

## Product datasheet for **RR202221**

### Taf1c (NM\_001014155) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Taf1c (NM_001014155) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Taf1c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR202221 representing NM\_001014155  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTTCCCCAGCACCTGCGTCCTTGTGTTTATGGCCGGTCTCTTGGCATGACTGATGGCCCCG  
 ACTTGTCTTCATGTGCAGCTGGAGAGATGCACTGACCCTGCCAGGGGCCAGCCACAGAAGTGCAGGGA  
 CCAGACATCGTCCTTTGCCAAGAACCTGCTGTGGGAGCCATCGACACCAGGACCCCTGCCCTGGTGCCT  
 CCTGGCCCTGATCCCTGGGACCCCTGGTCTGGCAGCTCAGGACTTCTCTTCCGGGGAGGTCACTACTACC  
 AGTACCAGTCTCGAGTTGTGCTGGATGTCACTGAGCAGCTCAGCCGCTTCTGTGGGACCATGGGGATAT  
 AGCCTTTGCACCCTGGGAAACTCATGCTGGAGAACTTCAGATTGGAGGGGAACCGGGGCTACTCGAAA  
 AAGGTGACCATAGTCAGCGTGAAGAGGCTGCTCAGGACCTCGGTGGACACCAGCCCTGGGGGTGTCCCT  
 GGGCTTCCCTCAGCCGCCGGCTACGTCGATTCTCTATCCTGGGGGTCCCGTCTAAGCAGTCCGTGTC  
 ATTGCTCATGGGGAGTTGCTGCATGAAGAGCTGGCCACGAGGTGGGAGCAGTTGCTGATGGATGAGGCC  
 TTCACCGGGGTGCTTTGGCCTGGCTGCCTGGAAGGACAGCACGGGCCGGGCAGCTGGTCTACCCTAGTG  
 GAGGTGCCTTGGACAAGCTGTATTTCCAGGAGGTCAAGTGTGAATTCAGGTGGCAACCCTCGGGTCTTGA  
 GGACCCTGGGCACATCCAGCTGCGGGGACCTGTACGGCAGGTGGTACTAGCACTGTCCAGGGAGAAACG  
 CTTCTGGCCGTCCGCTCTGACTACCACTGTGCTGTGTGGAAGATTGATAAGCAGGAGCCACCAGCACCCC  
 TGCAGGTGCTACAGGTGGAGAAGGGAGCCACTGGTATTAGCCTCAGCCCTCACCTGTGAGGAGAGCTGGC  
 CATCTGCAGCCGTTCTGGAAGTGTGTCTGTGGACCCCAAGATGGACTGCAGACAATCTACAAGGAC  
 CCTGAGACGCTTGCCTTCCGTGATCCGTCTCCCTGGCGCTGGCAGACTTACTGCCATCCCCGGGTGCT  
 TGACTGTGGGGACCCGACGGGTGTGAAAATGGTTGATATTCAGGGCCCGCCGGCTGTGGGTGCTGCT  
 GTTCTGTGCTGGAGCAGAAGCTGCCTGCCAGAAAGGAGAACGGGTGTGCTTGCCAGTACCTCGGGCAG  
 CCGGGTCTGCCTCTACGTCTCTACATCTCATCTGCACCCAGTTCTCGATCTACCTGATGGATGAGCGCC  
 TCCCCCTGGTGCCAATGCTTAAGTGGGACCATGGCCTGCCATCTGCACCCCTGCTTGCCCGCTGTACTC  
 CCCAGTACTGCTGGCTATCCCCGGCCCTGCTACTGGGGGCCAGGGTGGACAGGTTCACTGCTTAC  
 ATAGCAGGAGAGGGGACTTCCATTCCCCAGCTGGCAGGACCTCCTCAGTCTTGCCTCCATCACCGACT  
 CCCTCTCTGCCTTCCCCTGCTGGAACCAAGAGGCAGCAGCAGCTGCAGGAACCTGTGGAGGCGCCGT  
 CATAGGTCTGGCCGTGCCCGCCCTGTGCTCTGCGCCAGGCCCTGTTGCTTCCAGCTCTCAGCAGCT  
 GGGGACGCTTCTACCAGCACTGCGCATCCAGCAAACCTCCAGCCTCAGAGAGCCTGATCACCCAGCAC  
 CAGAACCGCCTGCATCCAGGGCGGCAGCACCTCCAGTGGACCAGGGATCCACACCCTCTTGACCTCTCG  
 GGCCAGTGCCCGTTGCAGCCGCTGGTTGGAGGCGCTGATGGAGTTGTCCCCCACTAATCCAGTGTGGGT  
 GCCCCACCTTCTCCACCGCCGTTTTCTGGGCCACATGGAGCGGCAGAAAGGCCAGGAGACCCTGGCAC  
 AGAAGCTCCAAGCAGCCATGGCCAAGGGGCAGCTCCTGCGGCCTGGGGACCTCGGTACACTCCCCAAGGC  
 AGAGCCACCCCTGCACCGCAGTGTAGCCAGCAGGATGAGCTCACTGAGCGCTTAACCAAGCCTGGGAA  
 GGCCAGGCAGCTGCCTGGTGGAAAAGACATCAAGATCAGACCTCCGGGTCCAGAGACAATCCAAGCGGC  
 CCAAGCGCCGACTCAGCTCTCTAGCACCTTCTCTCGTTACAAGCTACATGGACTCCCCAGATGCCAG  
 CAGTCCCCCTCACAGCAAGACCTCTAACTCTGAGGCCTGCCCTCAGCCACCCAGGACTCCACCCTCC  
 CAGGAGTTAACGCAGGAGCTGTGGGCCCAAGGTGTGCAGCATGAACGTGCCAGACCCTCCGGGACTACA  
 TGGCCAAGCTGCCACTTCAAGACAATCCAGGACCTGTGGCTACACCGCCCTCCCAGACCTTAGCCGCCA  
 GACCAGTCTTTCAGGCAGCAAACACTGCTCTCTGGCTCCCATCTCCCCGGAAGAAGCCACGAATG  
 GGCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR202221 representing NM\_001014155  
Red=Cloning site Green=Tags(s)

