

Product datasheet for RC218319

TIF1 alpha (TRIM24) (NM_003852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIF1 alpha (TRIM24) (NM_003852) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TIF1 alpha
Synonyms:	hTIF1; PTC6; RNF82; TF1A; TIF1; TIF1A; TIF1ALPHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218319 representing NM_003852 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGAGGTGGCGGTGGAGAAGGCGGTGGCGGGCGGCGGAGCGGCCTCGGCTGCGGCCTCCGGGGGGCCCT
CGGCGGCGCCGAGCGGGGAGAACGAGGCCGAGAGTCCGGCAGGGCCCGGACTCGGAGCGGGCGGCGGAGGC
GGCCCGGCTCAACTGTTGGACACTTGCCTGTGCCACCAGAACATCCAGAGCCGGGCGCCCAAGCTG
CTGCCCTGCTGACTCTTTCTGCCAGCGCTGCCTGCCCGGCCCGAGCGCTACCTCATGCTGCCCGGC
CCATGCTGGGCTCGGCCGAGACCCGCCACCCGTCCCTGCCCGGCTCGCCGGTCCAGCGGCTCGTCGCC
GTTCCGCCACCAAGTTGGAGTCATTGTTGCCAGTTTGCAGCCAAGAATGTGCAGAGAGACACATCATA
GATAACTTTTTGTGAAGGACACTACTGAGTTCCAGCAGTACAGTAGAAAAGTCAAATCAGGTATGTA
CAAGCTGTGAGGACAACGAGAAGCCAATGGGTTTTGTGTAGAGTGTGTTGAATGGCTCTGCAAGACGTG
TATCAGAGCTCATCAGAGGTAAGTTCACAAAAGACCACACTGTGAGACAGAAAGAGGAAGTATCTCCA
GAGGCAGTTGGTGTCCAGCCAGCGACCAGTGTGTTGTCCTTTTCATAAAAAGGAGCAGCTGAAGCTGT
ACTGTGAGACATGTGACAACTGACATGTCGAGACTGTGATGTTGTTAGAACATAAAGAGCATAGATACCA
ATTTATAGAAGAAGCTTTTCAGAAATCAGAAAGTGCATAGATACACTAATCACCAAAATGATGGAAAA
ACAAAATACATAAAATTCACAGGAAATCAGATCCAAAACAGAATTATTGAAGTAAATCAAATCAAAGC
AGGTGGAACAGGATATTAAGTTGCTATATTTACACTGATGGTAGAAATAAATAAAAAGGAAAAGCTCT
ACTGCATCAGTTAGAGAGCCTTGCAAAGGACCATCGCATGAAACTTATGCAACAACAACAGGAAAGTGGCT
GGACTCTCTAAACAATTGGAGCATGTCATGCAATTTTCTAAATGGGAGTTTCCAGTGGCAGCAGTACAG
CATTACTTTATAGCAAACGACTGATTACATACCGGTTACGGCACCTCCTTCGTGCAAGGTGTGATGCATC
CCCAGTGACCAACAACACCATCCAATTTCACTGTGATCCTAGTTTCTGGGCTCAAATATCATCAACTTA
GGTTCTTTAGTAATCGAGGATAAAGAGAGCCAGCCACAAATGCCTAAGCAGAATCCTGTCGTGGAACAGA
ATTCACAGCCACCAAGTGGTTTATCATCAAACCAGTTATCCAAGTCCCAACACAGATCAGCCTAGCTCA
ATTACGGCTCCAGCATATGCAGCAACAGCAACCGCCTCCAGTTTGATAAACTTTGAGAATCACAGCCCC



[View online »](#)

AAACCCAATGGACCAGTTCTTCCTCCTCATCTCAACAACCTGAGATATCCACCAAACCAGAACATACCAC
 GACAAGCAATAAAGCCAAACCCCTACAGATGGCTTTCTTGGCTCAACAAGCCATAAAACAGTGGCAGAT
 CAGCAGTGGACAGGGAACCCCATCAACTACCAACAGCACATCCTCTACTCCTCCAGCCCCACGATTACT
 AGTGCAGCAGGATATGATGGAAGGCTTTTGGTTCACCTATGATCGATTTGAGCTCACCAGTGGGAGGGT
 CTTATAATCTTCCTCTCTTCCGGATATTGACTGTTCAAGTACTATTATGCTGGACAATATTGTGAGGAA
 AGATACTAATATAGATCATGGCCAGCCAAGACCACCCCTCAAACAGAACGGTCCAGTCACCAAAATTCATCA
 GTGCCATCTCCAGGCCTTGCAAGACCTGTTACTATGACTAGTGTACACCCCCCAATACGTTACCTAGTG
 CCTCCAGCGTTGGAAGCCGAGGAAGCTCTGGCTCTCCAGCAAACCAGCAGGAGCTGACTCTACACACAA
 AGTCCCAGTGGTCATGCTGGAGCCAATTGGAATAAAACAAGAAAAACAGTGGACCACCGGAAAATTATGAT
 TTCCCTGTTGTTATAGTGAAGCAAGAATCAGATGAAGAATCTAGGCCTCAAAATGCCAATTATCCAAGAA
 GCATACTCACCTCCCTGCTCTTAATAGCAGTCAGAGCTCTACTTCTGAGGAGACTGTGCTAAGATCAGA
 TGCCCCTGATAGTACAGGAGATCAACCTGGACTTACCAGGACAATTCTCAAATGGAAAGTCTGAATGG
 TTGGATCCTTCCAGAAGTACCTCTTCATGTTGGAGAGACAAGGAAAGAGGATGACCCCAATGAGGACT
 GGTGTGCAGTTTGTCAAACGGAGGGAACTCCTCTGCTGTGAAAAGTGCSCCAAGTATCCATCTTTT
 TTGTCATGTGCCACATTGACAAATTTTCCAAGTGGAGAGTGGATTTGCCTTTCTGCCGAGACTTATCT
 AAACCAGAAGTTGAATATGATTGTGATGCTCCAGTCACAACCTCAGAAAAAAGAAAACTGAAGGCCTTG
 TTAAGTTAACACCTATAGATAAAAGGAAGTGTGAGCGCCTACTTTTATTTCTTTACTGCCATGAAATGAG
 CCTGGCTTTTCAAGACCTGTTCTCTAACTGTGCCTGATTATTACAAAAAATTAATAAAATCCAATGGAT
 TTGTCAACCATCAAGAAAAGACTACAAGAAGATTATCCATGACTCAAAACCTGAAGATTTTGTAGCTG
 ATTTTAGATTGATCTTTCAAACCTGTGCTGAATCAATGAGCCTGATTGAGAAGTAGCCAATGCTGGTAT
 AAAACTTGAAAATTTTTGAAGAACTTCTAAAGAACCTCTATCCAGAAAAAAGGTTTCCCAAACAGAA
 TTCAGGAATGAATCAGAAGATAATAAATTTAGTGATGATTCAGATGATGACTTTGTACAGCCCCGGAAGA
 AACGCCTCAAAGCATTGAAGAACGCCAGTTGCTTAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218319 representing NM_003852
 Red=Cloning site Green=Tags(s)

