

Product datasheet for **RC208552**

TAF5 (NM_006951) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAF5 (NM_006951) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAF5
Synonyms:	TAF(II)100; TAF2D; TAFII-100; TAFII100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208552 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGCTGGCGGAGGAGCAGACGGAGGTGGCGGTCAAGCTAGAGCCTGAGGGACGCCAACGCTGC
 TACCTCCGCAGGCGGGGACGGCCGAGGCGAGGGTAGCGCGGCACTACCAACAACGGCCCAACGCGCG
 CGGCGGGAACGTTGCGGCGTCTGCTCCACTGGCGGGGATGGCGGGACCCCAAGCCACGGTGGCTGTC
 TCCGCGCTGCCCGGCGGGGGCGGCCCGGTGCCCGCGCTGCTCCGGACGCGGCGCTCCGCATGACC
 GACAGACTCTACTGGCCGTGCTGCAGTTCCTACGGCAGAGCAAACCTCCGCGAGGCCGAAGAGGCGCTGCG
 CCGTGAGGCCGGCTGCTGGAGGAGGCAGTGGCGGGCTCCGGAGCCCGGAGAGGTGGACAGCGCCGGC
 GCTGAGGTGACCAGCGCTTCTCAGCCGGGTACCGCCTCGGCCCTGGCCCTGCGGCCCCGACCCTC
 CGGGCACTGGCGTTCGGGGGCCACGGTCTCAGGTTACGCTCAGGTCTGCGGCTCCGGTAAAGT
 TGGAGTGTGTGGAAGACCAGCCAGATGTCAGTCCGTGTTGTGAGCTACAACCAACAAGGAGAT
 CCCACAATGTATGAAGAATACTATAGTGGACTGAAACACTTCATTGAATGTTCCCTGGACTGCCATCGGG
 CAGAGTTGCCAACTTTTTATCCTCTGTTTGTGCACATGTAAGTGGAGCTAGTCTACAATCAACATGA
 GAATGAAGCAAAGTATTCTTTGAGAAGTTCATGGAGATCAGGAATGTTATTACCAGGATGACCTACGA
 GTATTACTAGTCTTACCAAAAAGGAACACATGAAAGGGAATGAGACCATGTTGGATTTTCGAACAAGTA
 AATTTGTTCTGCGTATTTCCCGTACTCGTACCAACTCTTGAAGAGGCATCTTCAGGAGAAAACAGAA
 TCAGATATGGAACATAGTTCAGGAGCACCTCTACATTGACATCTTGTGATGGGATGCCCGTGTAAAGCA
 CAGATAGATGCGATGGTGGGAAGTTTGGCAGGAGAGGCTAAACGAGAGGCAACAATCAAAGTATTTT
 TTGGTTTATAAAAAGAACCAGAAATGAGGTACCTTTGGATGACGAGGATGAAGAGGGGAAAAATGAAGA
 AGGAAAACTAAAAAGAAGCAAGCTAAAAAGATAGTATTGGATCCAAAAGCAAAAAACAAGATCCCAAT
 GCTCCACCTCAGAACAGAAATCCCTCTTCTGAGTTGAAAGATTACAGATAAGTTGGATAAGATAATGAATA
 TGAAAGAAACCACCAACGAGTGCCTTTGGCCGGACTGCTTACCCTCATTGTTTCTATACATTTCT
 CAATGCTTACCAGGTCTCACTGCAGTGGATGTCAGTGTGATTCTAGTCTGATTGCTGGAGTTTTGCA
 GATTCACTGTCAGAGTGGTTCGGTAACACCCAAAAGCTTCGTAGTGTCAAACAAGCATCAGATCTTA
 GTCTTATAGACAAAGAATCAGATGATGTCTTAGAAAGAATCATGGATGAGAAAACAGCAAGTGAAGTGA
 GATTTGTATGGTCACAGTGGCCTGTCTACGGAGCCAGCTTCAGTCCGGATAGGAACTATCTGCTTCC
 TCTTCAGAGGACGGAAGTGTAGATTGTGGAGCCTTCAAACATTTACTTGTGTTGGTGGGATATAAAGGAC
 ACAACTATCCAGTATGGGACACACAATTTCTCCATATGGATATTATTTGTGTCAGGGGCCATGACCG
 AGTAGCTCGGCTCTGGGCTACAGACCACTATCAGCCTTAAGAATATTTGCCGGCCATCTTGCTGATGTG
 AATTGTACCAGATTCCATCCAAATCTAATTATGTTGCTACGGGCTCTGCAGACAGAAGTGTGCGGCTCT
 GGGACGTCCTGAATGGTAACTGTGTAAGGATCTCACTGGACACAAGGGACCAATTCATTCTTGACATT
 TTCTCCAATGGGAGATTCTGGCTACAGGAGCAACAGATGGCAGAGTGTCTTTGGGATATTGGACAT
 GGTTTGTGGTGGAGAATTAAGGCCACACTGATACAGTCTGTTCACTTAGGTTTAGTAGAGATGGTG
 AAATTTGGCATCAGGTTCAATGGATAATACAGTTCGATTATGGGATGCTATCAAAGCCTTTGAAGATT
 AGAGACCGATGACTTTACTACGCCACTGGGCATATAAATTTACCTGAGAATTCACAGGAGTTATTGTTG
 GGAACATATATGACCAAAACAACACCAGTTGTACACCTTCATTTACTCTAAGAAACCTGTTTCTAGCTG
 CAGGAGCTTATAGTCCAAA

