

Product datasheet for RC214970

TAF3 (NM_031923) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAF3 (NM_031923) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAF3
Synonyms:	TAF140; TAFII-140; TAFII140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214970 ORF sequence, codon optimized . Due to the complexity of NM_031923, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCGAAAGCTATTCCAGATCTTTGCTTAGAGTTTCCGTTGCACAGATCTGCCAGGCATTGGGGTGGG
ACTCAGTGCAGCTCAGCGCTGTCAATTTGCTGACAGACGTGCTGCAGCGGTATCTGCAGCAGTTGGGCAG
AGGCTGTCACCGATACTCAGAGCTGTATGGGCGGACAGACCCATACTGGACGATGTTGGAGAGGCCCTTC
CAGCTGATGGGCGTCAGCCTGCACGAGCTTGAGGATTACATACACAATATCGAGCCGGTGACATTTCCGC
ACCAGATCCATCCTTTCCCGTATCCAAGAACAATGTGCTGCAGTTCCCCAGCCGGCAGTAAGGATGC
CGAAGAACGCAAAGAGTATATACCAGACTATCTGCCCCCATTGTCTCCTCCCAGGAGGAGGAGGAGGAG
GAACAGGTCCCGACCGATGGCGGTACCTCTGCAGAGGCAATGCAAGTACCCTCGAGGAGGATGATGAAC
TGGAAGAAGAAGAAATCATCAATGATGAGAACTTCCTCGCAAGCGACCCTTGGATTCCCAGAAGCCGA
GGAACCTCCCGCTATGAAGCGCCCTAGGCTTCTTTCTACCAAGGGGACACTCTCGATGTTGTGCTGCTC
GAAGCAAGAGAGCCTCTTTCTCCATCAACACACAAAAAATCCCCCGATGCTTTCTCCAGTGCACGTCC
AGGATAGTACCGACTGGCACCCTAGCCCCGAGCCTCCAATGCTGGCACCAGTCGAAAAATCCCAGAT
GCCGACAGCCAAACCGCTTGAAACTAAGAGCTTTACTCCAAGACGAAGACAAAGACCTCTAGCCCAGGA
CAAAAACTAAGAGTCCAAGACTGCTCAGAGCCAGCCATGGTGGGATCACCCATCAGAAGCCCTAAAA
CCGTGTCCAAAGAAAAGAAATCACCGGGAAGGTCAAAGTCACTAAATCACCCAAGAGTCTAAAGTGAC
AACTCATATACCGCAAACCCCTGTCCGCCCTGAAACGCCCAATAGGACCCCTTCAGTACGCTGTCCGAA
AAGATCTCTAAAGAGACTATTCAGGTTAAACAGATCCAGACCCCCCGATGCCGGGAAACTGAATTCGG



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AAAACCAGCCAAAGAAGGCCGTGGTCGCCGATAAGACCATTGAGGCAAGCATTGACGCGGTGATTGCTCG
 GGCATGCGCGGAGCGCGAACCCGATCCATTGAGTTCTCTCCGGCTCAGAGTCTGAGGGCGATATCTTC
 ACCAGCCCTAAAAGAATATCCGGCCCGGAGTGCACAACCTCCAAGGCGTCTACTTCTGCTAATAACTTTA
 CCAAGAGTGGCTCCACCCACTTCCACTCAGCGGAGGAACCTCTAGTAGCGATAATAGTTGGACAATGGA
 TGCCAGTATTGACGAGGTGGTTAGGAAGGCGAAGCTCGGGACCCCTAGTAATATGCCTCCAACCTTTCCA
 TATATCAGTTCACCTAGCGTTAGCCCCCAACACCTGAGCCCTGCACAAAGTCTATGAGGAGAAGACCA
 AACTGCCAAGCTCAGTCGAGGTTAAAAAGAACTGAAGAAAGAACTGAAGACTAAGATGAAGAAGAAGGA
 AAAACAGAGGGACCGCGAGCGGAAAAAGACAAGAACAAGACAAGAGCAAGGAAAAAGGATAAGGTCAAG
 GAAAAAGGAGAAGGACAAAGAGACTGAGCAGGAGACTAAATATCCCTGGAAGGAATTCCTGAAGGAGGAGG
 AAGCTGATCCCTATAAATCAAGATCAAGGAATTCGAGGACGTGGACCCAAAGGTCAAAGTGAAGGATGG
 ACTGGTTCGGAAGGAGAAGGAAAAGCACAAGACAAGAAAGAAAGATAGGGAGAAAGGCAAGAAAGACAAG
 GACAAGAGGAAAAGGAGAAGGTGAAGGACAAGGGCCGCGAGGATAAGATGAAGGCCCTGCCACCTC
 TGGTGCTCCGCCAAAAGAGCTGGCCTTGCCACTTTTTCCCTGCCACCGCTAGCCGCTGCCAGCCAT
 GTTGCCATCTGCTGCCGTGCTGCCGAAAACTGTTTGAAGAAAAAGAAAAAGTCAAAGAAAAGGAG
 AAAAAAAGATGAAGAAAGAGAAGAAAAAGAAAAAGAAAAAGAGAAGAGAAGGAAAAGGAGAGAG
 AAAAGGAGAAGAGGGAGCGGGAGAAGCGGGAAAAAGAAAAAGCAAGCAGCAGAGAAGATTAAAGGT
 TGAGCCTGTGGCCCTGGCTCCAAGCCCTGTGATTCTCGCTCACAAGTGGGGTAGGGGCGGGTCAAGAC
 AAGATAGTGATTAGCAAGGTAGTCCCAGCTCCCAGGCTAAGCCAGCGCCGTCTCAAATCGCCCCAAGA
 CCCCAGCCGCGGCCCGCCCGCCCGCACCTGGGCCAATGTTGGTTTACCCGCTCTGTGCCTTTCCCT
 CCTCGCCAGGACAGTCCCGGCTGCACTTTTGCCATCCCAGGGCCAGCCGCTAGCGGCGCAAGTGCC
 AAGGCCCTGTGCATCCGTGGTACTGAACTGTCAGCACATACGTTATTAGAGACGAGTGGGAAACC
 AGATTTGGATCTGCCCGGATGCAACAACCTGATGACGGATCTCCATGATTGGGTGTGACGATTGTGA
 TGACTGGTATCACTGGCCTGCGTGGGCATCATGACCGCACCGCTGAGGAAATGCAGTGGTTCTGTCCA
 AAGTGCCGCAACAAGAAGAAGGACAAGAACAAGAAGCGCAACACAGAGCACAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC214970 representing NM_031923

