**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC225149

## TAF12 (NM_001135218) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | TAF12 (NM_001135218) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | TAF12 |
| **Synonyms:** | TAF2J; TAFII20 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC225149 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCAGTTTGGCCCCTCAGCCCTAATCAACCTCTCCAATTTCTCATCCATAAAACCGGAACCAGCCA
GCACCCCTCCACAAGGCTCCATGGCCAATAGTACTGCAGTGGTAAAGATACCAGGCACTCCTGGGGCAGG
AGGTCGTCTTAGCCCTGAAAACAATCAGGTATTGACCAAGAAGAAATTACAGGACTTAGTAAGAGAAGTG
GATCCTAATGAGCAGTTGGATGAAGATGTGGAGGAGATGCTGCTGCAGATTGCTGATGATTTTATCGAGA
GTGTGGTGACAGCAGCCTGTCAGCTTGCGCGGCATCGCAAGTCTAGCACCCTGGAGGTGAAAGATGTCCA
GCTGCATTTAGAGCGCCAGTGGAACATGTGGATCCCAGGATTTGGCTCTGAAGAAATCCGACCCTACAAA
AAAGCTTGCACCACAGAAGCTCACAAACAGAGAATGGCATTGATCCGGAAAACAACCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC225149 protein sequence
Red=Cloning site Green=Tags(s)

MNQFGPSALINLSNFSSIKPEPASTPPQGSMANSTAVVKIPGTPGAGGRLSPENNQVLTKKKLQDLVREV
DPNEQLDEDVEEMLLQIADDFIESVVTAACQLARHRKSSTLEVKDVQLHLERQWNMWIPGFGSEEIRPYK
KACTTEAHKQRMALIRKTTKK

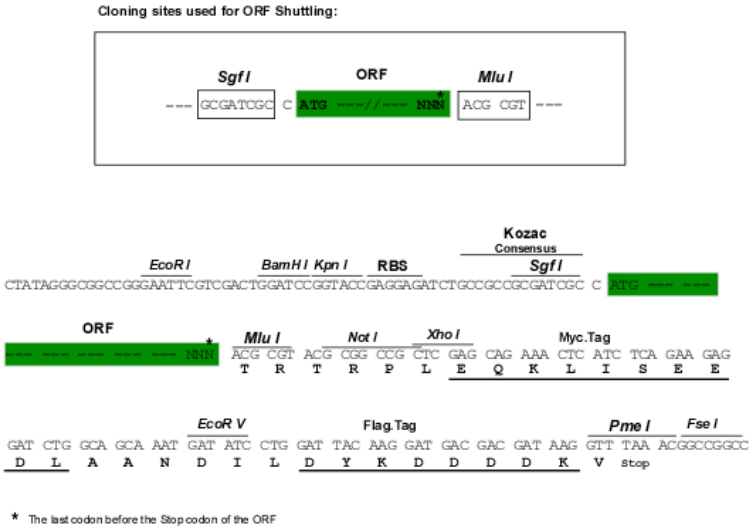
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6304_e12.zip

View online »

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001135218

**ORF Size:** 483 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

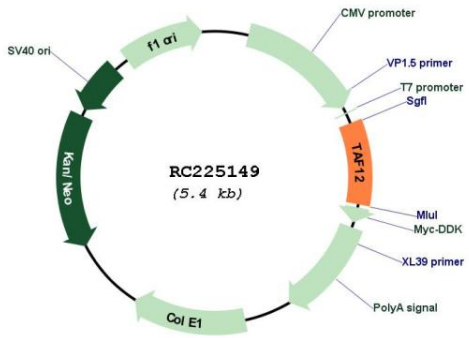
**RefSeq:** NM_001135218.2

**RefSeq Size:** 1466 bp

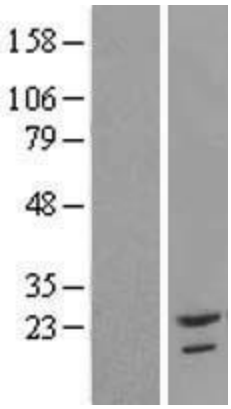
**RefSeq ORF:** 486 bp

| | |
|---|---|
| **Locus ID:** | 6883 |
| **UniProt ID:** | Q16514 |
| **Cytogenetics:** | 1p35.3 |
| **Protein Families:** | Transcription Factors |
| **Protein Pathways:** | Basal transcription factors |
| **MW:** | 17.9 kDa |
| **Gene Summary:** | Control of transcription by RNA polymerase II involves the basal transcription machinery which is a collection of proteins. These proteins with RNA polymerase II, assemble into complexes which are modulated by transactivator proteins that bind to cis-regulatory elements located adjacent to the transcription start site. Some modulators interact directly with the basal complex, whereas others may act as bridging proteins linking transactivators to the basal transcription factors. Some of these associated factors are weakly attached while others are tightly associated with TBP in the TFIID complex. Among the latter are the TAF proteins. Different TAFs are predicted to mediate the function of distinct transcriptional activators for a variety of gene promoters and RNA polymerases. TAF12 interacts directly with TBP as well as with TAF2I. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2008] |

## Product images:




Circular map for RC225149




Western blot validation of overexpression lysate (Cat# [LY427599]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225149 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).