

Product datasheet for **RN211578**

Tdp1 (NM_001031657) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tdp1 (NM_001031657) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tdp1
Synonyms:	MGC112732
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN211578 representing NM_001031657
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCAGGAAAGCAGCTACGGAAAGTGGACAATATCCAGTAGTGACGACAGCGAGGATGAAAAGCCCA
 AACCTGTCAAACCATCAACATCCTCTGGCCCCAGGCTGGGCAGGGAGTGTGAAGGAGCCACGTACAC
 CTGCTCAGAGGCCCGCAAGGCTGCACACAGAGACAGATCTCACCTGTGAAATCAACAACACAGACTCC
 GTGTTACCCACAGAAGCAGAAGATGGATTCCCCGGAAGGTCTGGGCTGGTGTCTGTCCAGCAGCGATG
 ATGAGCAGCAGCCGGATGTGACACAGCAGGAGCAGCCTAAGGGAGTGCCACCTCAAGAGAAAAAATATGC
 CCCCTCAGCCAATGTGACTACTGCCAGAAAGTTGAGGATCGAAGCCCTCCTGACAGCCATAGGGCCCAA
 AGGGCAGACGAAGAGTACGAGACCTCAGGGGAAGGCCAGGACATCTGGGACATGTGGATAAGGAGAACC
 CCTTCCAGTTTTATCTCACTAGAGTCTCGGGGATTAAGGCAAAGTACAACCTCAAAGCCCTCCACATCAA
 GGATTTTTATCCCCTCTGTTTGGGACACTTGTCTCTTCAGCTCAGTTTAACTACTGCTTTGATGTGAAC
 TGGCTCATAAAGCAATATCCACCAGAATTCAGGAAGAAGCCGATCCTGCTTGTGCACGGCGATAAGAGGG
 AAGCCAAGGCAGACTTGCATGCCAGGCCAAGCCCTATGCAAACATTTCCCTCTGCCAGGCAAAGTTGGA
 TATTGCATTTGGAACACACCACAGAAAATGATGCTCTTGCTCTATGAAGAAGGCCCTCCGAGTCGTCATC
 CACACCTCCAACCTCATCCGGGAAGACTGGCACCAGAAAACCCAAAGGAATATGGTTGAGCCCTTTGTACC
 CACGAATTTACCAGGGAACACACATCCGGAGAGTCAAGCACCCATTTCAAAGCGGACCTCACCAGTTA
 TTTGATGGCGTAAATGCCCCCTCTCCAGGAATGGATAGACATCATCCAAGAACACGATCTCTCTGAA
 ACCAATGTTTACCTTATGGTTCAACCCCTGGACGCTTTCAAGGAAGTCAAAAGATAATTGGGGACATT
 TTAGACTTAGAAAAGCTTCTGCAGGCGCATGCCCATCTGCACCCAGGGGCGAGTGTGGCCGCTGTGGG
 TCAGTTTTCAAGCATTGGCTCCCTGGGGCCTGATGAATCCAAGTGGTTGTGCTCAGAGTTTAAAGAGAGC
 TTGCTGGCAGTGAGAGGAAGGCCGACCCCGGCAGAAAGCGCAGTTCCCTCTTCACTGATCTATCCCT
 CTGTGGAAAATGTGCGGACCAGCTTAGAAGGATATCCTGCTGGGGCTCTCTTCCCTATGGCATCCAGAC
 GGCTGAGAAAACAGAGGTGGCTGCACCCCTACTTCCACAAGTGGTCCAGCAGAGACATCCGGCCGAAGCAAT
 GCCATGCCACATATTAAGACGTACATGAGGCCCTCACCAGACTTCAGTAAACTGGCTTGGTTCTTGTCA
 CAAGTGCAATCTGTCCAAGGCTGCCTGGGAGCACTGGAGAAGAACGGCGCTCAACTGATGATCCGCTC
 CTATGAGCTGGGGTCTTTTCTCCCGTGGCCTTTGGCCTGGACACCTTCAAAGTGAACAGAAATTC
 TTCTCCAGCAGCAGTGAAGCAATGGCCTCTTTCTGTGCCCTATGACCTGCCCCAGAGCTCTACGGGA
 GTAAAGATCGGCCATGGATTTGGAACATTCCTATGTCAAAGCACAGACACATGGCAACATGTGGGT
 GCCTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001031657

Insert Size: 1830 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_001031657.1](#), [NP_001026827.1](#)

RefSeq Size: 2096 bp

RefSeq ORF: 1830 bp

Locus ID: 314380

UniProt ID: [Q4G056](#)

Cytogenetics: 6q32

Gene Summary: DNA repair enzyme that can remove a variety of covalent adducts from DNA through hydrolysis of a 3'-phosphodiester bond, giving rise to DNA with a free 3' phosphate. Catalyzes the hydrolysis of dead-end complexes between DNA and the topoisomerase I active site tyrosine residue. Hydrolyzes 3'-phosphoglycolates on protruding 3' ends on DNA double-strand breaks due to DNA damage by radiation and free radicals. Acts on blunt-ended double-strand DNA breaks and on single-stranded DNA. Has low 3'exonuclease activity and can remove a single nucleoside from the 3'end of DNA and RNA molecules with 3'hydroxyl groups. Has no exonuclease activity towards DNA or RNA with a 3'phosphate (By similarity). [UniProtKB/Swiss-Prot Function]