

Product datasheet for **RC206717**

PDILT (NM_174924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDILT (NM_174924) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDILT
Synonyms:	PDIA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206717 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGACCTACTCTGGATGCCCTGCTGCTGGTGGCCGCTTGTGTCTCTGCTGTCCACAGCTCACCAGAGG
 TTAACGCCGGTGTTCAGCATCCACATAACCAAGCCTGTGCACATCCTGGAGGAACGCAGTCTCCTAGT
 GCTAACGCCCGCTGGCCTGACCCAGATGCTGAACCAGACCCGCTTCTCATGGTGTCTTCCACAACCCA
 TCCTCAAAGCAATCCAGGAACCTGGCGAAGAGCTGGGCAAAGCTGTGGAGATCATGGGCAAAGGCAAGA
 ATGGGATCGGCTTTGGCAAAGTGGACATTACCATAGAGAAGGAGCTTCCAGCAGGAGTTGGGATTACCAA
 GGCCCCGAGTTGAAGCTGTCTTTGAGGGCAACAGGTCAGAGCCCATCAGCTGCAAAGGAGTGGTTGAA
 TCTGCTGCCTTAGTCGTTGGTTGAGACGACAAATAGCCAGAAAGCATTTTTGTCAACAGCAGCGAGC
 AGGTGGCAGAGTTGTGATATCCAGGCCCTGGTCATCGTTGGCTTCTCCAGGATTTAGAGGAAGAAGT
 AGCAGAGTTGTTCTATGATGTGATCAAAGACTTCCAGAGCTAACGTTTGGAGTCATAACGATTGGCAAT
 GTATTGGGCGTTCCACGTACCCCTTGACAGCGTCTGGTGTTCAAAAAGGGAAAAATTTGAACCGCC
 AAAAGCTTATAATGACAGTACCAACAAACAGGAACCTCAATCGTGTCAAAAACAGCACCTTACAGATTT
 TGTGATCGAATACAACACTGAGAATAAGGATCTGATTTCCGAGTTGCACATCATGAGTCACATGCTGCTG
 TTTGTCTCAAAAAGCTCCGAGTCATATGGTATCATAATTCAGCATTATAAGCTGGCATCAAAGGAATTCC
 AAAACAAGATCCTTTTCACTCTGTGGATGCAGACGAACCCAGAAATGGACGTGTCTTCAAGTACTTCCG
 GGTACAGAGGTCGATATCCCATCCGTCCAAATCCTAACTTGAGCTCTGACGCCAGGTACAAAAATGCCT
 TCAGATGACATAACCTACGAAAGCCTCAAGAAATTTGGCCGACGTTCTGAGTAAAAATGCCAAAAAC
 ATCAATCCAGTGAAGAGATTCCAAAATACTGGGACCAGGACTGGTTAAGCAGCTCGTGGGGAAGAACTT
 CAACGTAGTCGTTTGGACAAAGAAAAGGACGTATTTGTGATGTTCTATGCACCCTGGTCTAAAAAGTGC
 AAGATGCTGTTCCCACTGTTGGAGGAATTGGGCAGAAAAATCAAAAACCACTCCACAATTATCATTGCCA
 AGATCGATGTCACAGCAAATGACATTGAGTGTACCTGGACCGGTACCCATTCTTCCAGGCTGTTCCC
 CAGCGGCTCTCAACAAGCTGCTCTGTATAAGGGAGAACACACCCTGAAGGGCTTCTGACTTCTGGAA
 AGCCACATCAAACTAAGATTGAGGATGAGGATGAGCTGTTGTCTGTTGAGCAAAATGAAGTATAGAAG
 AGGAAGTCTAGCTGAGGAAAAGGAGGTGCCTATGATGAGGAAAGGGTTACCTGAACAGCAGTCCGCTGA
 GCTGGAGAACATGACCAAGTACGTATCCAAGCTGGAAGAGCCCGCTGGGAAGAAGAAAACATCTGAGGAG
 GTGGTGGTGGTGGCTAAGCCAAAGGACCTCCAGTCAAAAAGAAGAAAACAAAAGTCAAGGAAGAAC
 TT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206717 protein sequence
 Red=Cloning site Green=Tags(s)

MDLLWMPLLLVAACVSAVHSSPEVNAVGVSSIHITKPVHILEERSLLVLTAPGLTQMLNQTRFLMVLFHNP
 SSKQSRNLAEELGKAVEIMGKGNIGFGKVDITIEKELQQEFGITKAPELKLFFEGNRSEPI SCKGVVE
 SAALVWVLRRIISQKAFVNSSEQVAEFVISRPLVIVGFFQDLEEEVAELFYDVIKDFPELTFGVITIGN
 VIGRFHVTLDVSLVFKKGI VNRQKLINDSTNKQELNRVIKQHL TDFVIEYNTENKDLISELHIMSHMLL
 FVSKSSESYGIIIQHYKLASKEFQNKILFILDVADEPRNGRVFKYFRVTEVDIPSQVILNLSDDARYKMP
 SDDITYESLKKFGRSFLSKNATKHQSSEIIPKYWDQGLVKQLVGKNFNVVVFDEKEDVFMFYAPWSKCC
 KMLFPLLEELGRKYQNHSTIIIAKIDVTANDIQLMYLDRYPFRLLFPSGSQAVLYKGEHTLKGFSDFLE
 SHIKTKIEDEDELLSVEQNEVIEEVLAEKEVPMRKGLEPQQSPELENMTKYVSKLEEPAGKKKTTSEE
 VVVVAKPKGPPVQKKPKVKEEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6707_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174924

ORF Size: 1752 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_174924.2](#)

RefSeq Size: 2195 bp

RefSeq ORF: 1755 bp

Locus ID: 204474

UniProt ID: [Q8N807](#)

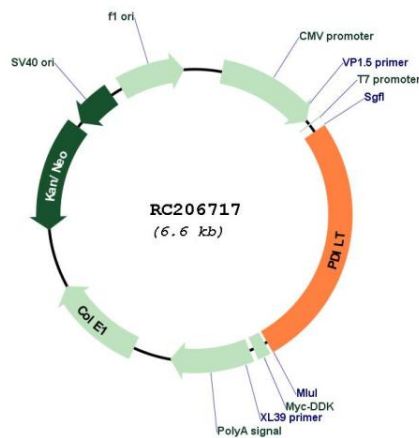
Cytogenetics: 16p12.3

Protein Families: Druggable Genome

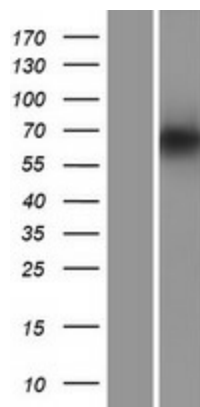
MW: 66.7 kDa

Gene Summary: 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]

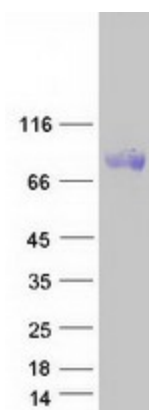
Product images:



Circular map for RC206717



Western blot validation of overexpression lysate (Cat# [LY406406]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206717 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDILT protein (Cat# [TP306717]). The protein was produced from HEK293T cells transfected with PDILT cDNA clone (Cat# RC206717) using MegaTran 2.0 (Cat# [TT210002]).