

## Product datasheet for **SC127860**

### **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)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006849, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCGCCAGCTTCTGCTGTACTGCTGCTGCTGCTGCTCAGGGCTTCGTGCCCATGGGGTCAGGAAC
AGGGAGCGAGGAGCCCCCTCGGAGGAGCCTCCAGAGGAGGAAATCCCCAAGGAGGATGGGATCTTGGTGCT
GAGCCCGCACACCCCTGGCCTGGCCCTGCGGGAGCACCCCTGCCCTGCTGGTGAATTCTATGCCCGTGG
TGTGGGCACTGCCAGGCCCTGGCCCCGAGTACAGCAAGGCAGCTGCCGTGCTCGCGGCCGAGTCAATGG
TGGTCACGCTGGCCAAGGTGGATGGGCCCGCGCAGCGGAGCTGGCTGAGGAGTTTGGTGTGACGGAGTA
CCCTACGCTCAAGTTCTTCCGCAATGGGAACCGCACGCACCCGGAGGAGTACACAGGACCACGGGACGCT
GAGGGCATTGCCGAGTGGCTGCGACGGCGGGTGGGGCCAGTGCCATGCGGCTGGAGGACGAGGCGGCCG
CCCAGGCGCTGATCGGTGGCCGGGACCTAGTGGTCATTGGCTTCTTCCAGGACCTGCAGGACGAGGACGT
GGCCACCTTCTTGGCCTTGGCCCAGGACGCCCTGGACATGACCTTGGCCTCACAGACCGGCCGCGGCTC
TTTCAGCAGTTTGGCCTACCAAGGACACTGTGGTTCTCTTCAAGAAGTTTGGTGGGGGGGCGGAGCT
TCCCCGTGGACGAGGAGCTTGGCCTGGACCTGGGGGATCTGTGCGCTTCTGGTACACACAGCATGCG
CCTGGTACGGAGTTCAACAGCCAGACGCTGCCAAGATCTTCCGCGCCAGGATCCTCAACCACCTGCTG
CTGTTTGTCAACCAGACGCTGGCTGCGCACCGGGAGCTCCTAGCGGGCTTGGGGAGGCAGCTCCCCGCT
TCCGGGGGCGAGTGTGTTGCTGGTGGTGGACGTGGCGGCCGACAATGAGCACGTGCTGCAGTACTTTGG
ACTCAAGGCTGAGGCAGCCCCACTCTGCGCTTGGTCAACCTTGAACCCTAAGAAGTATGCGCCTGTG
GATGGGGGCCCTGTACCCGACGCGTCCATCACTGCTTCTGCCATGCAGTCTCAACGGCCAAGTCAAGC
CCTATCTCCTGAGCCAGGAGATACCCCTGATTGGGATCAGCGGCCAGTTAAGACCCTCGTGGGCAAGAA
TTTTGAGCAGGTGGCTTTTGGACGAAACCAAGAATGTGTTTGTCAAGTTCTATGCCCGTGGTGCACCCAC
TGCAAGGAGATGGCCCCCTGCCTGGGAGGCAATTGGCTGAGAAGTACCAAGACCACGAGGACATCATATTG
CTGAGCTGGATGCCACGGCCAACGAGCTGGATGCCCTTCCGCTGTGCACGGCTTCCCTACTCTCAAGTACTT
CCCAGCAGGGCCAGTCCGGAAGGTGATTGAATACAAAAGCACCAGGGACCTGGAGACTTTCTCAAGTTC
CTGGACAACGGGGCGTGTGCTGCCACGGAGGAGCCCCGGAGGAGCCAGCAGCCCGTTCCCGGAGCCAC
CGGCCAACTCCACTATGGGGTCCAAGGAGGAAGTGTAG
    
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**Restriction Sites:** NotI-NotI

**ACCN:** NM\_006849

**Insert Size:** 1300 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).

**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]