

## Product datasheet for SC117716

### TIF1 alpha (TRIM24) (NM\_003852) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TIF1 alpha (TRIM24) (NM_003852) Human Untagged Clone
Tag:	Tag Free
Symbol:	TIF1 alpha
Synonyms:	hTIF1; PTC6; RNF82; TF1A; TIF1; TIF1A; TIF1ALPHA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_003852 edited  
 ATGGAGGTGGCGGTGGAGAAGGCGGTGGCGGCGGCGCAGCGGCCTCGGCTGCGGCCTCC  
 GGGGGCCCTCGGCGGCGCCGAGCGGGGAGAACGAGGCCGAGAGTTCGGCAGGGCCCGGAC  
 TCGGAGCGGCGGCGAGGCGGCCCGGCTCAACCTGTTGGACACTTGCGCCGTGTGCCAC  
 CAGAACATCCAGAGCCGGGCGCCCAAGCTGCTGCCCTGCCTGCACTCTTTCTGCCAGCGC  
 TGCTGCCGCGCCCCAGCGCTACCTCATGCTGCCCGCGCCCATGCTGGGCTCGGCCGAG  
 ACCCCGCCACCCGTCCCTGCCCCGGCTCGCCGGTCAGCGGCTCGTCGCCGTTGCCACC  
 CAAGTTGGAGTCAATTCGTTGCCAGTTTGCAGCCAAGAATGTGCAGAGAGACACATCATA  
 GATAACTTTTTGTGAAGGACACTACTGAGGTTCCAGCAGTACAGTAGAAAAGTCAAAT  
 CAGGTATGTACAAGCTGTGAGGACAACGCAGAAGCCAATGGGTTTTGTGTAGAGTGTGT  
 GAATGGCTCTGCAAGACGTGTATCAGAGCTCATCAGAGGTAAGTTACAAAAGACCAC  
 ACTGTCAGACAGAAAGAGGAAGTATCTCCAGAGGCAAGTTGGTGTACCAGCCAGCGACCA  
 GTGTTTTGTCTTTTTATAAAAAGGAGCAGCTGAAGCTGTACTGTGAGACATGTGACAAA  
 CTGACATGTGCGACTGTGAGTTGTTAGAACATAAAGAGCATAGATACCAATTTATAGAA  
 GAAGCTTTTCAGAAATCAGAAAAGTATCATAGATACACTAATCACCAAAGTATGAAAAA  
 ACAAATACATAAAATTCACAGGAAATCAGATCCAAAACAGAATTATTGAAGTAAATCAA  
 AATCAAAAGCAGGTGGAACAGGATATTAAGTTGCTATATTTACTGATGGTAGAAATA  
 AATAAAAGGAAAAGCTCTACTGCATCAGTTAGAGAGCCTTGCAAAGGACCATCGCATGAA  
 ACTTATGCAACAACAACAGGAAGTGGCTGGACTCTCTAAACAATTGGAGCATGTCATGCA  
 TTTTTCTAAATGGGCAGTTTTCCAGTGGCAGCAGTACAGCATTACTTTATAGCAAACGACT  
 GATTACATACCGTTACGGCACCTCCTTCGTGCAAGGTGTGATGCATCCCCAGTGACCAA  
 CAACACCATCCAATTTCACTGTGATCCTAGTTTCTGGGCTCAAAAATCATCAACTTAGG  
 TTCTTTAGTAATCGAGGATAAAGAGAGCCAGCCACAAATGCCTAAGCAGAATCCTGTCGT  
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 GCAACAGGTGCAACGGAGGCCAGCACCTGTGGGTTTACCAAACCTAGAATGCAGGGGCC  
 CATCCAGCAACCTTCCATCTCTCATCAGCAACCGCCTCCAGTTTGATAAACTTTAGAA



