

Product datasheet for **SC336166**

PDIA6 (NM_001282706) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDIA6 (NM_001282706) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDIA6
Synonyms:	ERP5; P5; TXNDC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336166 representing NM_001282706. Blue=Insert sequence Red=Cloning site Green=Tag(s)

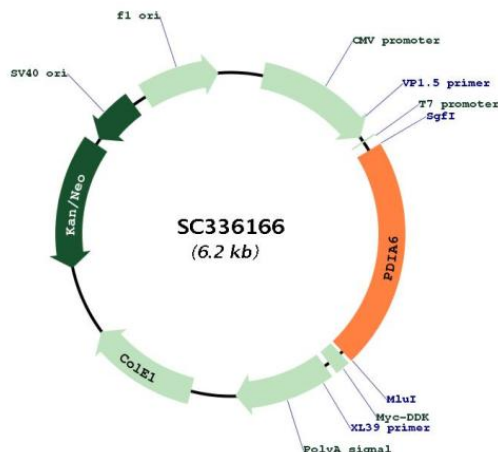
```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTATCCATCAACCACCATGGCTAATGCACCCGGTCTGGTGAGCTGTACCTTCTTTCTGGCAGTGAAT
GGTCTGTATTCTCTAGTGATGATGTGATCGAATTAACCCATCGAATTTCAACCGAGAAGTTATTCAG
AGTGATAGTTTGTGGCTGTAGAATTCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAACACCAGAA
TGGAAGAAAGCAGCAACTGCATTAAGATGTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCAT
TCCCTAGGAGTCAAGTGGTGTTCAGGGATTTCTACCATTAAGATTTTGGATCCAACAAAAACAGA
CCAGAAGATTACCAAGGTGGCAGAACTGGTGAAGCCATTGTAGATGCTGCGCTGAGTGTCTGCGCCAG
CTCGTGAAGGATCGCCTCGGGGGACGGAGCGGAGGATACAGTTCTGGAAAACAAGGCAGAAGTGATAGT
TCAAGTAAGAAGGATGTGATTGAGCTGACAGACGACGCTTTGATAAAGATGTTCTGGACAGTGAAGAT
GTTTGGATGGTTGAGTTCATGCTCCTTGGTGTGGACACTGCAAAAACCTAGAGCCAGAGTGGGCTGCC
GCAGCTTCAGAAGTAAAAGAGCAGACGAAAGGAAAAGTAAAAGTGGCAGCTGTGGATGCTACAGTCAAT
CAGGTTCTGGCCTCCCGATACGGGATTAGAGGATTTCTACAATCAAGATATTTAGAAAAGGCGAGTCT
CCTGTGGATTATGACGGTGGCGGACAAGATCCGACATCGTGTCCCGGCCCTTGATTTGTTTTCTGAT
AACGCCCCACCTCCTGAGCTGCTTGAGATTATCAACGAGGACATTGCCAAGAGGACGTGTGAGGAGCAC
CAGCTGTGTGGTGGCTGTGCTGCCCATATCCTTGATACTGGAGCTGCAGGCAGAAATCTTATCTG
GAAGTTCTTCTGAAGTTGGCAGACAAATACAAAAGAAAATGTGGGGTGGCTGTGGACAGAAGCTGGA
GCCAGTCTGAACCTTGAGACCGCTTGGGGATTGGAGGTTTGGGTACCCCGCCATGGCCGCCATCAAT
GCACGCAAGATGAAATTTGCTCTGCTAAAAGGCTCCTTCAGTGAGCAAGGCATCAACGAGTTTCTCAGG
GAGCTCTCTTTGGCGTGGCTCCACGGCACCTGTAGGAGGCGGGCTTTCCCTACCATCGTTGAGAGA
GAGCCTTGGGACGGCAGGGATGGCGAGCTTCCCGTGGAGGATGACATTGACCTCAGTGATGTGGAGCTT
GATGACTTAGGAAAGATGAGTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```



[View online »](#)

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001282706

Insert Size: 1338 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_001282706.1](#)

RefSeq Size: 2552 bp

RefSeq ORF: 1338 bp

Locus ID: 10130

UniProt ID: [Q15084](#)

Cytogenetics: 2p25.1

Protein Families: Druggable Genome

MW: 48.6 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 catalytically active thioredoxin (TRX) domains, a TRX-like domain, and a C-terminal ER-retention sequence. This protein inhibits the aggregation of misfolded proteins and exhibits both isomerase and chaperone activity. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]

Transcript Variant: This variant (3) lacks a portion of the 5' UTR and 5' coding region, and uses a downstream in-frame translational start codon, compared to variant 1. The encoded isoform (c) is shorter at the N-terminus, compared to isoform a.