTTCCTTTAAACTCACAGGTGACTGTCATCATTCTGATGTTA

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231028 representing NM_001190956
Red=Cloning site Green=Tags(s)

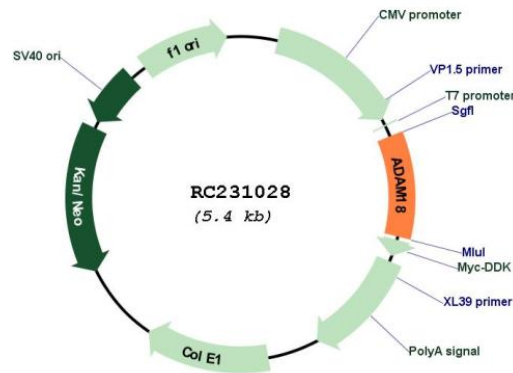
MFLLLLALLTELGRQLQAHEGSEGIFLHVTVPRIKISNDSEVSEKMIYIITIDGQPYTLHLGKQSFLLPQNF
LVYTYNETGSLHSVSPYFMMHCHYQGYAAEFNSFVTLISGLRGFLQFENISYGIPEVSSARFEHII
YQMKNDPNVSI LAVNYSHIWQKDPYK VPLNSQVTVIILML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001190956

ORF Size: 546 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:	<u>NM_001190956.2</u>
RefSeq ORF:	549 bp
Locus ID:	8749
UniProt ID:	<u>Q9Y3Q7</u>
Cytogenetics:	8p11.22
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	21.3 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]