

Product datasheet for **RC204138**

TAF10 (NM_006284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAF10 (NM_006284) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAF10
Synonyms:	TAF2A; TAF2H; TAFII30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204138 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGCTGCAGCGGCTCCGGCGCGGACCCGAGGCGGCGCGCCTCCGCCGCTCGGCCCGGGCCCCG
CGCCCCCGGTCTCGGCTCCCGCCGCGTGCCTCCAGCACCGCCGCGGAGAACAGGCCAGCCCCGCGGG
GACAGCGGGGGACCTGGGGCTGGAGCAGCTGCTGGGGGACGGGACCTTGGCGGCGGGGCCGGGAG
CCAGCTGAGCGGCGTGGGGCGGCTCCGGTGTGCGCGGTGGCGGCGCCCCGAGGGGGCCATATCTA
ACGGGGTTTACGTACTGCCGAGCGCGCAACGGAGACGTGAAGCCCGTGGTGTCCAGCACGCCTTGGT
GGACTTCTTGATGCAGCTGGAAGATTACAGCCTACGATCCAGATGCAGTGACTGGTTACTACCTGAAC
CGTGCTGGCTTTGAGGCTCAGACCCACGCATAATTCCGGCTCATCTCCTTAGCTGCCAGAAATTCATCT
CAGATATTGCCAATGATGCCCTACAGACTGCAAAATGAAGGGCACGGCCTCCGGCAGCTCCCGGAGCAA
GAGCAAGGACCGCAAGTACACTTAACCATGGAGGACTTGACCCCTGCCCTCAGCGAGTATGGCATCAAT
GTGAAGAAGCCGCACTACTTCACC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204138 protein sequence
 Red=Cloning site Green=Tags(s)

MSCSGSGADPEAAPASAASAPGPAPPVSAPAALPSSTAENKASPAGTAGGPGAGAAAGGTGPLAARAGE
 PAERRGAAPVSAGGAAPPEGAISNGVYVLPAAAGDVKPVVSTPLVDFLMQLEDYTPPTIPDAVTGYLNL
 RAGFEASDPRIIRLISLAAQKFISDIANDALQHCKMKGTASGSSRSKSKDRKYTLTMEDLTPALSEYGIN
 VKKPHYFT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6831_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006284

ORF Size: 654 bp

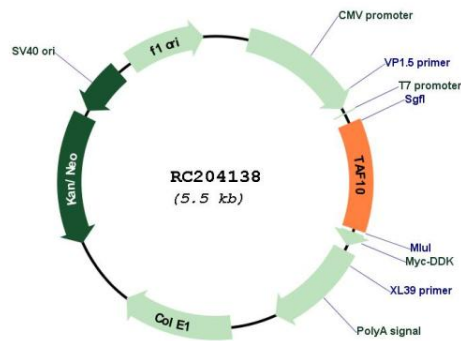
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

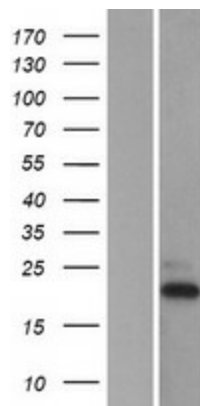
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_006284.4</u>
RefSeq Size:	834 bp
RefSeq ORF:	657 bp
Locus ID:	6881
UniProt ID:	<u>Q12962</u>
Cytogenetics:	11p15.4
Domains:	TFIID_30kD
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Basal transcription factors
MW:	21.7 kDa
Gene Summary:	<p>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 one of the small subunits of TFIID that is associated with a subset of TFIID complexes. Studies with human and mammalian cells have shown that this subunit is required for transcriptional activation by the estrogen receptor, for progression through the cell cycle, and may also be required for certain cellular differentiation programs. [provided by RefSeq, Jul 2008]</p>

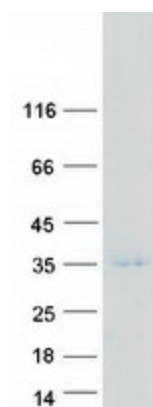
Product images:



Circular map for RC204138



Western blot validation of overexpression lysate (Cat# [LY416752]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204138 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TAF10 protein (Cat# [TP304138]). The protein was produced from HEK293T cells transfected with TAF10 cDNA clone (Cat# RC204138) using MegaTran 2.0 (Cat# [TT210002]).