

## Product datasheet for **RC234526**

### AP180 (SNAP91) (NM\_001242794) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP180 (SNAP91) (NM_001242794) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP180
Synonyms:	AP180; CALM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234526 representing NM\_001242794  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGGGCCAAACGCTCACGGATCGGATCGCCGCCGCTCAGTACAGCGTTACAGGCTCTGCTGTAGCAA  
 GAGCGGTCTGCAAAGCCACTACTCATGAAGTAATGGGCCCAAGAAAAGCACCTGGACTATTTGATCCA  
 GGCTACCAACGAGACCAATGTTAATATTCTCAGATGGCCGACACTCTCTTTGAGCGGGCAACAAACAGT  
 AGCTGGGTGGTTGTGTTAAGGCTTTAGTGACAACACATCATCTCATGGTGCATGGAAATGAGAGATTTA  
 TTCAATATTTGGCTTCTAGAAATACACTATTCAATCTCAGCAATTTTTGGACAAAAGTGGATCCCATGG  
 TTATGATATGTCTACCTCATAAGGCGCTATAGTAGATATTTGAATGAAAAGGCTTTTTCTACAGACAG  
 ATGGCCTTTGATTTGCCAGGTGAAGAAAGGGCCGATGGTGAATGAGGACAATGGCTCCCGAAAAGC  
 TGCTAAAGAGTATGCCAATACTACAGGGACAAATTGATGCACTGCTTGAATTTGATGTCATCCAAATGA  
 ACTAACAAATGGTGCATAAATGCAGCATTATGCTTCTTTCAAAGATCTTATCAAACCTTTTTGCTTGC  
 TACAATGATGGTGTATTAACCTACTCGAAAAGTTTTTGAATGAAGAAAGGACAATGTAAGATGCTC  
 TAGAAATTTACAACGATTTCTAACTAGAATGACACGAGTGTCTGAATTTCTCAAGGTTGCAGAGGCTCC  
 CAGCAGTCTTATGGAGACGCTTGAACAGCATCTAAATACATTAGAAGGAAAGAAACCTGGAAACAACT  
 GGTGCTCCCTCTCCATTAAGTAAGTCTTCTCCAGCCACAACCTGTTACGCTCCTAATTCTACACCAGCTA  
 AAATAATTGACACATCCCACCGGTTGATTTATTTGCAACTGCATCTGCGGCTGTCCAGTCAGCACTTC  
 TAAACCATCTAGTGATCTCCTGGACCTCCAGCCAGACTTTTCTCTGGAGGGGCAGCAGCAGCCGACGA  
 CCAGCACCACCACCCTGCTGGAGGAGCCATGCATGGGGAGGATTTGGGGTCTTTTCATGGCGCCTT  
 CCCACTCTCCAGTGACTCCAGCTCAGAATAACCTGCTACAGCCCAATTTTGGGAGCTTTTGGGACAAC  
 GCCTTCAACTTCCAGCAGCAGCTCCTTTGATCCATCAGTGTGATGGTCTAGGTGATCTTTGATGCCA  
 ACCATGGCACCAGCTGGCAGCCTGCACCTGTCTCAATGGTACCACCCAGTCTGCAATGGCAGCCAGCA  
 AAGCCCTTGAAGTGATCTTGATTCATCTCTTGCCAGCTTAGTAGGCAATCTTGAATTTCTGGTACCAC  
 AACAAAAAGGGAGATCTTCAGTGAATGCTGGAGAGAAAAAGTTGACTGGTGGAGCCAACCTGGCAGCCT  
 AAAGTAGTCCAGCAACCTGGTCCAGCAGCGTTCACCAAGTGCACCTTTGCAAGGAGCTGTACCTCCAA  
 CCAGTTCAGTTCCTCTGTTGCCGGGCCCCATCGTTGGACAACCTGGAGCAGGATTTGGAATGCCTCC  
 TGCTGGGACAGGCATGCCATGATGCCTCAGCAGCCGGTATGTTGCACAGCCATGATGAGGCCCCCC  
 TTTGGAGCTGCCGCTGTACCTGGCAGCAGCTTTCTCAAGCCCTACACCTGCCAGTCAGAGTCCCAAGA  
 AACCTCCAGCAAAGACCATTAGCGGATCTTAACATCAAGGATTTCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234526 representing NM\_001242794  
 Red=Cloning site Green=Tags(s)

MSGQTLTDRIAAQYSVTGSAVARAVCKATTHEVMGPKKKHLDYLIQATNETNVNIPQMDTLFERATNS  
 SWVVVFKALVTTHLMVHGNERFIQYLASRNTLFLSNFLDKSGSHGYDMSTFIRRYRYLNEKAFSYRQ  
 MAFDFARVKKGADGVMRTMAPEKLLKSMPIQQIDALLEFDVHPNELTNGVINAAFMFLFKDLIKLFC  
 YNDGVINLLEKFFEMKKGQCKDALEIYKRFLTRMTRVSEFLKVAEAPSSLMETLEQHLNLTLEGKPKGNKS  
 GAPSPLSKSSPATTVTSPNSTPAKTIDTSPVDLFFATASAAVPVSTSKPSSDLLDLQPDFSSGGAAAAA  
 PAPPPPAGGATAWGGFGGSFMAPSPSPVTPAQNNLLQPNFEAAFHTPSTSSSSSFDPSVFDGLDGLLMP  
 TMAPAGQPAPVSMVPPSPAMAASKALGSDLSSLASLVGNLGISGTTTKKGLQWNAGEKLTGGANWQP  
 KVAPATWSAGVPPSAPLQGAVPPTSSVPPVAGAPSVGQPGAGFMPPAGTGMPMPMQPVMFAQPMRRP  
 FGAAAVPGTQLSPSPASQSPKPPAKDPLADLNIKDFL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

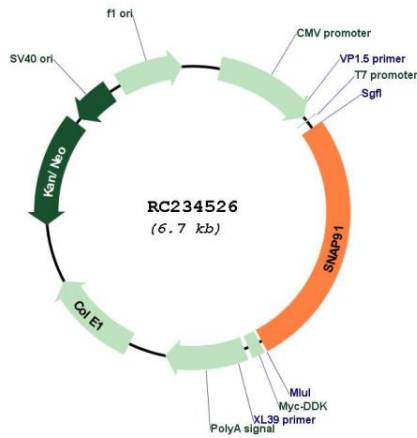
- ACCN:** NM\_001242794
- ORF Size:** 1800 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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\\_001242794.1](#), [NP\\_001229723.1](#)
- RefSeq Size:** 3340 bp
- RefSeq ORF:** 1803 bp
- Locus ID:** 9892
- UniProt ID:** [O60641](#)

**Cytogenetics:** 6q14.2

**MW:** 63.6 kDa

**Gene Summary:** Adaptins are components of the adapter complexes which link clathrin to receptors in coated vesicles. Clathrin-associated protein complexes are believed to interact with the cytoplasmic tails of membrane proteins, leading to their selection and concentration. Binding of AP180 to clathrin triskelia induces their assembly into 60-70 nm coats (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC234526