

## 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

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215337 representing NM\_024060  
Red=Cloning site Green=Tags(s)  
MEKEETRELLLPNWQSGSHGLTIAQRDDGVFVQEVTONSPAARTGVVKEGDQIVGATIFYDNLQSGEV  
TQLLNTMGHHTVGLKLRKGRDRSPEPGQWTREVFSSCSSEVFLNTPQPSALECKDQNKQKEASSQAGAV  
SVSTPNAGL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6476\\_d01.zip](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.

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

RefSeq: [NM\\_024060.4](#)

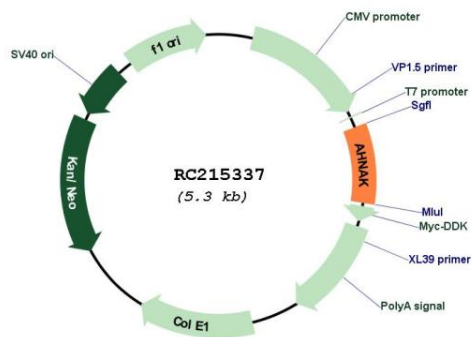
RefSeq Size: 1108 bp

RefSeq ORF: 450 bp

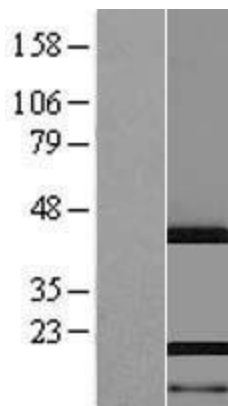
**Locus ID:** 79026  
**UniProt ID:** [Q09666](#)  
**Cytogenetics:** 11q12.3  
**Protein Families:** Protease  
**MW:** 15.9 kDa

**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]

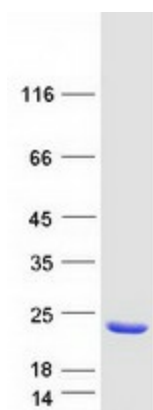
### Product images:



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]).