

## Product datasheet for **SC317891**

### **PDI (PDIA2) (NM\_006849) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDI (PDIA2) (NM_006849) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDI
Synonyms:	PDA2; PDI; PDIP; PDIR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for NM\_006849 edited  
 CATGAGCCGCCAGCTTCTGCCTGTAAGTGTGCTGCTGCTGCTCAGGGCTTCGTGCCCATG  
 GGGTCAGGAACAGGGAGCGAGGAGCCCTCGGAGGAGCTCCAGAGGAGGAAATCCCAA  
 GGAGGATGGGATCTTGGTGTGAGCCGCCACACCTGGGCTGGCCCTGCGGGAGCACCC  
 TGCCCTGCTGGTGAATTCTATGCCCGTGGTGTGGGCACTGCCAGGCCCTGGCCCCGA  
 GTACAGCAAGGCAGCTGCCGTGCTCGCGCCGAGTCAATGGTGGTACAGCTGGCCAAGGT  
 GGATGGGCCCGCGCAGCGGAGCTGGCTGAGGAGTTTGGTGTGACGGAGTACCCTACGCT  
 CAAGTTCTTCGCAATGGGAACCGCACGCCACCCGGAGGAGTACACAGGACCACGGGACGC  
 TGAGGGCATTGCCGAGTGGCTGCGACGGCGGGTGGGGCCAGTGCATGCGGCTGGAGGA  
 CGAGGCGGCCGCCAGGCGCTGATCGGTGGCCGGGACCTAGTGGTATTGGCTTCTTCCA  
 GGACCTGCAGGACGAGGACGTGGCCACCTTCTTGGCCTTGGCCAGGACGCCCTGGACAT  
 GACCTTTGGCCTCACAGACCGGCCGCGGCTCTTTCAGCAGTTTGGCCTACCAAGGACAC  
 TGTGGTTCTCTCAAGAAGTTTGTGAGGGGCGGGCAGACTTCCCGTGGACGAGGAGCT  
 TGGCCTGGACCTGGGGATCTGTGCGCTTCTGGTACACACAGCATGCGCCTGGTAC  
 GGAGTTCAACAGCCAGACGTCTGCCAAGATCTTCGCGGCCAGGATCCTCAACCACCTGCT  
 GCTGTTTGTCAACCAGACGCTGGCTGCGCACCCGGAGCTCCTAGCGGGCTTTGGGAGGC  
 AGCTCCCCGCTTCCGGGGCAGGTGCTGTTCTGTTGGTGGACGTGGCGGCCGACAAATGA  
 GCACGTGCTGCAGTACTTTGGACTCAAGGCTGAGGCAGCCCCACTCTGCGCTTGGTCAA  
 CCTTGAACCCTAAGAAGTATGCGCCTGTGGATGGGGCCCTGTACCAGCAGCTCCAT  
 CACTGCTTTCTGCCATGCAGTCTCAACGGCCAAGTCAAGCCCTATCTCTGAGCCAGGA  
 GATACCCCTGATTGGGATCAGCGGCCAGTTAAGACCCTCGTGGGCAAGAATTTTGGCA  
 GGTGGCTTTTACGAAACCAAGAATGTGTTTGTCAAGTTCTATGCCCGTGGTGCACCCA  
 CTGCAAGGAGATGGCCCCCTGCCTGGGAGCATTGGCTGAGAAGTACCAAGACCAGGAGGA  
 CATCATATTGCTGAGCTGGATGCCACGGCCAACGAGCTGGATGCCTTCGCTGTGCACGG  
 CTTCCCTACTCTCAAGTACTTCCAGCAGGGCCAGGTTCGAAAGGTGATTGAATACAAAAG  
 CACCAGGGACCTGGAGACTTTCTCCAAGTCTCTGGACAACGGGGCGTGTGCCACGGA  
 GGAGCCCCCGGAGGAGCCAGCAGCCCCGTTCGCGGAGCCACCGGCCAACTCCACTATGGG  
 GTCCAAGGAGGAAGTGTAGCTGCCCCCGTGTACCCCCGCCATCACTGCTGGACAGGAGC  
 CACCCCTTGGGTACCAGAGGGAGCTGTGCATTGTGAATAAAGAGTGAGCTTGGTCTGG  
 AA

**Restriction Sites:** Please inquire

**ACCN:** NM\_006849

**Insert Size:** 1800 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).

**OTI Annotation:** 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.

**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\\_006849.2](#), [NP\\_006840.2](#)

**RefSeq Size:** 1726 bp

**RefSeq ORF:** 1578 bp

**Locus ID:** 64714

**UniProt ID:** [Q13087](#)

**Cytogenetics:** 16p13.3

**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 catalytically active thioredoxin (TRX) domains, two TRX-like domains and a C-terminal ER-retention sequence. The protein plays a role in the folding of nascent proteins in the endoplasmic reticulum by forming disulfide bonds through its thiol isomerase, oxidase, and reductase activity. The encoded protein also possesses estradiol-binding activity and can modulate intracellular estradiol levels. [provided by RefSeq, Sep 2017]