MEVAVEKAVAAAAAASAAASGGPSAAPSGENEAESRQGPDSERGGEAARLNLLDTCVCHQNIQSRAPKL
 LPCLHSFCQRCLPAPQRYLMLPAPMLGSAETPPPVPAPGSPVSGSSPFATQVGVIRCPVCSQECAERHII
 DNFFVKDTTEVPSSTVEKSNQVCTSCEDNAEANGFCVECEWELCKTCIRAHQRVKFTKDHTVVRQKEEVSP
 EAVGVTSQRPVFCPFHKKEQLKLYCETCDKLTCDRCQLLEHKEHRYQFIEEAFQNKQVIIDTLITKLMEK
 TKYIKFTGNQIQNRIIEVNQNKQVEQDIKVAIFITLMVEINKK GKALLHQLLESLAKDHRMMLMQQQEVA
 GLSKQLEHVMHF SKWAVSSGSSTALLYSKRLITYRLRHLLRARCDASPVNTNTIQFHCDPSFWAQNIINL
 GSLVIEDKESQPQMPKQNPVVEQNSQPPSGLSSNQLSKFPTQISLAQLRLQHMQQQPPRRLINFQNHSP
 KPNGPVLPPHPQLRYPPNQNI PRQA IKPNPLQMAFLAQQA IKQWQISSGQGPSTTNTSSTPSSPTIT
 SAAGYDGFAGSPMIDLSSPVGGSYNLPSLPDIDCSSTIMLDNI VRKDTNIDHGQPRPPSNRTVQSPNSS
 YPSPGLAGPVMTMSVHPPIRSPSASSVSGSRGSSGSSSKPAGADSTHKVPVVMLEPIRIKQENSGPPENYD
 FPVVIVKQESDEESRPQNANYPRSILTSLLLNSSQSSTSEETVLRSDAPDSTGDQPLHQDNSSNGKSEW
 LDPSQKSPLHVGETRKEDDPNEDWCAVCQNGGELL CCEKCPKVFHLSCHVPTLTNFPSEGICTFCRDL S
 KPEVEYDCDAPSHNSEKKTTEGLVKLTPIDKRKCERLLLFLYCHEMSLAFQDPVPLTVPDYKIIKNPMD
 LSTIKKRLQEDYSMYSKPEDFVADFRLIFQNCAEFNEPDSEVANAGIKLENYFEELLKNLYPEKRFPKPE
 FRNESEDNKFSDSDDDFVQPRKKRLKSI EERQLLK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8079_g09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003852

ORF Size: 3048 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_003852.4](#)

RefSeq Size: 3905 bp

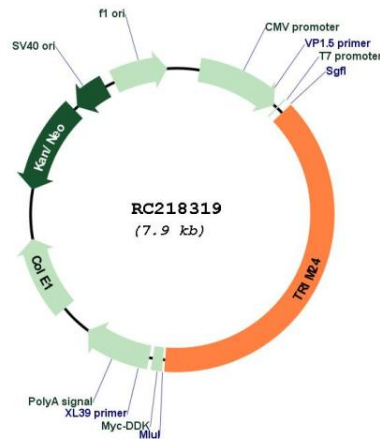
RefSeq ORF: 3051 bp

Locus ID: 8805

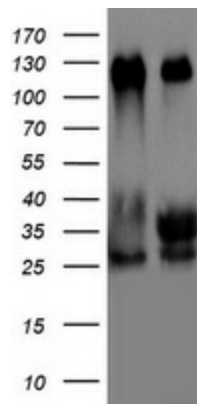
UniProt ID: [O15164](#)
Cytogenetics: 7q33-q34
Domains: zf-B_box, BROMO, RING, PHD, BBC
Protein Families: Druggable Genome, Protein Kinase, Transcription Factors
MW: 112.8 kDa

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]

Product images:


Circular map for RC218319



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRIM24 (Cat# RC218319, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRIM24(Cat# [TA802797]).