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208552 protein sequence

Red=Cloning site Green=Tags(s)

MAALAEQTEVAVKLEPEGPPTLLPPQAGDGAGEGSGGTTNNGPNGGGGNVAASSSTGGDGGTPKPTVAV
SAAAPAGAAPVPAAPDAGAPHDRQTLLAVLQFLRQSKLREAEALRREAGLLEEAVAGSGAPGEVDSAG
AEVTSALLSRVTASAPGPAAPDPPGTGASGATVVSASGPAAPGKVGSAVEDQPDVSAVLSAYNQQGD
PTMYEEYSSGLKHFIECSLDCHRAELSQLFYPLFVHMYLELVYNQHENEAKSFFEKFHGDQECYQDDL
VLSSLTKKEHMKGNEMLDLFRFSKFLRISRDSYQLLKRHLQEKQNNQIWNIVQEHLIYIDIFDGMPSKQ
QIDAMVGLAGEAKREANKSKVFFGLLKEPEIEVPLDDEDEEGENEKPKKKPKKDSIGSKSKKQDPN
APPQNRIPPELKDSDKLDKIMNMKETTQRVRLGPDCLPSICFYTFNLAYQGLTAVDVTDDSSLIAGGFA
DSTVRVWVTPKKLRSVKQASDLSLIDKESDDVLERIMDEKTASELKILYGHSGPVYGFSPDRNYLLS
SSEDGTVRLWSLQTFCLVGYKGNYPVWDTQFSPYGYFVSGGHDRVARLWATDHYQPLRIFAGHLADV
NCTRFHPNSNYVATGSADRTVRLWDVLNGNCVRIFTGHKGIHSLTFSPNGRFLATGATDGRVLLWDIGH
GLMVGELKGHDTVCSLRF SRDGEILASGSMNTVRLWDAIKAFEDLETDFFTTATGHINLPENSQELL
GTYMTKSTPVLHLHFTLRNLVLAAGAYSPQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



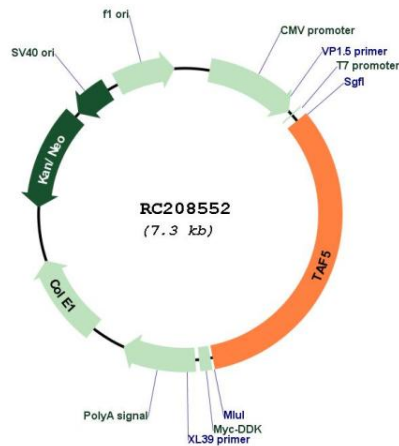
* The last codon before the Stop codon of the ORF

ACCN: NM_006951
 ORF Size: 2400 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_006951.5
RefSeq Size:	3283 bp
RefSeq ORF:	2403 bp
Locus ID:	6877
UniProt ID:	Q15542
Cytogenetics:	10q24.33
Protein Families:	Transcription Factors
Protein Pathways:	Basal transcription factors
MW:	86.8 kDa

Gene Summary:

Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes an integral subunit of TFIID associated with all transcriptionally competent forms of that complex. This subunit interacts strongly with two TFIID subunits that show similarity to histones H3 and H4, and it may participate in forming a nucleosome-like core in the TFIID complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:


Circular map for RC208552