

Product datasheet for **SC115865**

PDIR (PDIA5) (NM_006810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDIR (PDIA5) (NM_006810) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDIA5
Synonyms:	PDIR
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006810, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCCGGGCGGCGTGGCTGCTGCTGGCAATCTGGGTGGTCTGCCATCATGGCTGTCTCTG
CAAAGGTCTCTCGTCTATTGAGAGAATCTCTGACCCCAAGGACTTGAAAAACTGCTCAGAACCCGGAA
TAATGTACTGGTGCTTTACTCCAATCTGAGGTGGCAGCTGAAAATCATCTCAGGTTACTGTCCACAGTG
GCCAGGCGGTGAAAGGACAAGGACCATCTGCTGGGTGGACTGTGGTATGCAGAGAGTAGAAAATTGT
GCAAGAAGATGAAAGTTGACCTGAGCCGAAGGACAAAAGGTTGAATTATTCCATTACCAGGATGGTGC
ATTTTCATACTGAATATAACCGAGCTGTGACATTTAAGTCCATAGTGGCCTTTTTGAAGGATCCAAAAGGG
CCCCACTGTGGGAGGAAGATCCTGGAGCCAAAGATGTTGTCCACCTTGACAGTAAAAGGACTTCAGAC
GGCTCCTGAAGAAGGAAGAGAAGCCGCTCCTGATCATGTTTTATGCCCTGGTGCAGCATGTGCAAGAG
GATGATGCCGCAATTTCCAGAAGGCTGCGACTCAGCTGCGAGGCCACGCCGTGCTGGCCGGGATGAATGTC
TACTCCTCTGAATTTGAAAACATCAAGGAGGAGTACAGCGTGCGCGGCTTCCCCACCATCTGCTATTTTG
AGAAAGGACGGTCTTGTTCAGTATGACAACATGGGTCCACAGCTGAGGACATTGTGGAGTGGCTGAA
GAATCCGACGCCACAGCCCCAGGTCCCTGAGACTCCCTGGGCAGATGAGGGCGGCTCCGTTTATCAC
CTGACCGATGAAGACTTTGACCAGTTTGTGAAGGAACACTCCTCTGTCTCGTCATGTTCCACGCCCCAT
GGTGTGGCCACTGTAAGAAAATGAAGCCGGAGTTTGAGAAGGCAGCAGAAGCCCTCCATGGAGAAGCGGA
TAGCTCTGGTGTCTTGCAGCTGTGATGCCACTGTCAACAAGGCCCTGGCAGAAAGATTCCACATCTCA
GAGTTTCTACGTTGAAGTATTTAAGAATGGAGAGAAAACGCACTGCTGTGCTCAGGACAAAAGAAGA
AGTTTCTCGAGTGGATGCAAAACCTGAGGCCCCCCCGCCCCAGAGCCACGTGGGAAGAGCAGCAGAC
AAGCGTGTGACCTGGTGGGGACAACCTCCGGGAGACCCTGAAGAAGAAGAAACACACCTTGGTCATG
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AAGATGACCGAAAGATTGCTGTGCCGCTGTTGACTGTGTCAAAGACAAGAACCAAGACCTGTGCCAGCA
GGAGGCGGTCAAGGGCTACCCCACTTTCCACTACTACCACTATGGGAAGTTCGCAGAAAAGTATGACAGC
GACCGCACAGAATTGGGATTTACCAATTATATTCGAGCCCTCCGGGAGGGAGACCATGAAAGACTAGGGA
AAAAGAAGGAAGATTATAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006810 unedited TCAGCATTTTGTAAACGACTTCACTATAGGGCGGCCGCGATTCCGGCACCAGNAGCGGCT GGGAAGTGGCCGTGGTGGTTGGCCCGCGGTGGAGCTAGCAGGCGGGCGGGCGGGAGCGGGC GCCGGAGTGGAGAAAGGAGCCAGCGGTGGGCAGCGCTGCTGGGATGGCGCGGGCCGGGCC GGCGTGGCTGCTGCTGGCAATCTGGGTGGTCTGCCATCATGGCTGTCTCTGCAAAGGT CTCCTCGCTCATTGAGAGAATCTTGACCCCAAGGACTGAAAAAAGTCTCAGAACCCG GAATAATGTAAGTGGTCTTTACTCCAAATCTGAGGTGGCAGCTGAAAATCATCTCAGGTT ACTGTCCACAGTGGCCAGGCGGTGAAAGGACAAGGGACCCTGCTGGGTGGACTGTGG