

Product datasheet for **SC115364**

Tin2 (TINF2) (NM_012461) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tin2 (TINF2) (NM_012461) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tin2
Synonyms:	DKCA3; TIN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115364 sequence for NM_012461 edited (data generated by NextGen Sequencing)

```

ATGGCTACGCCCTGGTGGCGGGTCCCAGCTCTACGCTTCGCCCGCGGCTAGCTGG
CAGGTTGTGCGCGGACGCTGCGTGGAACATTTCCGCGAGTACTGGAGTTTCTGCGATCT
CTGCGCGCTGTTGCCCTGGCTTGGTTCGCTACCGGCACACGAACGCCTTTGTATGGGC
CTAAAGGCCAAGGTGGTGGAGCTGATCCTGCAGGGCCGCCTTGGGCCAAGTCTG
AAAGCCCTGAATCACCACCTTTCCAGAATCTGGACCTATAGTGCGGGATCCCAAGGCTACA
AAGCAGGATCTGAGGAAGATTTGGAGGCACAGGAACTTTTACCAGCAGGTGAAGCAG
CTGTGAGAGGCTCCTGTGGATTTGGCCTCGAAGCTGCAGGAACCTGAACAAGAGTATGGG
GAACCTTTCTGGCTGCCATGGAAAAGCTGCTTTTGGTACTTGTGTCAGCTGGAGAAA
GCACTGCCTACACCGCAGGCACAGCAGCTTCAGGATGTGCTGAGTTGGATGCAGCCTGGA
GTCTCTATCACCTCTTCTTGCCTGGAGACAATATGGTGTGGACATGGGGTGGCTGCTT
CCAGAGTGCTCTGTTACTGACTCAGTGAACCTGGCTGAGCCCATGGAACAGAATCCTCCT
CAGCAACAAGACTAGCACTCCACAATCCCCTGCCAAAAGCCAAGCCTGGCACACATCTT
CCTCAGGGACCATCTTCAAGGACGCACCCAGAACCTCTAGCTGGCCGACACTTCAATCTG
GCCCCTTAGGCCGACGAAGAGTTTCAGTCCCAATGGGCCCTCCACTAGGGGAGGCCATAAG
GAGCGCCCCACAGTCATGCTGTTCCCTTTAGGAATCTCGGCTCACCAACCCAGGTCATA
TCTAAGCCTGAGAGCAAGGAAGAATGCGATATACACAGCAGACCTAGCCATGGGCACA
AGAGCAGCCTCCACTGGGAAGTCTAAGAGTCCATGCCAGACCTGGGGGAAGGGCTCTG
AAGGAGAACCCAGTTGACTTGCTGCCACAGAGCAAAGGAGTGA

```

Clone variation with respect to NM_012461.2



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012461 unedited</p> <pre>GGGTTGCGNATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGCGGC GACGTTTAAAGCTGAGCGACCCAGTGCCACTGGAGACGGTCAGCTTCTCCACTCAGGCTC CTCCAGCCCGAGCCAGAAGACCCCTCCCCAGAATTCTGGGGCCGATGGAAGGGAGCC GAGTCAGATCGCGAGGTACCCAGAGCCGACAGACCCGAGCGACAGGGAGTTGCCAGAAGC CCCGCCCTAGGAGTGATCGGAAAGCCTCACCCATCCGGTGAGGAACCCGGAGGGACCG CCTCCGGCGGAGCCCGCCGACCATGGCTACGCCCTGGTGGCGGGTCCCGCAGCTCTAC GCTTCGCCGCGCGGCTAGCTGGCAGGTTGTGCGCGGACGCTGCGTGGAACATTTCCGC GAGTACTGGAGTTTCTGCGATCTCTGCGCGCTGTTGCCCTGGCTTGGTTCGCTACCGGC ACCACGAACGCCTTTGTATGGGCCTAAAGGCCAAGGTGGTGGAGCTGATCCTGCAGG GCCGCCCTGGGCCAAGTCTGAAAGCCCTGAATCACCACTTTCCAGAATCTGGACCTA TAGTGCGGGATCCCAAGGCTACAAAGCAGGATCTGAGGAAGATTTGGAGGCACAGGAAA CTTTTTACCAGCAGGTGAAGCAGCTGTCAGAGGCTCCTGTGGATTTGGCCTCGAAGCTGC AGGAACCTGAACAAGAGTATGGGAAACCCTTTCTGGCTGCCATGGAAGAGCTGCTTTTTG AGTACTTGTGTCAGCTGGAGAAGCACTGCCTACCCGACGACAGCAGCTTCAGGATGT GCTGAGTTGGATGCAGCCTGGAGTCTCTATCACCTCTTCTTGCCTGGNAGACATATGG TGTGGACATGGNNGTGGCTGCTTNCAGAGTGCTCTGTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012461 unedited</p> <pre>NTAACTCTGGACCGCGCCGAATCTANGATCGGTNTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTAAACAAATCCAAAGTTAATTATTAAGGATTACAAATATTTTTAGCAG GGTAGTTAGGCAATCCAAGCCTGGACTTCCACTTCACTTCTAACTACTTGCAGGAGC TGAGGAGGCAGGAAACTAAAGTACAGAGAGCATTCTAGTTCTATCACAAGGTCTAAAAC TGTCTCTACAGTACAGGAAAAACAGGTATGGCACCGGGGCCAAAAGGGGGTAGGTATT CACAGAGAGGGGGTATCAAGGGGGCAAACCTTTGTCTTCTGATAGTTTTCCAAAAATCCT GTAAAAAAGGGAGCAGGGAGAGCCTACTATCCGAAACCATTCCCTGAACCCTTTGAATTC TGAAGCATGGGGATTCTCAGGCTTGGTCTACCCATCCCCTTTCCAGCTTTCCGGCTCCT TCCCACTCCCCTTTCTTCCCCGGGCCATTTCTTCCCCTCAGAGTCCAAAACAAGGGC CCTTGGTAATCGCGGAACTCCCCAAACGGAGCCCGCTACGGGGGAACCCCGCCGTGGG GTTCCGCGCCGACGCGGACGACGCACTGTTTTATCCTCCGCCAACCCCTTGGCCAC TCTCTCCACGACGCGTGGTCCCTTTTCGAGGCTCCATGTCGTAATATCACTCCCCCACT TCATCTCGAGCCCCCCCCACTCCCCTCCTTTATCTTTCTCTCGGCTAGCGTTTCC CCCAGCTCCCGCCCCCGTCCCCATTCTCACCGCGCCTCCTCCCTCTCCCAACTTTTCC GCTCTCCCCCCCCCTCCCCACCCCGCCCCCTTACCCCCCCCTCTGTGTATCCCCCT CTCCCGACCCTGTTCTACATTCCTGATCCCTCACAAT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_012461
Insert Size:	2050 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_012461.1](#), [NP_036593.1](#)

RefSeq Size: 2095 bp

RefSeq ORF: 1065 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]

Transcript Variant: This variant (2) contains additional segments at its 3' end, which results in an early stop codon and a unique 3' UTR, compared to variant 1. It encodes isoform 2, also known as TIN2S, which has a shorter C-terminus when compared to isoform 1.