

Product datasheet for **RC200507**

Adrenomedullin (ADM) (NM_001124) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adrenomedullin (ADM) (NM_001124) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Adrenomedullin
Synonyms: AM; PAMP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200507 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGCTGGTTCCGTCGCCCTGATGTACCTGGGTTGCTCGCCTTCTAGGCGCTGACACCGCTCGGT
TGGATGTCGCGTCGGAGTTTCGAAAGAAGTGAATAAGTGGGCTCTGAGTCGTGGGAAGAGGGAAGTGGC
GATGTCCAGCAGCTACCCACCGGGCTCGCTGACGTGAAGGCCGGGCTGCCAGACCTTATTCGGCCC
CAGGACATGAAGGGTGCCTCTCGAAGCCCCGAAGACAGCAGTCCGGATGCCGCCCGCATCCGAGTCAAGC
GCTACCGCCAGAGCATGAACAATTCCAGGGCCTCCGGAGCTTTGGCTGCCGCTTCGGGACGTGCACGGT
GCAGAAGCTGGCACACCAGATCTACCAGTTCACAGATAAGGACAAGGACAACGTCGCCCCAGGAGCAAG
ATCAGCCCCAGGGCTACGGCCCGCGCCGGCCTCCCTGCCGAGGCCGGCCGGGTCGGACTCTGG
TGCTTTCTAAGCCACAAGCACACGGGGCTCCAGCCCCCGAGTGAAGTGTCCCCACTTTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200507 protein sequence
Red=Cloning site Green=Tags(s)

MKLVSVAMLYLGSFLGADTARLDVASEFRKKWNKVALSRGKRELRMSSSYPTGLADVKAQPAQTLIRP
QDMKGAASRPEDSSPDAARIRVKRYRQSMNMFQGLRSFGCRFGTCTVQKLAHQIYQFTDKDKDNVAPRSK
ISPQGYGRRRRRSLPEAGPGRTLVSCKPQAHGAPAPPSGSAHFL

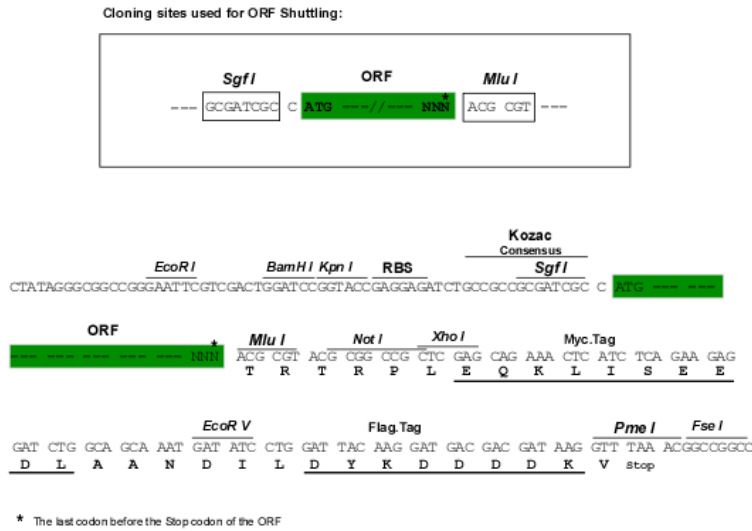
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6052_h10.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001124

ORF Size: 555 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001124.3](#)

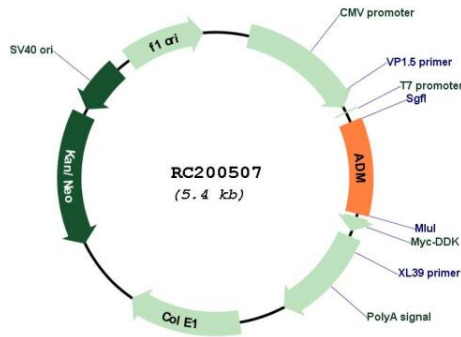
RefSeq Size: 1606 bp

RefSeq ORF: 558 bp

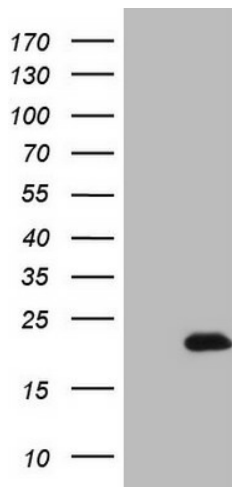
Locus ID: 133
UniProt ID: [P35318](#)
Cytogenetics: 11p15.4
Domains: Adrenomedullin
Protein Families: Druggable Genome, Secreted Protein
MW: 20.4 kDa

Gene Summary: The protein encoded by this gene is a preprohormone which is cleaved to form two biologically active peptides, adrenomedullin and proadrenomedullin N-terminal 20 peptide. Adrenomedullin is a 52 aa peptide with several functions, including vasodilation, regulation of hormone secretion, promotion of angiogenesis, and antimicrobial activity. The antimicrobial activity is antibacterial, as the peptide has been shown to kill *E. coli* and *S. aureus* at low concentration. [provided by RefSeq, Aug 2014]

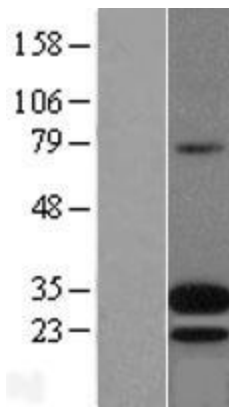
Product images:



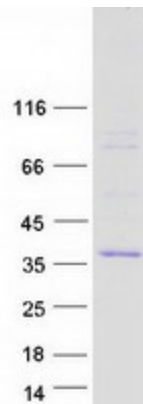
Circular map for RC200507



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ADM (Cat# RC200507, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADM (Cat# [TA807045]). Positive lysates [LY420111] (100ug) and [LC420111] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY420111]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200507 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADM protein (Cat# [TP300507]). The protein was produced from HEK293T cells transfected with ADM cDNA clone (Cat# RC200507) using MegaTran 2.0 (Cat# [TT210002]).