

Product datasheet for **RG206717**

PDILT (NM_174924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDILT (NM_174924) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDILT
Synonyms:	PDIA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206717 representing NM_174924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGACCTACTCTGGATGCCCTGCTGCTGGTGGCCGCTTGTGTCTCTGCTGTCCACAGCTCACCAGAGG
 TTAACGCCGGTGTTCAGCATCCACATAACCAAGCCTGTGCACATCCTGGAGGAACGCAGTCTCCTAGT
 GCTAACGCCCGCTGGCCTGACCCAGATGCTGAACCAGACCCGCTTCTCATGGTGCTTTTCCACAACCCA
 TCCTCAAAGCAATCCAGGAACCTGGCGGAAGAGCTGGGCAAAGCTGTGGAGATCATGGGCAAAGGCAAGA
 ATGGGATCGGCTTTGGCAAAGTGACATTACCATAGAGAAGGAGCTTCAGCAGGAGTTTGGGATTACCAA
 GGCCCCGAGTTGAAGCTGTTTTTGGGGCAACAGGTGAGAGCCCATCAGCTGCAAAGGAGTGTTGAA
 TCTGCTGCCTTAGTCGTTTGGTTGAGACGACAAATTAGCCAGAAAGCATTTTTGTTCAACAGCAGCGAGC
 AGGTGGCAGAGTTTGTGATATCCAGGCCCTTGGTCATCGTTGGCTTCTTCCAGGATTTAGAGGAAGAAGT
 AGCAGAGTTGTTCTATGATGTGATCAAAGACTTTCCAGAGCTAACGTTTGGAGTCATAACGATTGGCAAT
 GTCAATTGGCGTTCACGTCACCTTGACAGCGTCCTGGTGTTCAAAAAGGGAAAAATTGTGAACCGCC
 AAAAGCTTATTAATGACAGTACCAACAAACAGGAACCTCAATCGTGTCTAAAAACAGCACCTTACAGATTT
 TGTGATCGAATACAACACTGAGAATAAGGATCTGATTTCCGAGTTGCACATCATGAGTCACATGCTGCTG
 TTTGTCTCCAAAAGCTCCGAGTCATATGGTATCATAATTACGATTATAAGCTGGCATCAAAGGAATTCC
 AAAACAAGATCCTTTTCATCCTTGTGGATGCAGACGAACCCAGAAATGGACGTGTCTTCAAGTACTTCCG
 GGTCACAGAGGTGCATATCCATCCGTCCAAATCCTAACTTGAGCTCTGACGCCAGGTACAAAATGCCT
 TCAGATGACATAACCTACGAAAGCCTCAAGAAATTTGGCCGAGCTTCTGAGTAAAAATGCCACAAAAC
 ATCAATCCAGTGAAGAGATTCCAAAATACTGGGACCAGGACTGGTTAAGCAGCTCGTGGGAAGAACTT
 CAACGTAGTCGTCTTTGACAAAGAAAAGGACGTATTTGTGATGTTCTATGCACCTGGTCTAAAAAGTGC
 AAGATGCTGTTCCCACTGTTGGAGGAATTGGGCAGAAAATATCAAAACCACTCCACAATTATCATTGCCA
 AGATCGATGTACAGCAAATGACATTGAGCTGATGTACCTGGACCGGTACCCATTCTTCAAGGCTGTTCC
 CAGCGGCTCTCAACAAGCTGTCTGTATAAGGGAGAACACACCCTGAAGGGCTTCTGACTTCTTGAA
 AGCCACATCAAACTAAGATTGAGGATGAGGATGAGCTGTTGTCTGTTGAGCAAAATGAAGTGATAGAAG
 AGGAAGTGCTAGCTGAGGAAAAGGAGGTGCCTATGATGAGGAAAGGGTTACCTGAACAGCAGTCGCTGA
 GCTGGAGAACATGACCAAGTACGTATCCAAGCTGGAAGAGCCCGCTGGGAAGAAGAAAACATCTGAGGAG
 GTGGTGGTGGTGGTAAAGCCAAAGGACCTCCAGTGCAAAAGAAGAAACCAAAAGTCAAGGAAGAAC
 TT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206717 representing NM_174924
 Red=Cloning site Green=Tags(s)

MDLLWMPLLLVAACVSAVHSSPEVNAGVSSIHITKPVHILEERSLLVLTAPAGLTQMLNQTRFLMVLFHNP
 SSKQSRNLAEELGKAVEIMGKGKNGIGFGKVDITIEKELQQEFGITKAPELKLFFEGNRSEPI SCKGVVE
 SAALVWLRRLRQISQKAF LFNSSQVAEFVISRPLVIVGFFQDLEEEVAELFYDVIKDFPELTFGVITIGN
 VIGRFHVTLDVSVLFKKGKIVNRQKLINDSTNKQELNRVIKQHLTDFVIEYNTENKDLISELHIMSHMLL
 FVSKSSSYGII IQHYKLASKEFQNKILFILVDADEPRNGRVFKYFRVTEVDIPSQILNLSSDARYKMP
 SDDITYESLKKFGRSFLSKNATKHQSSEI PKYWDQGLVKQLVGKNFNVVFDKEKDVFMFYAPWSKKC
 KMLFPLLEELGRKYQNHSTIIIAKIDVTANDIQLMYLDRYPFFRLFPSGSQQAVLYKGEHTLKGFSDFLE
 SHIKTKIEDEDELLSVEQNEVIEEEVLAEKEVPMRKGLPEQQSPELENMTKYVSKLEEPAGKKKTSEE
 VVVVVAKPKGPPVQKKPKVKEEL

TRTRPLE – GFP Tag – V

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

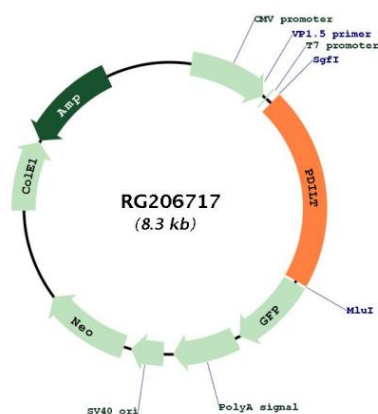
UniProt ID: [Q8N807](#)

Cytogenetics: 16p12.3

Protein Families: Druggable Genome

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 RG206717