

Product datasheet for **SC322187**

PDIA6 (NM_005742) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDIA6 (NM_005742) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDIA6
Synonyms:	ERP5; P5; TXNDC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322187
 GGCCTGGGGCGGGACGTGGGCGCGGGGCGCGCGTGCGGCACGCTGCAGGGCTGAAGCG
 GCGGGCGCGGTGGGGACTGCACGTAGCCCGGCGCTCGGCATGGCTCTCCTGGTGCCTGGT
 CTGGTGAGCTGTACCTCTTTCTGGCAGTGAATGGTCTGTATTCTCTAGTGATGATGTG
 ATCGAATTAACCCATCGAATTTCAACCGAGAAGTTATTCAGAGTGATAGTTTGTGGCTT
 GTAGAATCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAACACCAGAATGGAAGAAA
 GCAGCAACTGCATTAAGAAGATGTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCAT
 TCCCTAGGAGGTCAATGTTGTTCAAGGATTTCTACCATTAAAGATTTTGGATCCAAC
 AAAAACAGACCAGAAGATTACCAAGGTGGCAGAACTGGTGAAGCCATTGTAGATGCTGCG
 CTGAGTGTCTGCGCCAGCTCGTGAAGGATCGCCTCGGGGACGGAGCGGAGGATACAGT
 TCTGGAAAACAAGGCAGAAGTGATAGTTCAAGTAAAGAAGGATGTGATTGAGCTGACAGAC
 GACAGCTTTGATAAGAATGTTCTGGACAGTGAAGATGTTTGGATGGTTGAGTTCTATGCT
 CCTTGGTGTGGACTGCAAAAACCTAGAGCCAGAGTGGGCTGCCGACGTTTCAAGATA
 AAAGAGCAGACGAAAGGAAAAGTAAACTGGCAGCTGTGGATGCTACAGTCAATCAGGTT
 CTGGCCTCCCGATACGGGATTAGAGGATTTCTACAATCAAGATATTTTCAGAAAGCGGAG
 TCTCCTGTGGATTATGACGGTGGGCGGACAAGATCCGACATCGTGTCCCGGGCCCTTGAT
 TTGTTTTCTGATAACGCCCCACCTCCTGAGCTGCTTGAGATTATCAACGAGGACATTGCC
 AAGAGGACGTGTGAGGAGCACCAGCTCTGTGTTGTGGCTGTGCTGCCCATATCCTTGAT
 ACTGGAGCTGCAGGCAGAAATCTTATCTGGAAGTTCTTCTGAAGTTGGCAGACAATAC
 AAAAAGAAAATGTGGGGTGGCTGTGGACAGAAGCTGGAGCCAGTCTGAACTTGAGACC
 GCGTTGGGGATTGGAGGGTTTGGGTACCCCGCCATGGCCGCCATCAATGCACGCAAGATG
 AAATTTGCTCTGCTAAAAGGCTCCTTCAGTGAGCAAGGCATCAACGAGTTTCTCAGGGAG
 CTCTCTTTTGGGCGTGGCTCCACGGCACCTGTAGGAGGCGGGGCTTTCCCTACCATCGTT
 GAGAGAGAGCCTTGGGACGGCAGGGATGGCGAGCTTCCCGTGGAGGATGACATTGACCTC
 AGTGATGTGGAGCTTGATGACTTAGGGAAGATGAGTTGTGAGAGCCACAACAGAGGCTT
 CAGACCATTTTCTTTTCTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCT
 ACACTCAGATGACTCTACCAGTGGCCTTTTAACCAAGAAGTAGTACTTGATTGGTCATTT
 GAAAACACTGCAACAGTGAACCTTTGCATCTCAAGAAAACATTGAAAAATCTATGAATT
 GTTGTAGCCGGTGAATTGAGTCGTATTCTGTACATAATATTTTGAAGAAAACCTGGCTG
 TCGAAACATTTTCTCTCTGACTGCTGCTGAATGTTCTTGGAGGCTGTTTCTTATGAT
 GGGTTTTTTTTAATGTGATCCCTTCATTTGAATATTAATGGCTTTTTCCATTAAGAATA
 AAATATTTTGGACAATGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005742

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:	<ol style="list-style-type: none">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_005742.2 , NP_005733.1
RefSeq Size:	2344 bp
RefSeq ORF:	1323 bp
Locus ID:	10130
UniProt ID:	Q15084
Cytogenetics:	2p25.1
Domains:	thioered
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) contains alternate 5' exon structure and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (d) has a distinct N-terminus and is shorter than isoform a.</p>