

## Product datasheet for **SC306958**

### PDILT (NM\_174924) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDILT (NM_174924) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDILT
Synonyms:	PDIA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_174924 edited  
 GCCTCTGTGTGCCAGGAAGGGACTTCATTTCTGCCTGTGGATTCTTTAGAAATGCCAGT  
 CGTCTGCGGGTCTGCCCTGATCACAAGGAGAAGCCAGGAGCCTCCTCTTCAGGCTACAA  
 CCTTCCTTCTTAAGGGCCACAGAGTTTGTGGCCCCACCCACAGCACAGCCCCACCTTGGC  
 CCCAGGAACCCCTGGGAGTGGCCTTGGCTTCTGCAGGACAGCCATGGACCTACTCTGGAT  
 GCCCTGCTGCTGGTGGCCGCTTGTGTCTCTGCTGTCCACAGCTACCAGAGGTTAACGC  
 CGGTGTTCCAGCATCCACATAACCAAGCCTGTGCACATCCTGGAGGAACGCAGTCTCCT  
 AGTGCTAACGCCCGCTGGCCTGACCCAGATGCTGAACCAGACCCGCTTCCTCATGGTGCT  
 TTTCCACAACCCATCCTCAAAGCAATCCAGGAACCTGGCGGAAGAGCTGGGCAAAGCTGT  
 GGAGATCATGGGCAAAGGCAAGAATGGGATCGGCTTTGGCAAAGTGGACATTACCATAGA  
 GAAGGAGCTTCAGCAGGAGTTTGGGATTACCAAGGCCCGGAGTTGAAGCTGTTTTTTGA  
 GGGCAACAGGTCAGAGCCATCAGCTGCAAAGGAGTGGTTGAATCTGCTGCCTTAGTCGT  
 TTGTTGAGACGACAAATTAGCCAGAAAGCATTTTTGTCAACAGCAGCGAGCAGGTGGC  
 AGAGTTTGTGATATCCAGGCCCTTGGTCATCGTTGGCTTCTCCAGGATTTAGAGGAAGA  
 AGTAGCAGAGTTGTTCTATGATGTGATCAAAGACTTTCCAGAGCTAACGTTTGGAGTCAT  
 AACGATTGGCAATGTCTATTGGGCGTTTCCACGTACCCTTGACAGCGTCTGGTGTTCAA  
 AAAGGGAAAAATTGTGAACCGCCAAAAGCTTATTAATGACAGTACCAACAAACAGGAACT  
 CAATCGTGTCAAAAACAGCACCTTACAGATTTTGTGATCGAATACAACACTGAGAATAA  
 GGATCTGATTTCCGAGTTGCACATCATGAGTCACATGCTGCTGTTTGTCTCCAAAAGCTC  
 CGAGTCATATGGTATCATAATTCAGCATTATAAGCTGGCATCAAAGGAATTCAAAAACAA  
 GATCCTTTTATCCTTGTGGATGCAGACGAACCCAGAAATGGACGTGTCTCAAGTACTT  
 CCGGGTCACAGAGGTCGATATCCCATCCGTCCAATCCTAAACTTGAGCTCTGACGCCAG  
 GTACAAAATGCCCTCAGATGACATAACCTACGAAAGCCTCAAGAAATTTGGCCGACGTT  
 CCTGAGTAAAAATGCCACAAAACATCAATCCAGTGAAGAGATTCCAAAATACTGGGACCA  
 GGGACTGGTTAAGCAGCTCGTGGGGAAGAACTTCAACGTAGTCGTCTTTGACAAAGAAAA  
 GGACGTATTTGTGATGTTCTATGCACCCTGGTCTAAAAAGTGAAGATGCTGTTCCCACT  
 GTTGGAGGAATTGGGCAGAAAATATCAAAACCACTCCACAATTATCATTGCCAAGATCGA  
 TGTACAGCAAATGACATTCAGCTGATGTACCTGGACCGGTACCCATTCTCAGGCTGTT  
 CCCCAGCGGCTCTCAACAAGCTGTCTGTATAAGGGAGAACACACCCTGAAGGGCTTCTC  
 TGACTTCTGAAAGCCACATCAAACTAAGATTGAGGATGAGGATGAGCTGTTGTCTGT  
 TGAGCAAAATGAAGTGATAGAAGAGGAAGTGTAGCTGAGGAAAAGGAGGTGCCTATGAT  
 GAGGAAAAGGGTTACCTGAACAGCAGTCGCTGAGCTGGAGAACATGACCAAGTACGTATC  
 CAAGCTGGAAGAGCCCGCTGGGAAGAAGAAAACATCTGAGGAGGTGGTGGTGGTGGC  
 TAAGCCAAAGGGACCTCCAGTGCAAAAAGAAACCAAAAGTCAAGGAAGAACTTTAGCT  
 TCTCCAATACCAGGAAAAAGATGCTTATTTTCCAGATCCTGGCATATTTTCTGAATGG  
 ATTGATCCAATAAAAAGCATATATCATTGTGGTAGGGTAGGTGGGGCGGGGTAGGGGTG  
 GATAATAAAGCCTCTGAGTGTCTTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_174924  
**Insert Size:** 2200 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).

<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>	<a href="#">NM_174924.1</a> , <a href="#">NP_777584.1</a>
<b>RefSeq Size:</b>	2195 bp
<b>RefSeq ORF:</b>	1755 bp
<b>Locus ID:</b>	204474
<b>UniProt ID:</b>	<a href="#">Q8N807</a>
<b>Cytogenetics:</b>	16p12.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, two thioredoxin (TRX) domains with non-classical Ser-Lys-Gln-Ser and Ser-Lys-Lys-Cys motifs, respectively, two TRX-like domains, and a C-terminal ER-retention sequence. The protein lacks oxidoreductase activity in vitro and probably functions as a chaperone. This gene's expression appears to be limited to the testis. [provided by RefSeq, Dec 2016]