

## Product datasheet for RC218474

### AAMP (NM\_001087) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AAMP (NM_001087) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AAMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218474 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGAGTCCGAATCGGAAAGCGGGGCTGCTGCTGACACCCCCCACTGGAGACCCTAAGCTTCCATGGTG  
ATGAAGAGATTATCGAGGTGGTAGAACTTGATCCCGTCCGCCGACCCAGATGACCTGGCCAGGAGAT  
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GTTTTGTGTGAGCCTGGACCCCAAGACCAATACCTTGGCAGTGACCGGGGGTGAAGATGACAAAGCCTT  
CGTATGGCGGCTCAGCGATGGGGAGCTGCTCTTTGAGTGTGCAGGCCATAAAGACTCTGTGACTTGTGCT  
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TTCCAGGGTCCCAACTGCCAGCCACCTGTGGCCGAGTCTCCCTGATGGGAAGAGAGCTGTGGTAGGCT  
ATGAAGATGGGACCATCAGGATTTGGGACCTGAAGCAGGAAGCCCTATCCATGTAAGTAAAGGGACTGA  
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GACTGCCAGGCCAAGCTGGTCAGTGCCACCACCGCAAGGTGGTGGTGTGTTTGTAGACCTGAGACTGTGG  
CCTCCCAGCCCAGCCTGGGAGAAGGGGAGGAGAGTGTGCAACTCGGTGGAGTCCCTGGGCTTCTGCAG  
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GGGCCACACGGCTGAGATCCTGGACTTTGCCCTCAGCAAAGATGCCTCCCTGGTGGTGACCACGTGACGA  
GACCACAAAGCGAAAGTATTTTGTGTCCAAAGGCTGACCGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC218474 protein sequence  
Red=Cloning site Green=Tags(s)

```
MESESESGAAADTPPLETLSFHGDEEIIIEVVLDPGPPDPPDLAQEMEDVDFEEEEEEGNEEGWVLEPQ
EGVVGSMEGPDDSEVTFALHSASVFCVSLDPKTNLAVTGGEDDKAFVWRLSDGELLFECAGHKDSVTC
GFSDHSTLVATGDMSSGLLKVVQVDTKEEVWSFEAGDLEWMEWHPRAPVLLAGTADGNTWMWKVPNGDCKT
FQGPNCPATCGRVLPDGKRAVVGYEDGTIRIWDLKQGSPIHVLKGTGEHQGPLTCVAANQDGLILTGSV
DCQAKLVSATTGKVVGVFRPETVASQPSLGESESESNVESLGFCSVMPLAAVGYLDGTLAIYDLATQT
LRHQCCQHQSGIVQLLWEAGTAVVYTCSLDGI VRLWDARTGRLLTDYRGHTAEILDFALSKDASLVYVTTSG
DHKAKVFCVQRPR
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6454\\_g07.zip](https://cdn.origene.com/chromatograms/mk6454_g07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001087

**ORF Size:** 1302 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\\_001087.5](#)

**RefSeq Size:** 1859 bp

**RefSeq ORF:** 1305 bp

**Locus ID:** 14

**UniProt ID:** [Q13685](#)

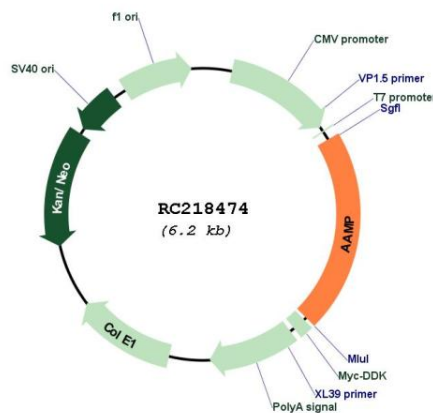
**Cytogenetics:** 2q35

**Domains:** WD40

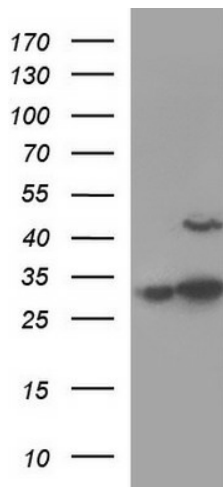
**MW:** 46.8 kDa

**Gene Summary:** The gene is a member of the immunoglobulin superfamily. The encoded protein is associated with angiogenesis, with potential roles in endothelial tube formation and the migration of endothelial cells. It may also regulate smooth muscle cell migration via the RhoA pathway. The encoded protein can bind to heparin and may mediate heparin-sensitive cell adhesion. [provided by RefSeq, Oct 2014]

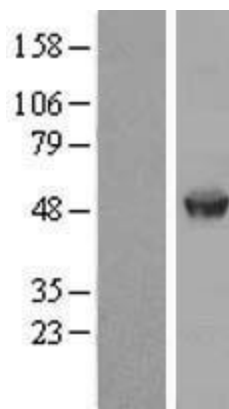
## Product images:



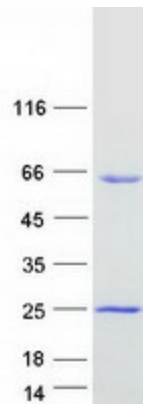
Circular map for RC218474



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AAMP (Cat# RC218474, 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-AAMP (Cat# [TA590749]). Positive lysates [LY421332] (100ug) and [LC421332] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY421332]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218474 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AAMP protein (Cat# [TP318474]). The protein was produced from HEK293T cells transfected with AAMP cDNA clone (Cat# RC218474) using MegaTran 2.0 (Cat# [TT210002]).