

## Product datasheet for **SC111344**

### TDP1 (NM\_018319) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TDP1 (NM_018319) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDP1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC111344 sequence for NM\_018319 edited (data generated by NextGen Sequencing)

```
ATGTCTCAGGAAGGCGATTATGGGAGGTGGACCATATCTAGTAGTGATGAAAGTGAGGAA
GAAAAGCCAAAACCAGACAAGCCATCTACCTCTTCTCTTCTGTGCCAGGCAAGGAGCA
GCAATGAGCCCAGGTACACCTGTTCCGAGGCCAGAAAGCTGCACACAAGAGGAAAATA
TCACCTGTGAAATTCAGCAATACAGATTCAAGTTTACCTCCAAAAGGCAGAAAAGCGGT
TCCCAGGAGGACCTCGGCTGGTGTCTGTCCAGCAGTGATGATGAGCTGCAACCAGAAATG
CCGCAGAAGCAGGCTGAGAAAAGTGGTGATCAAAAAGGAGAAAGACATCTCTGCTCCCAAT
GACGGCACTGCCAAAAGAACTGAAAATCATGGCGCTCCCGCTGCCACAGGCTCAAAGAG
GAGGAAGACGAGTATGAGACATCAGGGGAGGGCCAGGACATTTGGGACATGCTGGATAAA
GGGAACCCCTTCCAGTTTACCTCACTAGAGTCTCTGGAGTTAAGCCAAAGTATAACTCT
GGAGCCCTCCACATCAAGGATATTTTATCTCTTTATTTGGGACGCTTGTTCCTCAGCT
CAGTTTAACTACTGCTTTGACGTGGACTGGCTCGTAAAACAGTATCCACCAGAGTTCAGG
AAGAAGCCAATCCTGCTTGTGCATGGTGATAAGCGAGAGGCTAAGGCTCACCTCCATGCC
CAGGCCAAGCCTTACGAGAACATCTCTCTGCCAGGCAAGTTGGATATTGCGTTTGGAA
ACACACCACACGAAAATGATGCTGCTGCTATGAAGAAGGCCTCCGGGTTGTCATACAC
ACCTCCAACCTCATCCATGCTGACTGGCACCAGAAAACCAAGGAATATGGTTGAGCCCC
TTATACCCACGAATTGCTGATGGAACCCACAAATCTGGAGAGTCGCCAACACATTTTAA
GCTGATCTCATCAGTTACTTGTGGCTTATAATGCCCTTCTCTCAAGGAGTGGATAGAT
GTCATTCACAAGCAGCATCTCTGAAACAAATGTTTATCTTATTGGTTCAACCCAGGA
CGCTTTCAAGGAAGTCAAAAAGATAATTGGGGACATTTAGACTTAAGAAGCTTCTGAAA
GACCATGCCTCATCCATGCCTAACGCAGAGTCTGGCCTGTCGTAGGTCAGTTTTCAAGC
GTTGGCTCCTTGGGAGCCGATGAATCAAAGTGGTTATGTTCTGAGTTTAAAGAGAGCATG
CTGACACTGGGGAAGGAAAGCAAGACTCCAGGAAAAGCTCTGTTCTCTTTACTTGATC
TATCCTTCTGTGGAAAATGTGCGGACCAGTTTAGAAGGATATCCTGCTGGGGCTCTCTT
CCCTATAGCATCCAGACAGCTGAAAAACAGAATTGGCTGCATTCTATTTTACAAAATGG
TCAGCTGAGACTTCTGGCCGAGCAATGCCATGCCACATATTAAGACATATATGAGGCCT
TCTCCAGACTTCAAGTAAATGCTTGGTTCCTTGTCAAGCGCAAACTGTCCAAGGCT
GCCTGGGAGCATTGGAGAAGAATGGCACCCAGCTGATGATCCGCTCCTACGAGCTCGGG
GTCCTTTTCTCCCTTCAAGTAAATGCTTGGTCTAGACAGTTTCAAAGTAAAACAGAAGTTCTT
GCTGGCAGCCAGGAGCAATGGCCACCTTCTCTGTGCCATATGATTTGCCTCCAGAAGT
TATGGAAGTAAAGATCGGCCATGGATATGGAACATTCCTTATGTCAAAGCACCGGATACG
CATGGGAACATGTGGGTGCCCTCTGA
```