TGATGCAGAGAGTAGAAAATTGTGCAAGAAGATGAAAGTTGACCTGAGCCCGAAGGACAA AAAGGTTGAATTATCCATTACCAGGATGGTGCATTTCACTGAATATAACCGAGCTGT GACATTTAAGTCCATAGTGGCCTTTTTGAAGGATCCAAAAGGGCCCCACTGTGGGAGGA AGATCCTGGAGCCAAAGATGTTGTCCACCTTGACAGTAAAAGGACTTCAGACGGCTCCT GAAGAAAGAAGAGAAGCCGCTCCTGATCATGTTTTATGCCCCCTGGTGCAGCATGTGCAA GAAGATGATGCCGCATTTCCAGAAGGCTGCGACTCAGTGCAGGCCACGCCGTGCNTGC CGGGGATGATGTCTACNTCTCTGAATTTGAAACATCANGGAGAGTACAGCGTGGCGGGCT TCCCCACATCTGCTATTTTGAGAAAGGACGGNTCTGTTAGTATGACACTATGGGTCCAC AGCTGNAGACATTGTGNAGTGGGCTGAGAATCCGCAGCCGCACAGCCCCAGTCCCTGGA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006810 unedited ATCTATGNACCGCCGCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAAATGGTT TAATTTTATTTCAAATTTGTACAAAATGGCCATAAAGCGGCTATAAAAAATTTGTCTTCAG AACATGTGAAATTCAGAAACAACAAAACAGGTATCATTACAGTGTAATGAAAAAGCTT TTTCTGAGGCAGGAATTATAACTCTTCTTTTCCCTAGTCTTTCATGGTCTCCCTC CCGGAGGGCTCGAATATAATTGGTAAATCCAATTCTGTGCGGTGCTGTACTACTTTTC TGCGAACTTCCATAGTGGTAGTAGTGGAAAGTGGGGTAGCCCTTGACCGCCTCCTGCTG GCACAGGTCTTGTTCTTGTCTTTGACGCAGTCAACAGCGGCACAGGCAATCTTTCGGTC ATCTTTGAAGGCATCAGCAGTAGCAGTAAAGTGCAGGAAATGACCTTCTTACAGTGTGGCA CCAAGGGCGTAGAACATGACCAAGGTGTGTTTCTTCTTTCAGGGTCTCCCGAAGTT GTCCCCGACCAGGTGCAACACGCTTGTCTGCTGCTTCCACAGTGGCTCCTGGGGGGCG GNGGGGGCCTCANGGATGGGGCGTGGAACATGACGAGGACAGAGGAGTGTTCCTTCAAA ACTGGTCAAAGTCTTCACTCGGTGAGGTGATAAACGGAGCCGCCCTCATCTGCCAGGGAG TCTCAGGGACCTGGGGCTGTGGCGGCTGCGGATTTCTCAGCCACTCCACAATGTCCTCAG CTGTGGACCCATAGTTGTCACTGGAACAAGAACCCTCTTTCTCAAATAGCAGATGGT GGGGAAGCCGCGCACGCTGTACTCCTTGTGTTTCAAATTCANAAGAGTAGACATTC TCCCGCCAGCACGGCGTGGGCT
Restriction Sites:	NotI-NotI
ACCN:	NM_006810
Insert Size:	1650 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).
RefSeq:	NM_006810.1 , NP_006801.1
RefSeq Size:	1873 bp
RefSeq ORF:	1560 bp
Locus ID:	10954

UniProt ID: [Q14554](#)

Domains: thioered

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, three catalytically active thioredoxin (TRX) domains, a TRX-like domain, and a C-terminal ER-retention sequence. The N-terminal TRX-like domain is the primary binding site for the major ER chaperone calreticulin and possibly other proteins and substrates as well. Alternative splicing results in multiple protein- and non-protein-coding transcript variants. [provided by RefSeq, Dec 2016]
Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein.