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Product datasheet for RG218319

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:	TurboGFP
Symbol:	TIF1 alpha
Synonyms:	hTIF1; PTC6; RNF82; TF1A; TIF1; TIF1A; TIF1ALPHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG218319 representing NM_003852
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAACTTATGCAACAACAACAGGAAGTGGCTGGACTCTCTAAACAATTGGAGCATGTCATGCATTTTT
CTAAATGGGCAGTTTCCAGTGGCAGCAGTACAGCATTACTTTATAGCAAACGACTGATTACATACCGGTT
ACGGCACCTCCTTCGTGCAAGGTGTGATGCATCCCCAGTGACCAACAACACCATCCAATTTCACTGTGAT
CCTAGTTTCTGGGCTCAAAATATCATCAACTTAGGTTCTTTAGTAATCGAGGATAAAGAGAGCCAGCCAC
AAATGCCTAAGCAGAATCCTGTCGTGGAACAGAATTCACAGCCACCAAGTGGTTTATCATCAAACCAGTT
ATCCAAGTTCCCAACACAGATCAGCCTAGCTCAATTACGGCTCCAGCATATGCAGCAACAGGTAATGGCT
CAGAGGCAACAGGTGCAACGGAGGCCAGCACCTGTGGGTTTACCAAACCCTAGAATGCAGGGGCCCATCC
AGCAACCTTCCATCTCTCATCAGCAACCGCCTCCACGTTTGATAAACTTTCAGAATCACAGCCCCAAACC
CAATGGACCAGTTCTTCCTCCTCATCCTCAACAACTGAGATATCCACCAAACCAGAACATACCACGACAA
GCAATAAAGCCAAACCCCCTACAGATGGCTTTCTTGGCTCAACAAGCCATAAAACAGTGGCAGATCAGCA
GTGGACAGGGAACCCCATCAACTACCAACAGCACATCCTCTACTCCTTCCAGCCCCACGATTACTAGTGC
AGCAGGATATGATGGAAAGGCTTTTGGTTCACCTATGATCGATTTGAGCTCACCAGTGGGAGGGTCTTAT
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CTAATATAGATCATGGCCAGCCAAGACCACCCTCAAACAGAACGGTCCAGTCACCAAATTCATCAGTGCC
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AGCGTTGGAAGCCGAGGAAGCTCTGGCTCTTCCAGCAAACCAGCAGGAGCTGACTCTACACACAAAGTCC
CAGTGGTCATGCTGGAGCCAATTCGAATAAAACAAGAAAACAGTGGACCACCGGAAAATTATGATTTCCC
TGTTGTTATAGTGAAGCAAGAATCAGATGAAGAATCTAGGCCTCAAAATGCCAATTATCCAAGAAGCATA
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CTTTTCAAGACCCTGTTCCTCTAACTGTGCCTGATTATTACAAAATAATTAAAAATCCAATGGATTTGTC
AACCATCAAGAAAAGACTACAAGAAGATTATTCCATGTACTCAAAACCTGAAGATTTTGTAGCTGATTTT
AGATTGATCTTTCAAAACTGTGCTGAATTCAATGAGCCTGATTCAGAAGTAGCCAATGCTGGTATAAAAC
TTGAAAATTATTTTGAAGAACTTCTAAAGAACCTCTATCCAGAAAAAAGGTTTCCCAAACCAGAATTCAG
GAATGAATCAGAAGATAATAAATTTAGTGATGATTCAGATGATGACTTTGTACAGCCCCGGAAGAAACGC
CTCAAAAGCATTGAAGAACGCCAGTTGCTTAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

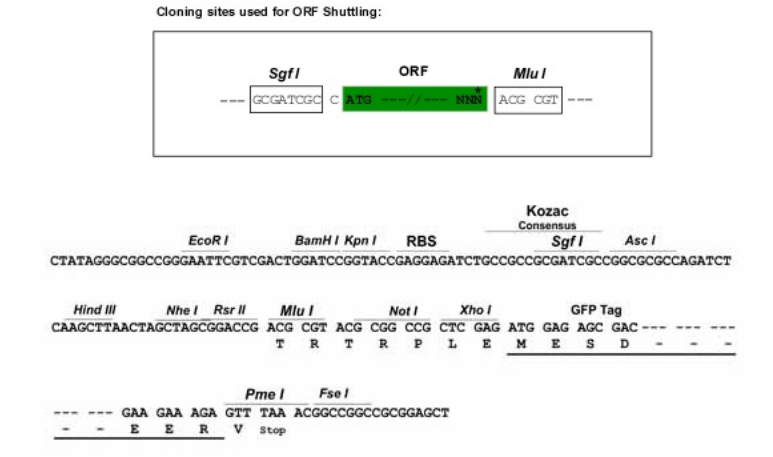
>RG218319 representing NM_003852
Red=Cloning site Green=Tags(s)

MKLMQQQQEVAGLSKQLEHVMHFSKWAVSSGSSTALLYSKRLITYRLRHLLRARCDASPVTNNTIQFHCD
PSFWAQNIINLGSLVIEDKESQPQMPKQNPVVEQNSQPPSGLSSNQLSKFPTQISLAQLRLQHMQQQVMA
QRQQVQRRPAPVGLPNPRMQGPIQQPSISHQQPPPRLINFQNHSPKPNGPVLPPHPQQLRYPPNQNIPRQ
AIKPNPLQMAFLAQQAIKQWQISSGQGTPSTTNSTSSTPSSPTITSAAGYDGKAFGSPMIDLSSPVGGSY
NLPSLPDIDCSSTIMLDNIVRKDTNIDHGQPRPPSNRTVQSPNSSVPSPGLAGPVTMTSVHPPIRSPSAS
SVGSRGSSGSSSKPAGADSTHKVPVVMLEPIRIKQENSGPPENYDFPVVIVKQESDEESRPQNANYPRSI
LTSLLLNSSQSSTSEETVLRSDAPDSTGDQPGLHQDNSSNGKSEWLDPSQKSPLHVGETRKEDDPNEDWC
AVCQNGGELLCCEKCPKVFHLSCHVPTLTNFPSGEWICTFCRDLSKPEVEYDCDAPSHNSEKKKTEGLVK
LTPIDKRKCERLLLFLYCHEMSLAFQDPVPLTVPDYYKIIKNPMDLSTIKKRLQEDYSMYSKPEDFVADF
RLIFQNCAEFNEPDSEVANAGIKLENYFEELLKNLYPEKRFPKPEFRNESEDNKFSDDSDDDFVQPRKKR
LKSIEERQLLK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003852

ORF Size: 2133 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_003852.3, NP_003843.3

RefSeq Size: 3905 bp

RefSeq ORF: 3051 bp

Locus ID: 8805

UniProt ID: O15164

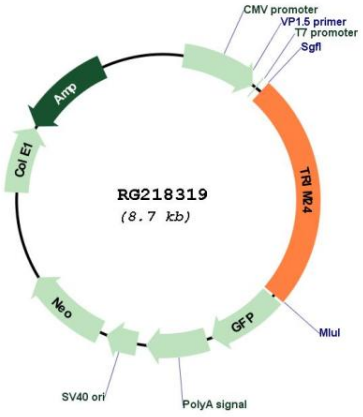
Cytogenetics: 7q33-q34

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]

Product images:



Circular map for RG218319