Clone variation with respect to NM\_018319.3

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_018319 unedited</p> <pre> NGGGTCACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCGAGGCA AGCGTTGGTTCTGTGCGCCTCAGGAGTATAATGTCTCAGGAAGGCGATTATGGGAGGTGG ACCATATCTAGTAGTGATGAAAGTGAGGAAGAAAAGCCAAAACCAGACAAGCCATCTACC TCTTCTCTCTGTGCCAGGCAAGGAGCAGCAATGAGCCCAGGTACACCTGTTCCGAG GCCCAGAAAGCTGCACACAAGAGGAAAAATCACCTGTGAAATTCAGCAATACAGATTCA GTTTTACCTCCCAAAGGCAGAAAAGCGGTTCCAGGAGGACCTCGGCTGGTGTCTGTCC AGCAGTGATGATGAGCTGCAACCAGAAATGCCGAGAAGCAGGCTGAGAAAAGTGGTGATC AAAAAGGAGAAAAGACATCTCTGCTCCCAATGACGGCACTGCCCAAAGAACTGAAAATCAT GGCGCTCCCGCTGCCACAGGCTCAAAGAGGAGGAAGACGAGTATGAGACATCAGGGGAG GGCCAGGACATTTGGGACATGCTGGATAAAGGGAACCCCTTCCAGTTTTACCTACTAGA GTCTCTGGAGTTAAGCCAAAGTAACTCTGGAGCCCTCCACATCAAGGATATTTTATCT CCTTTATTTGGGACGCTTGTCTTTCAGCTCAGTTTAACTACTGCTTTGACGTGGACTGG CTCGTAAAACAGTATCCACCAGAGTTCANGAAGAAGCCAATCCTGCTTGTGCATGGTGAT AAGCGAGAGGCTAAGGCTCACCTNCATGCCCCAGCCAAGCCTTACGAGAACATCTCTCTC TGCCAGNCAAAGNTGGGATATTGCGTTNGGAACACACCACGAAAATGATGCTGCTGCT CTATGAAAANGGCTCNCGGNNTGCATACACACCTNNCAACTCATNCATGC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_018319 unedited</p> <pre> AAATAGGGTTNCGATTCTTTTTAAAAAGACAGACACACAAAATACATACAACACCCCA TAAATGTCCTTTACAGAATCCCAGTATGTACAACAGATACAGCAGAGCCTGTCTGTTGGA AGGTGGGAGGCCCTGCAGCCCTGTCTCCCTGCCTCCTGCTCTATGCCACACCCCACTG CAGCCTACAAGGTTCTAAGTACTTTTTGAAAATCCTAGGCCTCTGAGGAACAGTTTGA AAGACTACTTTAGAAAATCTTCAAGACTAACGTTCAACTCTATCCTAAATTATAAGATA AAGAGGTTGATGACAACTGGAAATCAGCCTCATGCAGAAGAAAACAAACAGGGTCTAAA GCACCCTAGGGAGAACACAATGTACACAAAGCACAAGACACTCAAGCTCTGAGCCCCGC TCACTGTGTGACCCTGGGGACATCCTTAACTTCTAGGCCTTAGCTTCTCACTTGTGAA TTTAAGGCATCAAATTAAGTCACCTTTTAGGATTTTTCCCAAAATACTTGTGTGCTTTT GTATGTTTCTATGAGCTGCTTCTCTGAAAGTTTCTGGGATAGAAGAGACACCCATTTA CCCTAAGCAGGTGTTTGGGTTTGGTGGGACCTGTCTGTGACAGTGAGGCAGCCAGCATG GTGCCCGGAGAGATGAGAAAACCTCCTAAAAGCTAAGCTGAAAGCTATGAAAAGCCGCTG TGAGGACAGTCAATACAATCTTAACTGCAGGGGCTGAAAACAAGCCATTGGTCTCAAAG ACAGATCCCTAGATTACCTCCAGCACCCAGAAAACCTTACTTCAAAAACCTTAAAGAAG GCATCCGTGAAAAAGAAAAGATCGTGTTCTTACCGGAAAAAATTTCTGCGGGCAAGAAA </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018319
<b>Insert Size:</b>	3780 bp
<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>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).

**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\\_018319.3](#), [NP\\_060789.2](#)

**RefSeq Size:** 3763 bp

**RefSeq ORF:** 1827 bp

**Locus ID:** 55775

**UniProt ID:** [Q9NUW8](#)

**Cytogenetics:** 14q32.11

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene is involved in repairing stalled topoisomerase I-DNA complexes by catalyzing the hydrolysis of the phosphodiester bond between the tyrosine residue of topoisomerase I and the 3-prime phosphate of DNA. This protein may also remove glycolate from single-stranded DNA containing 3-prime phosphoglycolate, suggesting a role in repair of free-radical mediated DNA double-strand breaks. This gene is a member of the phospholipase D family and contains two PLD phosphodiesterase domains. Mutations in this gene are associated with the disease spinocerebellar ataxia with axonal neuropathy (SCAN1). [provided by RefSeq, Aug 2016]  
Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1 and 2 encode the same isoform.