MDFPSTLRPSLFMAGPLGMTDGPDL SFMCSWRDAL TPGAQPQNCRDQTSSFAKNLLWEPSTPGPLPLVP  
PGPDPWPGLAAQDFLFRGGHYQYQSRVVL DVTEQLSRFLWDHGDIAFAPLGKLMLENFRLEGNRGYSK  
KVTIVSVKRLQLDLGGHQPWGPCWASL SRRLRRFSILGGPVL SRSVSLLMGRLLHEELATRWEQLLMDEA  
FTGGALAWLPGR TARAGQLVYPSGGALDKLYFQEVSVNSGGNPRVLEDPGHIQLRGPVRQVVTSTVQGET  
LLAVRSDYHCAVWKIDKQEPAPLQVLQVEKGATGISLSPHLSGELAICSRSGTVCLWTPQDGLQTIYKD  
PETLAFRDPSPWRWADFTAHPRVLTVGDR TGVMVDIQGPPGCGLLLFCAGAEAAACQKGERVLLAQYLGQ  
PGPASTSLHLICTQFSIYLMDERLPLVPMLKWDHGLPSAPLLARLLPPASPGYPRPLLLGGQGGQVQLLH  
IAGEGTSIPQLAGPPQSLPSITDSL SAFPLLEPKRQQQLQERLEAPVIGLAAAPPCASAPGLLLFQLSAA  
GDVYQHLRIQQTSSLREPDHPAPERPASRAAAPPVDQGSTPSWTSRASARCSRWLEALMEL SPTNPVWA  
APTFSHRRFLGHMERQKSQETLAQKLQAAMAKGQLLRPGDLGTLPKAEP PPAPQCSQQDELTERLTKAWE  
GQAAAWKRRHQDQTSQSQRQSKRPKRRTQLSSTFSSFTSYMDSPDASSAPHSQDLNSEACPQPPRTPPS  
QELTQELWAQGVQHERRQTLRDYMAKLP LQDNPGPVATPPSQTSSRQTRSFRQQT PVLSGSHPPRKKPRM  
GF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul

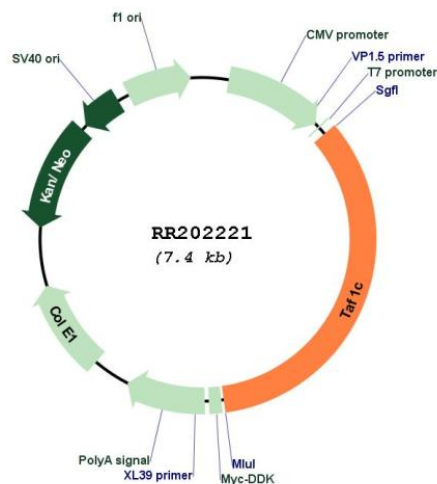
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001014155

ORF Size: 2526 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\\_001014155.1](#), [NP\\_001014177.1](#)

RefSeq Size: 3160 bp

RefSeq ORF: 2529 bp

Locus ID: 361420

UniProt ID: [Q6P773](#)

Cytogenetics: 19q12

**MW:** 92.4 kDa

**Gene Summary:** Component of the transcription factor SL1/TIF-IB complex, which is involved in the assembly of the PIC (preinitiation complex) during RNA polymerase I-dependent transcription. The rate of PIC formation probably is primarily dependent on the rate of association of SL1/TIF-IB with the rDNA promoter. SL1/TIF-IB is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA. Formation of SL1/TIF-IB excludes the association of TBP with TFIID subunits. Recruits RNA polymerase I to the rRNA gene promoter via interaction with RRN3 (By similarity).[UniProtKB/Swiss-Prot Function]