

## Product datasheet for **SC316524**

### Tin2 (TINF2) (NM\_001099274) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tin2 (TINF2) (NM_001099274) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tin2
Synonyms:	DKCA3; TIN2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001099274, the custom clone sequence may differ by one or more nucleotides ATGGCTACGCCCTGGTGGCGGGTCCCGCAGCTCTACGCTTCGCCGCCGGCTAGCTGG CAGGTTGTGCGCGGACGCTGCGTGAACATTTCCGCGAGTACTGGAGTTTCTGCGATCT CTGCGCGCTGTTGCCCTGGCTTGGTTCGCTACCGGCACCACGAACGCCTTTGTATGGGC CTAAAGGCCAAGGTGGTGGAGCTGATCCTGCAGGGCCGGCCTGGGCCCAAGTCCTG AAAGCCCTGAATCACCCTTTCCAGAATCTGGACCTATAGTGCGGGATCCCAAGGCTACA AAGCAGGATCTGAGGAAGATTTGGAGGCACAGGAACTTTTACCAGCAGGTGAAGCAG CTGTCAGAGGCTCCTGTGGATTTGGCCTCGAAGCTGCAGGAACCTGAACAAGAGTATGGG GAACCTTTCTGGCTGCCATGGAAAAGCTGCTTTTGGAGTACTTGTGTCAGCTGGAGAAA GCACTGCCTACACCGCAGGCACAGCAGCTTCAAGATGTGCTGAGTTGGATGCAGCCTGGA GTCTCTATCACCTCTTCTTGCCTGGAGACAATATGGTGTGGACATGGGGTGGCTGCTT CCAGAGTGCTCTGTTACTGACTCAGTGAACCTGGCTGAGCCCATGGAACAGAATCCTCCT CAGCAACAAGACTAGCACTCCACAATCCCCTGCCAAAAGCCAAGCCTGGCACACATCTT CCTCAGGGACCATCTTCAAGGACGCACCCAGAACCTCTAGCTGGCCGACACTTCAATCTG GCCCCCTAGGCCGACGAAGAGTTCAGTCCCAATGGGCCTCCACTAGGGGAGGCCATAAG GAGCGCCCCACAGTCATGCTGTTTCCCTTTAGGAATCTCGGCTACCAACCCAGGTCATA TCTAAGCCTGAGAGCAAGGAACAACATGCGATATACACAGCAGACCTAGCCATGGGCACA AGAGCAGCCTCCACTGGGAAGTCTAAGAGTCCATGCCAGACCCTGGGGGAAGGGCTCTG AAGGAGAACCAGTTGACTTGCCTGCCACAGAGCAAAAGGAGAATTGCTTGGATTGCTAC ATGGACCCCTGAGACTATCATTATTACCTCCTAGGGCCAGGAAGCCAGTGTGTCCTCCG TCTCTGTGCAGCTCCGTACCATAGGGGACTTGGTTTTAGACTCTGATGAGGAAGAA AATGGCCAGGGGAAGGAAAGGAATCTCTGGAAAATATCAGAAGACAAAGTTTGACACC TTGATACCCACTCTGTGAATACCTACCCCTTCTGGCCACGGTGCCATACCTGTTTCT TCCTGTGACTGTAGAGACAGTTCTAGACCTTTG
Restriction Sites:	Please inquire
ACCN:	NM_001099274



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u>NM_001099274.1, NP_001092744.1</u>
<b>RefSeq Size:</b>	1869 bp
<b>RefSeq ORF:</b>	1356 bp
<b>Locus ID:</b>	26277
<b>UniProt ID:</b>	<u>Q9BSI4</u>
<b>Cytogenetics:</b>	14q12
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1), also known as TIN2L.</p>