

Product datasheet for **RG214477**

Tin2 (TINF2) (NM_001099274) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tin2 (TINF2) (NM_001099274) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tin2
Synonyms:	DKCA3; TIN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214477 representing NM_001099274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCTACGCCCCTGGTGGCGGTCCCGCAGCTCTACGCTTCGCCCGCCGGCTAGCTGGCAGGTTGTGC
 GCGGACGCTGCGTGGAACATTTCCGCGAGTACTGGAGTTTCTGCGATCTCTGCGCGCTGTTGCCCTGG
 CTTGGTTCTGCTACCGGCACCAACGCCTTTGTATGGGCCTAAAGGCCAAGGTGGTGGAGCTGATC
 CTGCAGGGCCGGCCTTGGGCCAAGTCTGAAAGCCCTGAATCACCATTTCAGAATCTGGACCTATAG
 TCGGGGATCCCAAGGCTACAAAGCAGGATCTGAGGAAGATTTGGAGGCACAGGAACTTTTACCAGCA
 GGTGAAGCAGCTGTCAGAGGCTCCTGTGGATTTGGCCTCGAAGCTGCAGGAACCTGAACAAGAGTATGGG
 GAACCTTTCTGGCTGCCATGAAAAGCTGCTTTTGTAGTACTTGTGTCAGCTGGAGAAAGCACTGCCTA
 CACCGCAGGCACAGCAGCTTCAGGATGTGCTGAGTTGGATGCAGCCTGGAGTCTCTATCACCTCTTCTCT
 TGCCTGGAGACAATATGGTGTGGACATGGGGTGGCTGCTTCCAGAGTGTCTGTTACTGACTCAGTGAAC
 CTGGCTGAGCCCATGGAACAGAATCCTCCTCAGCAACAAAGACTAGCACTCCACAATCCCCTGCCAAAAG
 CCAAGCCTGGCACACATCTTCTCAGGGACCATCTTCAAGGACGCACCCAGAACCTCTAGCTGGCCGACA
 CTTCAATCTGGCCCTCTAGGCCGACGAAGAGTTCACTCCCAATGGGCCTCCACTAGGGGAGGCCATAAG
 GAGCGCCCCACAGTCATGCTGTTTCCCTTTAGGAATCTCGGCTCACCAACCCAGGTCATATCTAAGCCTG
 AGAGCAAGGAAGAATATGCGATATACACAGCAGACCTAGCCATGGGCACAAGAGCAGCCTCCACTGGGAA
 GTCTAAGAGTCCATGCCAGACCTGGGGGAAGGGCTCTGAAGGAGAACCAGTTGACTTGCTGCCACA
 GAGCAAAAGGAGAATTGCTTGGATTGCTACATGGACCCCTGAGACTATCATTATTACCTCCTAGGGCCA
 GGAAGCCAGTGTGCTCCTCGTCTGTGTCAGCTCCGTCAATACCATAGGGGACTTGGTTTACTGACTCTGA
 TGAGGAAGAAAATGGCCAGGGGGAAGGAAAGAAATCTCTGGAAAATATCAGAAGACAAAGTTTGACACC
 TTGATACCCACTCTGTGAATACCTACCCCTTCTGGCCACGGTGCCATACCTGTTTCTCCTGTGACT
 GTAGAGACAGTTCTAGACCTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

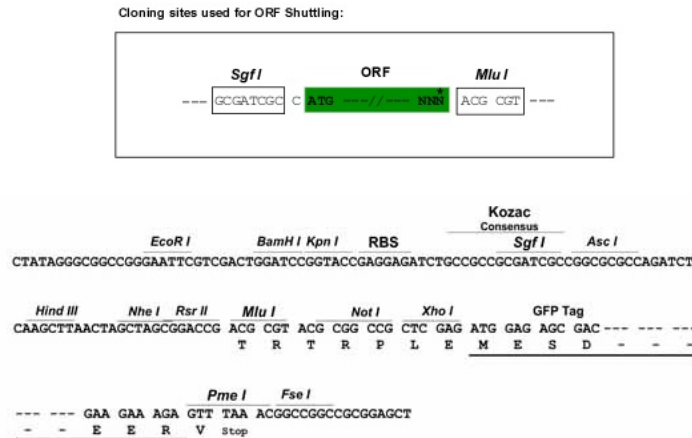
>RG214477 representing NM_001099274
 Red=Cloning site Green=Tags(s)

MATPLVAGPAALRFAAASWQVVRGRCVEHFPRVLEFLRSLRAVAPGLVRYRHHRLCMGLKAKVVVELI
 LQGRPWAQVLKALNHHFPESGPPIVRDPKATKQDLRKILEAQETFYQQVKQLSEAPVDLASKLQELEQYEG
 EPFLAAMEKLLFEYLCQLEKALPTPQAQQLQDVLQSWMPGVSTSSLAWRQYGVDMGWLLPECSVTDSVN
 LAEPMEQNPPQQRLALHNPLPKAKPGTHLPQGPSSRTHPEPLAGRHFNLAPLGRRRVQSQWASTRGGHK
 ERPTVMLFPFRNLGSPTQVISKPESEEHAITYADLAMGTRAASTGKSKSPCQTLGGRALKENPVDLPAT
 EQKENCLDCYMDPLRLSLLPPRARKPVCPPSLCSSVITIGDLVLDSDEEENGQGEKESLENYQKTKFDT
 LIPTLCEYLPSPGHGAIPVSSDCDRDSSRPL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001099274

ORF Size: 1353 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_001099274.3](#)

RefSeq Size: 1869 bp

RefSeq ORF: 1356 bp

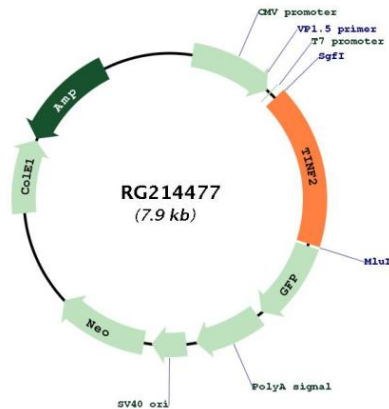
Locus ID: 26277

UniProt ID: [Q9BSI4](#)

Cytogenetics: 14q12

Gene Summary:

This gene encodes one of the proteins of the shelterin, or telosome, complex which protects telomeres by allowing the cell to distinguish between telomeres and regions of DNA damage. The protein encoded by this gene is a critical part of shelterin; it interacts with the three DNA-binding proteins of the shelterin complex, and it is important for assembly of the complex. Mutations in this gene cause dyskeratosis congenita (DKC), an inherited bone marrow failure syndrome. [provided by RefSeq, Mar 2010]

Product images:


Circular map for RG214477