

## Product datasheet for SC336122

### PDIA6 (NM\_001282707) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDIA6 (NM_001282707) 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:	>SC336122 representing NM_001282707. Blue=Insert sequence Red=Cloning site Green=Tag(s)

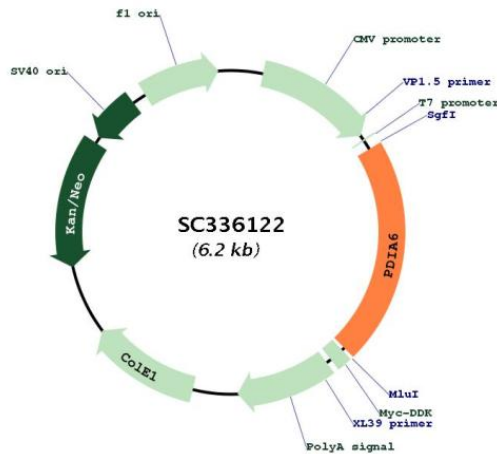
```
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GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGATCTTAGGTCTGGT GAGCTGTACCTCTTTCTGGCAGTGAATGGTCTGTATTCCTCTAGTGATGAT
GTGATCGAATTA ACTCCATCGAATTTCAACCGAGAAGTTATTCAGAGTGATAGTTTGTGGCTTGTAGAA
TTCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAACACCAGAATGGAAGAAAGCAGCAACTGCATTA
AAAGATTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTCAGTATGGTGT
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TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001282707

Insert Size: 1314 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\\_001282707.1](#)

RefSeq Size: 2527 bp

RefSeq ORF: 1314 bp

Locus ID: 10130

UniProt ID: [Q15084](#)

Cytogenetics: 2p25.1

Protein Families: Druggable Genome

**MW:** 47.8 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 (5) contains alternate 5' exon structure and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (e) has a distinct N-terminus and is shorter than isoform a.