

## Product datasheet for **RG205332**

### TIF1 alpha (TRIM24) (NM\_015905) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TIF1 alpha (TRIM24) (NM_015905) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRIM24
Synonyms:	hTIF1; PTC6; RNF82; TF1A; TIF1; TIF1A; TIF1ALPHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205332 representing NM_015905 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGTGGCGGTGGAGAAGGCGGTGGCGGGCGGCGGAGCGGCCTCGGCTGCGGCCTCCGGGGGCCCT  
CGGCGGCGCCGAGCGGGGAGAACGAGGCCGAGAGTCGGCAGGGCCCGGACTCGGAGCGGGCGGCGGAGGC  
GGCCCGGCTCAACTGTTGGACACTTGCCTGTGCCACCAGAACATCCAGAGCCGGGCGCCCAAGCTG  
CTGCCCTGCTGACTCTTCTGCCAGCGCTGCCTGCCCGGCCCGAGCGCTACCTCATGCTGCCCGGC  
CCATGCTGGGCTCGGCCGAGACCCGCCACCCGTCCCTGCCCGGCTCGCCGGTCAGCGGCTCGTCGCC  
GTTCCGCCACCAAGTTGGAGTCATTGTTGCCAGTTTGCAGCCAAGAATGTGCAGAGAGACACATCATA  
GATAACTTTTTGTGAAGGACACTACTGAGTTCCAGCAGTACAGTAGAAAAGTCAAATCAGGTATGTA  
CAAGCTGTGAGGACAACGAGAAGCCAATGGGTTTTGTGTAGAGTGTGTTGAATGGCTCTGCAAGACGTG  
TATCAGAGCTCATCAGAGGGTAAAGTTCACAAAAGACCACACTGTGAGACAGAAAGAGGAAGTATCTCCA  
GAGGCAGTTGGTGTCCAGCCAGCGACCAGTGTGTTGTCCTTTTCATAAAAAGGAGCAGCTGAAGCTGT  
ACTGTGAGACATGTGACAACTGACATGTCGAGACTGTCAGTTGTTAGAACATAAAGAGCATAGATACCA  
ATTTATAGAAGAAGCTTTTCAGAAATCAGAAAGTATCATAGATACACTAATCACAAACTGATGGAAAA  
ACAAAATACATAAAATTCACAGGAAATCAGATCCAAAACAGAATTATTGAAGTAAATCAAATCAAAGC  
AGGTGGAACAGGATATTAAGTTGCTATATTTACACTGATGGTAGAAATAAATAAAAAGGAAAAGCTCT  
ACTGCATCAGTTAGAGAGCCTTGCAAAGGACCATCGCATGAAACTTATGCAACAACAACAGGAAAGTGGCT  
GGACTCTCTAAACAATTGGAGCATGTCATGCAATTTTCTAAATGGGAGTTTCCAGTGGCAGCAGTACAG  
CATTACTTTATAGCAAACGACTGATTACATACCGGTTACGACACCTCCTTCGTGCAAGGTGTGATGCATC  
CCCAGTGACCAACAACACCATCCAATTTCACTGTGATCCTAGTTTCTGGGCTCAAATATCATCAACTTA  
GGTTCTTTAGTAATCGAGGATAAAGAGAGCCAGCCACAAATGCCTAAGCAGAATCCTGTCGTGGAACAGA  
ATTCACAGCCACCAAGTGGTTTATCATCAAACAGTTATCCAAGTTCCCAACACAGATCAGCCTAGCTCA  
ATTACGGCTCCAGCATATGCAGCAACAGGTAATGGCTCAGAGGCAACAGGTGCAACGGAGGCCAGCACCT



