

Product datasheet for **RC215337**

AHNAK (NM_024060) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AHNAK (NM_024060) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AHNAK
Synonyms: AHNAKRS; PM227
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC215337 representing NM_024060
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGGAGGAGACAACCCGGGAGCTGCTGCTGCCAACTGGCAGGGTAGTGGCTCCCACGGGCTGA
CCATCGCCAGAGGGACGACGGCGTCTTTGTGCAGGAGGTGACGCAGAACTCCCTGCGGCCCGACTGG
GGTGGTCAAGGAGGGGACCAGATTGTGGGTGCCACCATCTACTTTGACAACCTGCAGTCGGGTGAGGTG
ACCCAGCTGCTGAACACCATGGGGCACCACACGGTGGGCTGAAGCTGCACCGCAAGGGGACCGCTCTC
CCGAGCCTGGCCAGACCTGGACCGTGAAGTCTTCAGCTCCTGCAGCTCTGAAGTGTCTGAACACACC
ACAGCCATCAGCACTGGAATGCAAAGACCAGAACAACAGAAGGAAGCCAGCAGCAAGCCGGGGCAGTT
TCAGTCTCCACCCAAATGCAGGACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215337 representing NM_024060
Red=Cloning site Green=Tags(s)
MEKEETRELLLPNWQSGSHGLTIAQRDDGVFVQEVTONSPAARTGVVKEGDQIVGATIFYDNLQSGEV
TQLLNTMGHHTVGLKLRKGRSPEPGQWTREVFSSCSSEVFLNTPQPSALECKDQNKQKEASSQAGAV
SVSTPNAGL

TRTRPLEQK**L**ISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6476_d01.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024060

ORF Size: 447 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_024060.4](#)

RefSeq Size: 1108 bp

RefSeq ORF: 450 bp

Locus ID: 79026

UniProt ID: [Q09666](#)

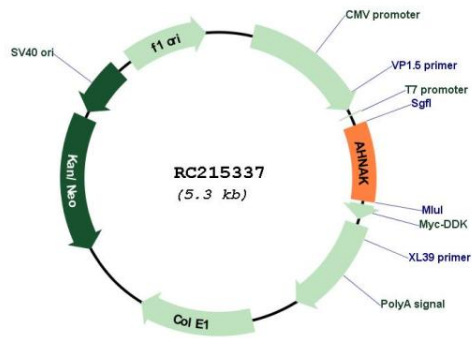
Cytogenetics: 11q12.3

Protein Families: Protease

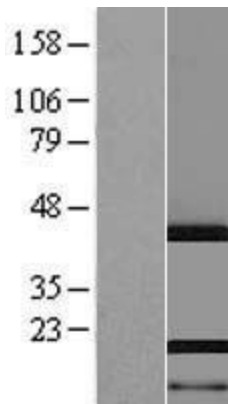
MW: 15.9 kDa

Gene Summary: The protein encoded by this gene is a large (700 kDa) structural scaffold protein consisting of a central domain with 128 aa repeats. The encoded protein may play a role in such diverse processes as blood-brain barrier formation, cell structure and migration, cardiac calcium channel regulation, and tumor metastasis. A much shorter variant encoding a 17 kDa isoform exists for this gene, and the shorter isoform initiates a feedback loop that regulates alternative splicing of this gene. [provided by RefSeq, Oct 2016]

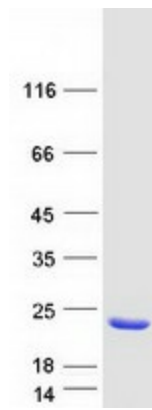
Product images:



Circular map for RC215337



Western blot validation of overexpression lysate (Cat# [LY411378]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215337 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AHNAK protein (Cat# [TP315337]). The protein was produced from HEK293T cells transfected with AHNAK cDNA clone (Cat# RC215337) using MegaTran 2.0 (Cat# [TT210002]).