

## Product datasheet for **RG218654**

### CA150 (TCERG1) (NM\_001040006) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CA150 (TCERG1) (NM\_001040006) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CA150  
**Synonyms:** CA150; TAF2S; Urn1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG218654 representing NM\_001040006  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGAGCGTGGCGGGACGGGGCGGAGAGTGAACGATTC AACCCGGGGAGCTCAGGATGGCCCAAC  
 AGCAGGCCTTGAGGTTCCGAGGTCGGCTCCCCACCAATGCAGTGATGCGAGGCCACCACCTCTGAT  
 GCGACCTCCTCCACCTTTTGGTATGATGCGAGGCCCTCCTCCACCACCACGGCCGCCCTTTGGACGTCT  
 CCTTTTGATCCTAATATGCCCAATGCCTCCTCAGGAGGATACCTCCACCTATGGGCCCTCCACACC  
 TCCAGAGACCACCTTTCATGCCTCCTCCATGAGTTCCATGCCTCCTCCTCGGGTATGATGTTTCCACC  
 AGGAATGCCTCCTGTGACTGCTCCTGGTACTCCAGCACTACCTCCTACGGAGGAGATATGGGTTGAAAT  
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 GAGTTAAGGTTATTAGCAATCAGAAGTACACCTATGCTTGCAGCCAGGCACAGGTTCCAGGCTCAGGC  
 CCAGGCGCAGGCTCAGGCCCAGGCGCAGGCTCAGGCCCAGGCACAAGCTCAGGCCCAGGCTCAGGCTCAG  
 GCCAGGCCCAGGCCCAGGCCCAGGCCCAGGCCAAGCCCAAGCCAGGCCCAGGCTCAGGCTCAGGCAC  
 AAGCTCAGGCCCAGGCCCAGGCTCAGGTCAGGCCCAGGTCAGGCACAAGTGAAGCACAAGCAGTTGG  
 AGCTTCCACCCCTACGACCAGTAGCCAGCACCTGCAGTATCCACTTCAACATCATCATCCACCCCTTCC  
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 AGACCCCAAGTTCTGCTGTTTCAGTTGCCAGCCTACAGTTAGTGTTCAACTCCTGCTCCTACAGCCAC  
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 CCAACAACAGCAATACCTGCTTTTCCACCAGTAATGGTACCTCCGTTTTCGTGTTCCCTTCTGGCATGC  
 CAATTCACCTTCCAGGTGATTGCCAGGAATGGCCCTCCTATCGTACCCATGATACATCCCCAGGTTGC  
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 GACGGAGGAGGATCCTAAAGAAGAGCCTATAAAGGAGATAAAGGAGGAGCCCAAGAAGAGGAGATG



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ACTGAAGAAGAAAAGGCTGCCAGAAGGCAAAGCCAGTTGCTACTGCTCCTATTCTGGTACTCCATGGT
GTGTCGTTTGGACTGGTATGAGCGGGTCTTCTTTATAATCCCACCCTCGTCTTTCTATGTGGGACCG
ACCTGATGATCTGATTGGCAGGGCAGATGTTGACAAAATATTACAGGAGCCCCCTATAAAAAAGGAATG
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GTGCAATTAAGAGGAACAAGAATTAATGGAAGAAATTAATGAAGATGAGCCTGTTAAAGCAAAAAACG
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TGTCGCTTTTTCAACGTGGGAGAAGGAGTTGCACAAGTAGTTTTTATCCCGGTACTIONTCTCAA
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AAAAATTTTACAGAATGACAAACGGTATCTAGTACTGGACTGTGTGCCAGAGGAGAGGCGTAAACTGATT
GTGGCATATGTTGATGACCTGGATCGCCGGGTCCACCCACCTCCACAGCATCGAGCCCACGAGAC
GATCAACAAA
    
```

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG218654 representing NM\_001040006  
 Red=Cloning site Green=Tags(s)

```

MAERGGDGGESERFNPGLRMAQQALRFRGPAPPNAVMRGPPPLMRPPPPFGMMRGGPPPPRPPFGRP
PFDPNMPPMPPGGIPPPMGPPLQRPPFMPPMSSMPPPPGMMFPPGMPPVTAPGTPALPPTTEIWWEN
KTPDGKVVYYNARTRESAWTKPDGVKVIQQSELTPMLAAQAQVQAQAQAQAQAQAQAQAQAQAQAQAQA
AQQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQAQA
STTSTTTTATSVAQTVSTPTTQDQTPSSAVSVATPTVSVSTPAPTATPVQTPVQPHQTLPPAVPHSVPQ
PTTAIPAFPPVMVPPFRVPLPGMPIPLPGVLPGMAPPVPMIHPQVAIAASPATLAGATAVSEWTEYKTA
DGKTYYYNNRLESTWEKPELKEKELEEKIKEPIKEPSEELPMETEEEDPKEEPIKEEPEEEM
TEEEKAAQKAKPVATAPIPGTPWCVVWTDERVFYFNPTRLSMWDRPDDLIGRADVDKIIQEPHKKGM
EELKLRHPTPTMLSIQKWQFSMSAIKEEQELMEEINEDEPVKAKKRKDDNKDIDSEKEAAMEAEIKAA
RERAIVPLEARMQKFDMLLERGVSAFSTWEKELHKIVFDPRYLLLNPKERKQVFDQYVKTAAEERREK
KNKIMQAKEDFKMMEEAKFNPRATFSEFAAKHAKDSRFKAIKMKDREALFNEFVAAARKKEKEDSKTR
GEKIKSDFELL SNHHLDSQSRWSKVKDKVESDPRYKAVDSSSMREDLFKQYIEKIAKNLDSEKEKELER
QARIEASLREREREVQKARSEQTKEIDREREQHKREEAIQNFKALLSDMVRSSDVSWSDRRTLKDRHW
ESGSLLEEEKEKLFNEHIEALTKKKREHFRQLLDETSAILTLSTWKEVKKIIKEDPRCIKFSDDRKKQ
REFEELYIRDKYITAKADFRTLLKETKFIYRSKKLIQESDQHLKDVKILQNDKRYLVLDVCPPEERRKLI
VAYVDDLDRRGGPPPPPTASEPTRRSTK
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001040006

**ORF Size:** 3231 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\\_001040006.1](#), [NP\\_001035095.1](#)

**RefSeq Size:** 4170 bp

**RefSeq ORF:** 3234 bp

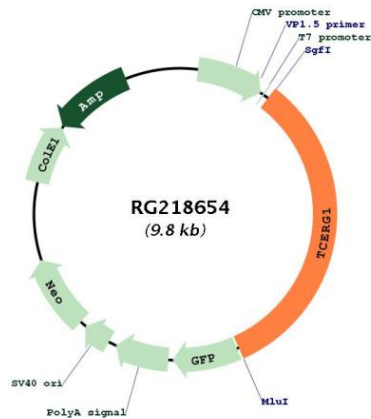
**Locus ID:** 10915

**UniProt ID:** [O14776](#)

**Cytogenetics:** 5q32  
**Protein Families:** Stem cell - Pluripotency, Transcription Factors  
**Protein Pathways:** Spliceosome

**Gene Summary:** This gene encodes a nuclear protein that regulates transcriptional elongation and pre-mRNA splicing. The encoded protein interacts with the hyperphosphorylated C-terminal domain of RNA polymerase II via multiple FF domains, and with the pre-mRNA splicing factor SF1 via a WW domain. Alternative splicing results in multiple transcripts variants encoding different isoforms. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG218654