

# Product datasheet for RC214927L1

## TDP1 (NM\_018319) Human Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids					
Product Name:	TDP1 (NM_018319) Human Tagged Lenti ORF Clone					
Tag:	Myc-DDK					
Symbol:	TDP1					
Mammalian Cell Selection:	None					
Vector:	pLenti-C-Myc-DDK (PS100064)					
E. coli Selection:	Chloramphenicol (34 ug/mL)					
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214927).					
<b>Restriction Sites:</b>	Sgfl-Mlul					
Cloning Scheme:						
		Cloning si	tes used for ORF Sh	uttling:		
			Sgf I GCG ATC GCC ATG	ORF ;// nnŇ	Mlu I ACG CGT	
					Kozak Consensus	
	CTATA C C C C C C C	EcoR I	BamH I	RBS	Sgf I	ORF
	CIAIAGGGCGGC	COGGAAIICGIC	GACIGGAILLGGIA	CCGAGGAGAGAICI	IGCCGCCGCGATCGC C	

 Mlu I
 Not I
 Xho I
 Myc.Tag

 ACG CGT ACG CGG CCG CCG CCC GAG AAA CTC ATC TCA GAA GAG
 T
 R
 P
 L
 L
 L
 I
 S
 E
 E

 DDK.Tag
 DDK.Tag
 DDK.Tag
 DDK.Tag
 DDK.Tag
 DDK.Tag
 DDK.Tag

GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC D L A A N D I L D Y K D D D K V Stop

\* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM\_018319 1824 bp



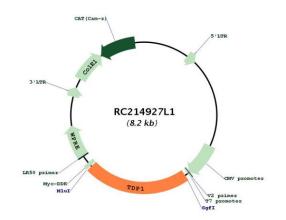
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ORIGENE TDP1 (I	NM_018319) Human Tagged Lenti ORF Clone – RC214927L1
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene 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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 018319.3</u>
RefSeq Size:	3763 bp
RefSeq ORF:	1827 bp
Locus ID:	55775
UniProt ID:	<u>Q9NUW8</u>
Cytogenetics:	14q32.11
Protein Families:	Druggable Genome
MW:	68.2 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)

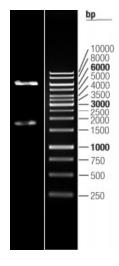
gene are associated with the disease spinocerebellar ataxia with axonal neuropathy (SCAN1). [provided by RefSeq, Aug 2016]

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# **Product images:**



Circular map for RC214927L1



Double digestion of RC214927L1 using Sgfl and Mlul

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