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GTGGGTTTACAAACCCTAGAATGCAGGGGCCATCCAGCAACCTTCCATCTCTCATCAGCAACCGCCTC  
CACGTTTGATAAACTTTGAGAATCACAGCCCCAAACCAATGGACCAGTTCTTCCCTCCTCATCTCAACA  
ACTGAGATATCCACCAAAACCAGAACATACCACGACAAGCAATAAAGCCAAACCCCTACAGATGGCTTTC  
TTGGCTCAACAAGCCATAAAACAGTGGCAGATCAGCAGTGGACAGGGAACCCCATCAACTACCAACAGCA  
CATCCTCTACTCCTTCCAGCCCCACGATTACTAGTGCAGCAGGATATGATGGAAGGCTTTTGGTTCACC  
TATGACTGATTTGAGCTCACCAGTGGGAGGGTCTTATAATCTTCCCTCTTCCGGATATTGACTGTTCA  
AGTACTATTATGCTGGACAATATTGTGAGGAAAGATACTAATATAGATCATGGCCAGCAAGACCACCTC  
CAAACAGAACGGTCCAGTCAACAAATTCATCAGTGCCATCTCCAGGCCTTGCAGGACCTGTTACTATGAC  
TAGTGTACACCCCCAATACGTTACCTAGTGCCTCCAGCGTTGGAAGCCGAGGAAGCTCTGGCTCTTCC  
AGCAAACCAGCAGGAGCTGACTCTACACACAAAGTCCCAGTGGTCATGCTGGAGCCAATTCGAATAAAAC  
AAGAAAACAGTGGACCACCGGAAAATTATGATTTCCCTGTTGTTATAGTGAAGCAAGAATCAGATGAAGA  
ATCTAGGCCTCAAAATGCCAATTATCCAAGAAGCATACTCACCTCCCTGCTTAAATAGCAGTCAGAGC  
TCTACTTCTGAGGAGACTGTGCTAAGATCAGATGCCCTGATAGTACAGGAGATCAACCTGGACTTACC  
AGGACAATTCCTCAAATGAAAAGTCTGAATGGTTGGATCCTTCCAGAAGTCACTTTCATGTTGGAGA  
GACAAGGAAAGAGGATGACCCCAATGAGGACTGGTGTGCAGTTTGTCAAACGGAGGGGAACTCCTCTGC  
TGTGAAAAGTGCCCAAAGTATTCATCTTCTTGTGCATGTGCCACATTGACAAATTTTCCAAGTGGAG  
AGTGGATTTGCACCTTCTGCCGAGACTTATCTAAACCAGAAGTTGAATATGATTGTGATGCTCCAGTCA  
CAACTCAGAAAAAAGAAAAGTGAAGGCCTTGTTAAGTTAACACCTATAGATAAAAGGAAGTGTGAGCGC  
CTACTTTTATTTCTTACTGCCATGAAATGAGCCTGGCTTTTCAAGACCTGTTCTCTAACTGTGCCTG  
ATTATTACAAAATAATTAATAATCCAATGGATTTGTCAACCATCAAGAAAAGACTACAAGAAGATTATTC  
CATGTACTCAAACCTGAAGATTTGTAGCTGATTTTAGATTGATCTTCAAACCTGTGCTGAATTCAAT  
GAGCCTGATTAGAAGTAGCCAATGCTGGTATAAACTTGAAAATTATTTTGAAGAACTTCTAAAGAACC  
TCTATCCAGAAAAAGGTTTCCCAAACCGAATTCAGGAATGAATCAGAAGATAATAAATTTAGTGATGA  
TTCAGATGATGACTTTGTACAGCCCCGGAAGAAACGCCTCAAAGCATTGAAGAACCAGCTTGCCTAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG205332 representing NM\_015905  
Red=Cloning site Green=Tags(s)

MEVAVEKAVAAAAAASAAASGGPSAAPSGENEAESRQGPDSERGGEAARLNLDTCVCHQNIQSRAPKL  
LPLCHSFCQRCLPAPQRYLMLPAPMLGSAETPPPVPAPGSPVSGSSPFATQVGVIRCPVCSQECAERHII  
DNFFVKDTTEVPSSTVEKSNQVCTSCEDNAEANGFCVECEWELCKTCIRAHQRVKFTKDHTVRQKEEVSP  
EAVGVTSQRPFVCPFHKKEQLKLYCETCDKLCRDCQLLEHKEHRYQFIEEAFQNKQVIIDTLITKLMEK  
TKYIKFTGNQIQNRIIEVNQNKQVEQDIKVAIFITLMVEINKKGKALLHQLLESLAKDHRMMLMQQQEVA  
GLSKQLEHVMHFVSKWAVSSGSSTALLYSKRLITYRLRHLLRARCDASPVNTNTIQFHCDPSFWAQNIINL  
GSLVIEDKESQPQMPKQNPVVEQNSQPPSGLSSNQLSKFPTQISLAQLRLQHMQQVMAQRQVQRRPAP  
VGLPNPRMQGPIQQPSISHQPPPRLINFQNHSPKPNPVLPPHPQQLRYPPNQNIQRQAIPKNPLQMAF  
LAQQAIAKQWQISSGQGTPTTNTSSTPSSPTITSAAGYDGKAFGSPMIDLSSPVGGSYNLPSLPDIDCS  
STIMLDNIVRKDTNIDHGQPRPPSNRTVQSPNSSVPSPLAGPVMTSVHPPIRSPSASSVSGSRGSSGSS  
SKPAGADSTHKVPVVMLEPIRIKQENSGPPENYDFPVVIVKQESDEESRPQANANYPRISILTSLLNSSQS  
STSEETVLRSDAPDSTGDQPLHQDNSSNGKSEWLDPSQKSPHLVGETRKEEDPNEDWCAVCQNGGELLC  
CEKCPKVFHLSCHVPTLTNFPSEWICTFCRDLKPEVEYDCDAPSHNSEKKKTEGLVKLTPIDKRKCER  
LLLFLYCHEMSLAFQDPVPLTVPDYKIIKNPMDLSTIKKRLQEDYSMYSKPEDFVADFRILFQNCAEFN  
EPDSEVANAGIKLENYFEELLKNLYPEKRFKPEFRNESEDNKFSDSDDDFVQPRKKRLKSIERQLLK

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015905.2</a> , <a href="#">NP_056989.2</a>
<b>RefSeq Size:</b>	4007 bp
<b>RefSeq ORF:</b>	3153 bp
<b>Locus ID:</b>	8805
<b>UniProt ID:</b>	<a href="#">O15164</a>
<b>Cytogenetics:</b>	7q33-q34
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transcription Factors
<b>Gene Summary:</b>	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]