Red=Cloning site Green=Tags(s)

MCEYSRSLLRVSVAQICQALGWDSVQLSACHLLTDVLQRYLQQLGRGCHRYSELYGRTPILDVDDVGEAF
 QLMGVSLHELEDYIHNIIEPVTFPHQIPSPFVSKNNVLQFPQPGSKDAERKEYIPDYLPPIVSSQEEEE
 EQVPTDGGTSAEAMQVPLEEDELLEEEIINDENFLGKRPLDSPEAEELPAMKRPRLLSTKGDLDVLL
 EAREPLSSINTQKIPPMSPVHVQDSTDLAPPSPEPPMLAPVAKSQMPTAKPLETKSFTPKTKTKTSSPG
 QKTKSPKTAQSPAMVGSPIRSPKTVSKEKSPGRSKSPKSPKSPKVTTHIPQTPVRPETPNRTPSATLSE
 KISKETIQVKQIQTPPDAGKLNSENQPKKAVVADKTIEASIDAVIARACAEREPDPFEFSSGSESEGDIF
 TSPKRISGPECTTPKASTSANNFTKSGSTPLPLSGGTSSSDNSWTMDASIDEVVRKAKLGTSPNMPPNFP
 YISSPSVSPPTPEPLHKVYEEKTKLPSSVEVKKLKKELKTKMKKKEKQDREREKDKNKDKSKEKDKVK
 EKEKDKETGRETKYPWKEFLKEEEADPYKFKIKEFEDVDPKVKLKDGLVRKEKEKHKKDKKDKREKDKDK
 DKREKEKVKDKGREDKMKAPPLVLPKELALPLFSPATASRPAMLPVLLPVLPKLFEEKEKVKKEKE
 KKKDKKKEKKE
 KIVISKVVPAPAKPAPSQNRPKTPPPAPAPAGPMLVSPAPVPLPLLAQAAAGPALLPSPGPAASGASA
 KAPVRSVVTETVSTYVIRDEWGNQIWIICPGCNKPDDGSPMIGCDDCDDWYHWPVCGIMTAPPEEMQWFCP
 KCANKKDKKHKRKHRAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031923

ORF Size: 2787 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:

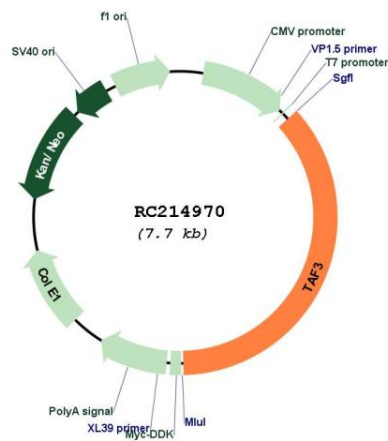
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_031923.1](#), [NM_031923.2](#), [NM_031923.3](#), [NP_114129.1](#)
RefSeq Size: 4875 bp

RefSeq ORF: 2790 bp

Locus ID: 83860
UniProt ID: [Q5VWG9](#)
Cytogenetics: 10p14
Protein Families: Druggable Genome
MW: 103.6 kDa
Gene Summary: The highly conserved RNA polymerase II transcription factor TFIID (see TAF1; MIM 313650) comprises the TATA box-binding protein (TBP; MIM 600075) and a set of TBP-associated factors (TAFs), including TAF3. TAFs contribute to promoter recognition and selectivity and act as antiapoptotic factors (Gangloff et al., 2001 [PubMed 11438666]).[supplied by OMIM, May 2009]

Product images:



Circular map for RC214970