

## Product datasheet for **RC201888**

### **TDP1 (NM\_001008744) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TDP1 (NM_001008744) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TDP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC201888 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCAGGAAGGCGATTATGGGAGTGGACCATATCTAGTAGTGATGAAAGTGAGGAAGAAAAGCCAA  
 AACAGACAAGCCATCTACCTCTTCTCTCTGTGCCAGGCAAGGAGCAGCAAATGAGCCAGGTACAC  
 CTGTTCCGAGGCCAGAAAAGCTGCACACAAGAGAAAATACACCTGTGAAATTCAGCAATACAGATTCA  
 GTTTTACCTCCAAAAGGCAGAAAAGCGGTTCCAGGAGGACCTCGGCTGGTGTCTGTCCAGCAGTGATG  
 ATGAGCTGCAACAGAAAATGCCGAGAAGCAGGCTGAGAAAAGTGGTGATCAAAAAGGAGAAAAGACATCTC  
 TGCTCCCAATGACGGCACTGCCAAAGAACTGAAAATCATGGCGCTCCCGCTGCCACAGGCTCAAAGAG  
 GAGGAAGACGAGTATGAGACATCAGGGGAGGGCCAGGACATTTGGGACATGCTGGATAAAGGGAACCCCT  
 TCCAGTTTACCTCACTAGAGTCTCTGGAGTTAAGCCAAAGTAACTCTGGAGCCCTCCACATCAAGGA  
 TATTTTATCTCCTTTATTTGGGACGCTTGTTCCTCAGCTCAGTTTAACTACTGCTTTGAGCTGGACTGG  
 CTGTA AAAACAGTATCCACCAGAGTT CAGGAAGAAGCCAATCCTGCTTGTGCATGGTGATAAGCGAGAGG  
 CTAAGGCTCACCTCCATGCCAGGCCAAGCCTTACGAGAACATCTCTCTGCCAGGCAAAGTTGGATAT  
 TGCGTTTGGAAACACACCACGAAAATGATGCTGCTGCTATGAAGAAGGCTCCGGTGTGCATACAC  
 ACCTCCAACCTCATCCATGCTGACTGGCACCAGAAAATCAAGGAATATGGTTGAGCCCTTATACCCAC  
 GAATTGCTGATGGAACCCACAAAATCTGGAGAGTCGCCAACACATTTTAAAGCTGATCTCATCAGTTACTT  
 GATGGCTTATAATGCCCTTCTCTCAAGGAGTGGATAGATGTCATTACAAGCAGCATCTCTCTGAAACA  
 AATGTTTATCTTATTGGTTCAACCCAGGACGCTTCAAGGAAGTCAAAAAGATAAATGGGACATTTTA  
 GACTTAAAGAAGCTTCTGAAAGACCATGCCTCATCCATGCCTAACGCAGAGTCTGCCTGCTGATAGTCA  
 GTTTTCAAGCGTTGGCTCCTTGGGAGCCGATGAATCAAAGTGGTTATGTTCTGAGTTTAAAGAGAGCATG  
 CTGACACTGGGAAGGAAAGCAAGACTCCAGGAAAAGCTCTGTTCTCTTTACTTGATCTATCCTTCTG  
 TGGAAAATGTGCGGACCAGTTTAGAAGGATATCCTGCTGGGGCTCTCTCCCTATAGCATCCAGACAGC  
 TGAAAAACAGAATTGGCTGCATTCTATTTTACAAAATGGTCAGCTGAGACTTCTGGCCGACGAATGCC  
 ATGCCACATATTAAGACATATATGAGGCCTTCTCCAGACTTCAGTAAAATGCTTGGTTCCTTGTACAA  
 GCGCAAATCTGTCCAAGGCTGCCTGGGAGCATTGGAGAAGAATGGCACCAGCTGATGATCCGCTCCTA  
 CGAGCTCGGGTCTTTTCTCCCTT CAGCATTGGTCTAGACAGTTTCAAAGTAAACAGAAGTTCTTC  
 GCTGGCAGCCAGGAGCCAATGGCCACCTTCTGTGCCATATGATTTGCCTCCAGAACTGTATGGAAGTA  
 AAGATCGCCATGGATATGGAACATTCTTATGTCAAAGCACCGGATACGCATGGGAACATGTGGGTGCC  
 CTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201888 protein sequence  
 Red=Cloning site Green=Tags(s)

