

## Product datasheet for **RG234377**

### TAF1C (NM\_001243158) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAF1C (NM_001243158) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAF1C
Synonyms:	MGC:39976; SL1; TAFI95; TAFI110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234377 representing NM\_001243158  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGTGGAGAAAGGGCCACGGGGATCAGCCTCAGCCCTCACCTGCCCGGGAGCTGGCCATCTGCA  
 GCCGCTCGGGAGCGTCTGCCTGTGGAGCCCTGAGGATGGCTGCGGCAATCTACAGGGACCTGAGAC  
 CCTCGTGTTCGGGACTCCTCTTCGTGGCGTTGGGCAGACTTCACTGCGCACCTCGGGTCTGACCGTG  
 GGTGACCGCACCGGAGTGAAGATGCTGGACACTCAGGGCCCGCGGGCTGTGGTCTGTTGCTTTTCGTT  
 TGGGGGCAGAGGCTTCGTGCCAGAAAGGGGAACGTGCTCTGTTACCCAGTACCTGGGCACTCCAGCCC  
 CAAATGCCTCCCCCTACTCTTCATCTCGTCTGTACCCAGTCTCTCTACCTAGTGGACGAGCGCCTT  
 CCCCTGGTGCCGATGCTGAAGTGAACCATGGCCTCCCCCTCCCCGCTCCTGCTGGCCGACTGCTGCCTC  
 CGCCCCGGCCAGCTGCGTGCAGCCCTGCTCCTCGGAGGCCAGGGTGGCAGCTGCAGCTGCTGCACCT  
 GGCAGGAGAAGGGGCGTGGTGCCTCCGCTGGCAGGCCCCCCCAGTCTTCTTCCAGGATCGACTCC  
 CTCCTGCATTTCTCTGCTGGAGCCTAAGATCCAGTGGCGGCTGCAGGAGCGCCTGAAAGCACCGACCA  
 TAGGTCTGGCTGCCGTCGTCCTCCGCCCTTGCCTCAGCGCCACACCCAGGCTGGTCTTCCAGCTCTC  
 GGCGGGGGAGATGTCTTACCAGCAGCTCCGCCCCAGGTGGACTCCAGCCTCCGAGAGATGTGGG  
 CCTCTGGCGACACCCAACTGACTGCCATGCCCCACAGCTTCTGGACCTCCAGGACTGCGCGGT  
 GCAGCCAGTGGCTGAAGGCCCTGCTAAAAGTCCCCTGGCTCCTCTGTGTGGACAGCACCCACCTTAC  
 CCACCGCCAGATGCTGGGCAGCAGAGCTGCGGAGGGAGGAAGAGGAAGGGCAGCGGTGGGTGTGCTC  
 CGCAAGGCCATGGCCGAGGGCAGCTCCTGCTGCAGAGAGACCTGGGCTCCCTCCCTGCGGCAGAGCCAC  
 CCCCTGCACCCGAGTCAGGCCTAGAGGACAAGTCAAGTGAAGCCCTGGGGGAAGCCTGGGCAGCCGAG  
 GGCTGCCTGGTGGGAGAGCAGCAGGGCAGGACCTCGGAGCCCGGAGACAGACCAGGCGGCCAAGCGC  
 CGGACCCAGCTGTCCAGCAGCTTTTCGCTCAGTGGCCATGTGGATCCCTCAGAGGACACCCAGCTCCCTC  
 ATAGCCCTGAGTGGCCACCTGCTGATGCTTGCCTGCCCCACGACCCCGCCCTCCAGGAGTTGAC  
 TCCGGATGCATGCGCCAGGGCGTCCCATCAGAGCAGCGGCAGATGCTCCGTGACTACATGGCCAAGCTA  
 CCACCCAGAGGGACACCCAGGCTGTGCCACCACCTCCCACTCCAGGCTCCAGCGTCCGGGCCA  
 CTCGCTCCAGCAGCACACCCGCTCTCTAGCTCTCAGCCCTCCGGAAGAAGCCTCGAATGGGCTT  
 C

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234377 representing NM\_001243158  
 Red=Cloning site Green=Tags(s)

MQVEKGATGISLSPHLPGELAIICSRGAVCLWSPEDGLRQIYRDPETLVFRDSSSWRWADFTAHPRLTV  
 GDRTGVKMLDTQPPGCGLLLFRLGAEASCQKGERVLLTQYLGHSSPKCLPPTLHLVCTQFSLYLVDERL  
 PLVPMKWNHGLPSPLLLARLLPPRPSCVQPLLLGGQGQLQLLHLAGEGASVPRLAGPPQSLPSRIDS  
 LPAFPLLEPKIQWRLQERLKAPTIGLAAVVPLPSAPTGLVLFQLSAAGDVFYQQLRPQVDSLRDAG  
 PPGDTQPDCHAPTASWTSQDTAGCSQWLKALLKVPLAPPVWTAPTFTHRQMLGSTELRREEEGQRLGVL  
 RKAMARGQLLQRDLGSLPAAEPPAPESGLEDKLSERLGEAWAGRGAAWWERQQGRTSEPGRQTRRPKR  
 RTQLSSSFSLSGHVDPS EDTSSPHSPEWPPADALPLPPTTPPSQELTPDACAQGVPSERQMLRDYMAKL  
 PPQRDTPGCATTPPHSQASSVRATRSQQHTPVLSQQPLRKKPRMGF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001243158

**ORF Size:** 1611 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\\_001243158.2](#)

**RefSeq Size:** 3379 bp

**RefSeq ORF:** 1614 bp

**Locus ID:** 9013

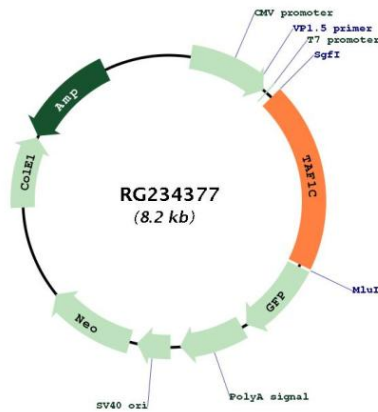
**UniProt ID:** [Q15572](#)

**Cytogenetics:** 16q24.1

**Protein Families:** Transcription Factors

**Gene Summary:** Initiation of transcription by RNA polymerase I requires the formation of a complex composed of the TATA-binding protein (TBP) and three TBP-associated factors (TAFs) specific for RNA polymerase I. This complex, known as SL1, binds to the core promoter of ribosomal RNA genes to position the polymerase properly and acts as a channel for regulatory signals. This gene encodes the largest SL1-specific TAF. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2011]

**Product images:**



Circular map for RG234377