

## Product datasheet for **RC203773**

### TFAP4 (NM\_003223) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TFAP4 (NM_003223) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TFAP4
Synonyms:	AP-4; bHLHc41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203773 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTATTTTCATGGTGCCCACTCAGAAGGTGCCCTCTTTGCAACATTTAGGAAAACAGAGAAAGAAG  
TGATAGGAGGGCTCTGTAGCCTTGCCAACATTCCACTAACCCCGAGACTCAGCGGGACCAGGAGCGGCG  
GATTCGGCGGGAGATCGCCAACAGCAACGAGCGGAGACGCATGCAGAGCATCAACGCGGGATTCCAGTCC  
CTCAAGACCCTCATCCCCACACAGACGGAGAGAAGCTCAGCAAGGCAGCCATTCTCCAGCAGACAGCCG  
AGTACATCTTCTCCCTGGAGCAGGAGAAGACCAGGCTCTTGCAGCAGAACACACAGCTCAAGCGCTTCAT  
CCAGGAGCTGAGCGGCTCGTCCCCAAGCGACGGCGGGCAGAGGACAAGGACGAAGGCATAGGCTCCCCG  
GACATCTGGGAGGACGAGAAGGCGGAGGACCTGCGGCGGGAGATGATTGAGCTGCGGCAGCAGCTGGACA  
AGGAGCGCTCGGTGCGCATGATGCTGGAGGAGCAGGTGCGCTCGCTGGAGGCCACATGTACCCGAAAA  
GCTCAAGGTGATTGCGCAGCAGGTGCAGCTGCAGCAGCAGGAAACAGGTGAGGCTGCTGCACCAGGAG  
AAGCTGGAGCGGGAACAGCAGCAGCTGCGGACCCAGCTTCTGCCCTCCGGCCCCACCCACCACCCCA  
CGGTGATCGTGCCAGCACCGCTCCTCCTCCCTCCCACCACATCAATGTCGTACCATGGGCCCTCCTC  
GGTCATCAACTGTGTTCCACATCCCGGCAAAATCTGGACACCATCGTGCAGGCAATCCAGCACATCGAG  
GGCACCCAGGAAAAGCAGGAGCTGGAGGAGGAGCAGCGGCGAGCTGTCATCGTGAAGCCTGTCCGAGCT  
GCCCGGAGGCCCCACCTCTGACACCGCTCCGACTCCGAGGCCCTCAGACAGTGACGCCATGGACCAGAG  
CCGGGAGGAGCCGTCGGGGGACGGGAGCTTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203773 protein sequence  
Red=Cloning site Green=Tags(s)

MEYFMVPTQKVPSTLQHFRTKEVIGGLCSLANIPLTPETQRDQERRIRREIANSNERRRMQSINAGFQS  
 LKTLIPHTDGEKLSKAAILQQTAEYIFSLQEKTRLLQNTQLKRFIQELSGSSPKRRRAEDKDEGIGSP  
 DIWEDEKAEDLRREMIELRQQLDKERSVRMMLEEQVRSLEAHMYPEKLVIAQQVQLQQQEQVRLRHQE  
 KLEREQQQLRTQLLPPPAPTHHPTVIVPAPPPPPSHHINVVTMGPSSVINSVSTRQNLDTIVQAIQHIE  
 GTQEKQLEEEQRRRAVIVKPVRSCEAPTSDTASDSEASDSDAMDQSREEPSGDGELP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6087\\_c06.zip](https://cdn.origene.com/chromatograms/mk6087_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_003223

**ORF Size:** 1014 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\\_003223.3](#)

**RefSeq Size:** 2147 bp

**RefSeq ORF:** 1017 bp

**Locus ID:** 7023

**UniProt ID:** [Q01664](#)

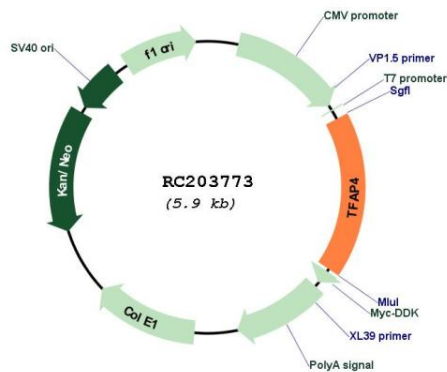
**Cytogenetics:** 16p13.3

**Protein Families:** Druggable Genome, Transcription Factors

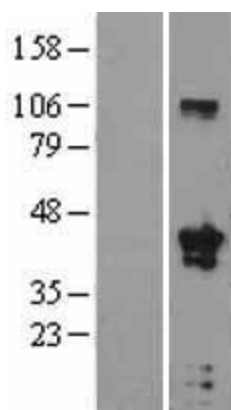
**MW:** 38.7 kDa

**Gene Summary:** Transcription factors of the basic helix-loop-helix-zipper (bHLH-ZIP) family contain a basic domain, which is used for DNA binding, and HLH and ZIP domains, which are used for oligomerization. Transcription factor AP4 activates both viral and cellular genes by binding to the symmetrical DNA sequence CAGCTG (Mermod et al., 1988 [PubMed 2833704]; Hu et al., 1990 [PubMed 2123466]).[supplied by OMIM, Jul 2009]

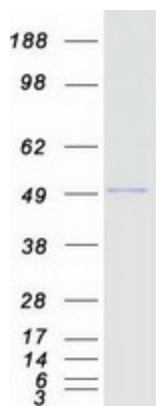
### Product images:



Circular map for RC203773



Western blot validation of overexpression lysate (Cat# [LY401113]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203773 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TFAP4 protein (Cat# [TP303773]). The protein was produced from HEK293T cells transfected with TFAP4 cDNA clone (Cat# RC203773) using MegaTran 2.0 (Cat# [TT210002]).