MSQEGDYGRWTISSSDESEEEKPKPDKPSTSSLLCARQGAANEPRYTCSEAQKAAHKRKISPVKFSNTDS  
 VLPPKRQKSGSQEDL GWCLSSSDELQPEMPQKQAEKVVIKKEKDISAPNDGTAQR TENHGAPACHRLKE  
 EEDEYETSGEGQDIWMLDKGNPFQFYLRVSGVKPKYNSGALHIKDILSPLFGTLVSSAQFNFCFDVDW  
 LVKQYPPEFRKKPILLVHGDKREAKAHLHAQAKPYENISLQAKLDIAFGTHHTKMMLLLYEEGLRVVIH  
 TSNLIHADWHQKTQGIWLSPLYPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWIDVIHKHDLSET  
 NVVYLIGSTPGRFQGSQKDNWGHFRLKLLKDHASSMPNAESWPVVGQFSSVGLGADESKWLCSEFKESM  
 LTLGKESKTPGKSSVPLYLIYPSVENVRTSLEGPAGGSLPYSIQTAEKQNLHSHYFHKWSAETSGRSNA  
 MPHIKTYMRPSPDFSKIAWFLVTSANLSKAAWGALEKNGTQLMIRSYELGVLFLPSAFGLDSFKVKQKFF  
 AGSQEPMATFPVPYDLPEL YGSKDRPW IWNIPYVKAPDTHGNMWVPS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6249\\_h03.zip](https://cdn.origene.com/chromatograms/mk6249_h03.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001008744

ORF Size: 1824 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\\_001008744.2](#)

RefSeq Size: 3540 bp

RefSeq ORF: 1827 bp

Locus ID: 55775

UniProt ID: [Q9NUW8](#)

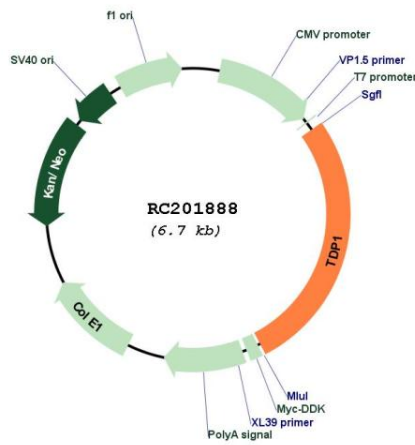
**Cytogenetics:** 14q32.11

**Protein Families:** Druggable Genome

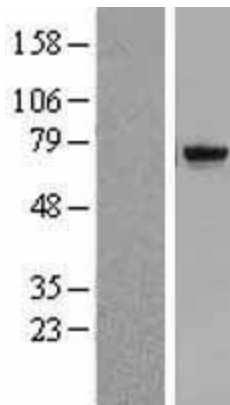
**MW:** 68.4 kDa

**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]

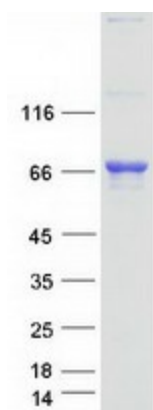
**Product images:**



Circular map for RC201888



Western blot validation of overexpression lysate (Cat# [LY413162]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC214927] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TDP1 protein (Cat# [TP301888]). The protein was produced from HEK293T cells transfected with TDP1 cDNA clone (Cat# RC201888) using MegaTran 2.0 (Cat# [TT210002]).