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TCACAGCCCCAAACCAATGGACCAGTTCTTCCTCCTCATCCTCAACAACCTGAGATATCC  
ACCAAACCCAGAACATACCACGACAAGCAATAAAGCCAAACCCCCTACAGATGGCTTTCTT  
GGCTCAACAAGCCATAAAACAGTGGCAGATCAGCAGTGGACAGGGAACCCCATCAACTAC  
CAACAGCACATCCTCTACTCCTCCAGCCCCACGATTACTAGTGCAGCAGGATATGATGG  
AAAGGCTTTTGGTTCACCTATGATCGATTTGAGCTCACCAGTGGGAGGGTCTTATAATCT  
TCCCTCTCTCCGGATATTGACTGTTCAAGTACTATTATGCTGGACAATATTGTGAGGAA  
AGATACTAATATAGATCATGGCCAGCCAAGACCCTCAAACGAAACGGTCCAGTCACC  
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TGCCCCGTGATAGTACAGGAGATCAACCTGGACTTCACCAGGACAATTCTCAAATGGAAA  
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CCTGGCTTTTCAAGACCCTGTTCTCTAACTGTGCCTGATTATTACAAAAAATTAATAAAA  
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ACCTGAAGATTTGTAGCTGATTTTAGATTGATCTTTCAAACCTGTGCTGAATTCATGA  
GCCTGATTCAGAAGTAGCCAATGCTGGTATAAACTTGAAAATTATTTTGAAGAACTTCT  
AAAGAACCTCTATCCAGAAAAAGGTTTCCCAAACAGAAATTCAGGAATGAATCAGAAGA  
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GCCATTTCTGTTAACCTCTTATCACTAAGAAAGAAAGGAAAGAAAGGAGATGAATAGAAG  
AAAGAAAATGGAAGAAGGAAAAAGGAGATAGAAAAAGGATGGAAGAAAGAAGCATTG  
AAAACAAAGACATTCTTCCCACTTCTTGGATTTTTAAACCACAGTCTGGAGTGATAGCTA  
CTGTAGAAAGGAAATAGACTTTGTATGAACTCTTTAAGTTGAAAAGTAAAAAATATATGT  
GGTTTGGATGTGTGCTTTAATTCAGCTTTAGAAATTAATACCACTACCCGTGAATTATAT  
GGCCTGACAATATGAATTAGGTGTACTGTACTGAAGAACAGTACTCCACAACATGGGTG  
GTAACAAGAGTCCATCCCAGGAGGCCAAACGGTGCAACAGAAGGGTAGGTTAGATGCTA  
TTAAGAAGGCCTTAATAGTACATCATGTAAGATGGCAACTGTATTAAGAAAAATCCGG  
AAAAACAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA  
CTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTCCTGGCCCTGGA  
AGTTGCCACTCC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003852 unedited  
 GGTTTCAGATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGGTCGGGGGC  
 GGCGGGCGNGAACCGCGCTCTCGCTTCCCCGGCGGCGCAAGGGCAGGACAATGGAGGTG  
 GCGGTGGAGAAGGCGGTGGCGGCGGCGGCGAGCGGCTCGGCTGCGGCCTCCGGGGGGCCC  
 TCGGCGGCGCGGAGCGGGGAGAACGAGGCCGAGAGTCGGCAGGGCCCGGACTCGGAGCGC  
 GGCGGCGAGGCGGCCCGGCTCAACCTGTTGGACACTTGCGCCGTGTGCCACCAGAATC  
 CAGAGCCGGGCGCCCAAGCTGCTGCCCTGCCTCTTTCTGCCAGCGCTGCCTGCCA  
 GCGCCCCAGCGCTACCTCATGCTGCCCGGCCCATGCTGGGCTCGGCCGAGACCCCGCCA  
 CCCGTCCTGCCCGGCTCGCCGGTCAGCGGCTCGTCCGCTTCCGCCACCCAAGTTGGA  
 GTCATTGTTGCCAGTTTGCAGCCAAGAATGTGCAGAGAGACACATCATAGATAACTTT  
 TTTGTGAAGGACTACTGAGGTTCCCAGCAGTACAGTAGAAAAGTCAAATCAGGTATGT  
 ACAAGCTGTGAGGACAACGCAGAAGCCAATGGGTTTTGTGTAGAGTGTGTGAATGGCTC  
