

Product datasheet for **RG203773**

TFAP4 (NM_003223) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFAP4 (NM_003223) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFAP4
Synonyms:	AP-4; bHLHc41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203773 representing NM_003223 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTATTTTCATGGTGCCCACTCAGAAGGTGCCCTCTTTGCAACATTTAGGAAAACAGAGAAAG
TGATAGGAGGGCTCTGTAGCCTTGCCAACATTCCACTAACCCCGAGACTCAGCGGGACCAGGAGCGGC
GATTCGGCGGGAGATCGCCAACAGCAACGAGCGGAGACGCATGCAGAGCATCAACGCGGGATTCCAGTCC
CTCAAGACCCTCATCCCCACACAGACGGAGAGAAGCTCAGCAAGGCAGCCATTCTCCAGCAGACAGCCG
AGTACATCTTCTCCCTGGAGCAGGAGAAGACCAGGCTCTTGCAGCAGAACACACAGCTCAAGCGCTTCAT
CCAGGAGCTGAGCGGCTCGTCCCCAAGCGACGGCGGGCAGAGGACAAGGACGAAGGCATAGGCTCCCCG
GACATCTGGGAGGACGAGAAGGCGGAGGACCTGCGGCGGGAGATGATTGAGCTGCGGCAGCAGCTGGACA
AGGAGCGCTCGGTGCGCATGATGCTGGAGGAGCAGGTGCGCTCGCTGGAGGCCACATGTACCCGAAAA
GCTCAAGGTGATTGCGCAGCAGGTGCAGCTGCAGCAGCAGCAGGAACAGGTGAGGCTGCTGCACCAGGAG
AAGCTGGAGCGGGAACAGCAGCAGCTGCGGACCCAGCTTCTGCCCTCCGGCCCCACCCACCACCCCA
CGGTGATCGTGCCAGCACCGCTCCTCCTCCCTCCCACCATCAATGTCGTACCATGGGCCCTCCTC
GGTCATCAACTGTGTTCCACATCCCGGCAAAATCTGGACACCATCGTGCAGGCAATCCAGCACATCGAG
GGCACCCAGGAAAAGCAGGAGCTGGAGGAGGAGCAGCGGCGAGCTGTCATCGTGAAGCCTGTCCGACGT
GCCCGGAGGCCCCACCTCTGACACCGCTCCGACTCCGAGGCCTCAGACAGTGACGCCATGGACCAGAG
CCGGGAGGAGCCGTCGGGGACGGGAGCTTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203773 representing NM_003223
 Red=Cloning site Green=Tags(s)

MEYFMVPTQKVPSLQHFRKTEKEVIGGLCSLANIPLTPETQRDQERRIRREIANSNERRRMQSINAGFQS
 LKTLIPHTDGEKLSKAAILQQTAEYIFSLQEKTRLLQNTQLKRFIQELSGSSPKRRRAEDKDEGIGSP
 DIWEDEKAEDLRREMIELRQQLDKERSVRMMLEEQVRSLEAHMYPEKLVIAQQVQLQQQEQVRLHQE
 KLEREQQQLRTQLLLPPPAPTHHPTVIVPAPPPPSHHINVTMGPSVINSVSTSRQNLDTIVQAIQHIE
 GTQEKQLEEEQRRAVIVKPVRSCEAPTSDTASDSEASDSDAMDQSREEPSGDGELP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 2149 bp

RefSeq ORF: 1017 bp

Locus ID: 7023

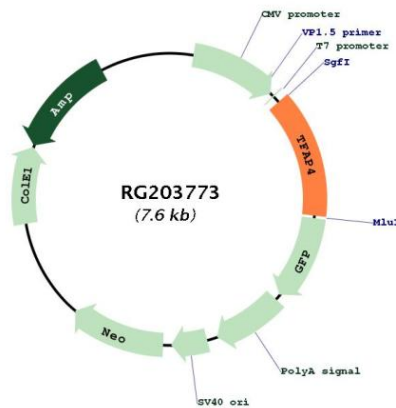
UniProt ID: [Q01664](#)

Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Transcription Factors

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 RG203773