 TGCAAGACGTGTATCAGAGCTCATCAGAGGGTAAAGTTCACAAAAGACCACACTGTCAGA  
 CAGAAAGAGGAAGTATCTCCAGAGGCAGTTGGTGTACCAGCCAGCGACCAGTGTTTTGT  
 CCTTTTCATAAAAAGAGCAGCTGAAGCTGTACTGTGAGACATGTGACANACTGACATGTC  
 GAGACTGTCAGTTGTTAGAACTANAGAGCTAGATACCAATTATAGAAGAGCTTTTCAGAT  
 CAGNAAGTGATCTAGATC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003852 unedited  
 ATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGTTTTCCGGATTTTTCTTTAATACAGTTG  
 CCATCTTACATGATGACTATTAAGTGCCTTCTAATAGCATCTAACCTACCTTCTGTT  
 GCACCGTTTGGCCTCCTGGGATGGAACCTTGTACCACCCATGTTTGTGGAGTACTGTT  
 CTTAGTACAGTACACCTAATTCATATTGTGAGCCATATAATTCACGGGTAGTGGTATT  
 AATTTCTAAAGCTGAATTAAGCACACATCAAACCACATATTTTTTACTTTTCAACT  
 TAAAGAGTTCATACAAAGTCTATTTCTTTCTACAGTAGCTATCACTCCAGACTGTGGTT  
 TAAAATCCAAGAAGTGGGAAGAATGCTTTGTTTTCAATGCTTCTTCTCCATCCTTT  
 TTCTATCTCTTTTTCTTTCTTTCCATTTTTCTTTCTTCTATTTCATCTCCTTTCTTCT  
 TTCTTTCTTAGNATAAGAGGTTAACAGAAATGGGCTATTAAGGAAATCAAAGTCTAGTA  
 AACGTCCAAAACAGAGATGAGAATAGTCACAAACTCTCCTTTTTGTAGCGATGTTAAATA  
 CTGACAAATGTTTTTTTTGAAACCAAAAAATCTANAACCAGCACAAGCCTAGTGGTGT  
 GCATATTATTTAAGCACCTGGCGTTTTCTCATGCTTTTGAGGCGTTTCTCCGGGCTGTC  
 CAAGTCTTATTCTGAACATCCCTAAATTCATTACCTTCTGATCATTCTGAATTCTGGTT  
 TGGAAAACCTTTTTTTGAAAGAAGCTTTAAAAGATCCTTAAAAATTTTAAATTTTA  
 ATCCACATTGGCTATTTGAGATAGGCTCATTGATTCCCCCAGTTTGAAGATCATTTA  
 AAAAAACTACCAATTTCAAGGTTTGAATCCTGGGAAAATTTTCTGGACTCTTTTTTAA  
 TGTGTGACAAACCTGGGATCTTAATATTTGTAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003852

**Insert Size:**

4110 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_003852.3](#), [NP\\_003843.3](#)

**RefSeq Size:** 3905 bp

**RefSeq ORF:** 3051 bp

**Locus ID:** 8805

**UniProt ID:** [O15164](#)

**Cytogenetics:** 7q33-q34

**Domains:** zf-B\_box, BROMO, RING, PHD, BBC

**Protein Families:** Druggable Genome, Protein Kinase, Transcription Factors

**Gene Summary:** The protein encoded by this gene mediates transcriptional control by interaction with the activation function 2 (AF2) region of several nuclear receptors, including the estrogen, retinoic acid, and vitamin D3 receptors. The protein localizes to nuclear bodies and is thought to associate with chromatin and heterochromatin-associated factors. The protein is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains - a RING, a B-box type 1 and a B-box type 2 - and a coiled-coil region. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.