

Product datasheet for **SC319327**

ERp72 (PDIA4) (NM_004911) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERp72 (PDIA4) (NM_004911) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERp72
Synonyms:	ERp-72; ERP70; ERP72
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 NM_004911.3
GGCGGGAGCCGACTCGTCGCGCCGAGGGCGCACGCGTCCGCGCCGGCGTCAGTCTGG
GATTGGCCGGCCCGGACTTCTCCGCCCTGCCAATCGCCGGGACGACTTCCGTGG
TTTTCCGGCTCTCCCGCTCGCTAAGGAGCGACGGGTGTGGCCAGACCCCGAGTTCT
CGGTGCGCTCAGCGCCCGGACGCTAGGAGCCGCGCTCCGCCCGCTACCATGAGGC
CCCGAAAACCTTCTGCTCTGCTCTTGGGGTGGTGCAGCTGTGGCCGTGGCGG
GTGCCGAGGGCCCGACGAGGATTCTTAACAGAGAAAATGCCATTGAGGATGAAGAGG
AGGAGGAGGAGGAAGATGATGATGAGGAAGAAGACGACTTGAAGTTAAGGAAGAAAATG
GAGTCTTGGTCTAAATGATGCAAACTTTGATAATTTTGTGGCTGACAAAGACACAGTGC
TGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCAAGCAGTTTGTCCGGAATATGAAA
AAATTGCCAACATATTAAGGATAAAGATCCTCCATTCTGTTGCCAAGATCGATGCAA
CCTCAGCGTCTGTGCTGGCCAGCAGTTTGTGTGAGTGGCTACCCACCATCAAGATCC
TTAAGAAGGGGCGAGGCTGTAGACTACGAGGGCTCCAGAACCAGGAAGAAATTGTTGCCA
AGGTGAGAGAAGTCTCCAGCCGACTGGACGCCTCCACCAGAAGTACGCTTGTGTTGA
CCAAAGAGAACTTTGATGAAGTTGTGAATGATGCAGATATCATTCTGGTGGAGTTTTATG
CCCCATGGTGTGGACACTGCAAGAAACTTGCCCCGAGTATGAGAAGGCCCAAGGAGC
TCAGCAAGCGTTCTCTCCAATTCCTTGCAAAGGTCGACGCCACCGCAGAAACAGACC
TGGCAAGAGGTTTGTGCTCTGGCTATCCCACCTGAAAAATTTCCGCAAAGGAAGGC
CTTATGACTACAACGGCCACGAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGT
CCGGGCTCCCTCAAGGAGATTCTGACCCTGAAGCAGTCCAGGAGTTCCTGAAGGATG
GAGACGATGTATCATCATCGGGTCTTTAAGGGGAGAGTGACCCAGCCTACCAGCAAT
ACCAGGATGCCGCTAACAACTGAGAGAAGATTACAAATTTACCACACTTTTCAGCACAG
AAATAGCAAAGTTCTTGAAGTCTCCAGGGCAGTTGGTTGTAATGCAGCCTGAGAAA
TCCAGTCCAAGTATGAGCCCGGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACT
CGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGCCCTGGTTGGCCACCGCAAGGTGT
CAAACGATGCTAAGCGCTACACCAGCGCCCCCTGGTGGTCTACTACAGTGTGGACT
TCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCTAGAGGTGGCCA
AGGACTTCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGA
AGGACTGGGGCTCAGCGAGAGTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTG
GGAAGAAGTTCGCCATGGAGCCAGAGGAGTTGACTCTGACACCCTCCGCGAGTTTGTCA
CTGCTTTCAAAAAGGAAAAGTGAAGCCAGTCAAAATCCAGCCAGTGCCCAAGAACA
ACAAGGGACCCGTCAGGTCTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCA
AGAAGGACGTCCTCATCGAGTTCTACGCACCATGGTGCGGGCACTGCAAGCAGCTAGAGC
CCGTGTACAACAGCCTGGCCAAGAAGTACAAGGGCCAAAAGGGCCTGGTCAATCGCCAAGA
TGGACGCCACTGCCAACGACGTCCCCAGCGACCCTATAAGGTGGAGGGCTTCCCACCA
TCTACTTCGCCCCAGTGGGGACAAAAGAACCAGTTAAATTTGAGGGTGGAGACAGAG
ATCTGGAGCATTTGAGCAAGTTTATAGAAGAATGCCACAAAAGTGGAGCAGGACCAAGG
AAGAGCTTTGAAGCCTGAGGTCTGCGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCC
CATGGTCGGGGCTCCACGCCGAGGCCGCAACAAACGACAGTATCTCGGATTCTTTTT
TTTTTTTTTTAAATTTTTATACTTTGGTGTTCACCTCATGCTCTGAATACTGAATAAC
CATGAATGACTGAATAGTTTGTCCAGATTTTTACAGAGGATACATCTATTTTTATCATT
ATTTGGGGTTTGAATAATTTTTTTTACACCTTCTAATTTCTTTATTTCTCAAAGCAGAT
AATCTCTGTGTGAAAATGTTTTCTTTTTTTAATTTAAGGTTTAAAAATCCTTTGCCAA
ATCATGTTGATTTTCTCTTTTCTTTTCTGTTGTCTGAGAAATGTTGGCGTAGATTTGG
CTTCTGGTATGTGTTTCTGATTGCTTCTGTTGAGCACAAGTGAAGAGCTGCCACTGAGC
AGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGCGGCTCCCTGCAAACCAA
GGGCTGGGGGCAAGGGGATGATCCAGGTCCTCCAGGTTGGGCTCAGCTCCAGGGAGA
GGCCACCCACGTGGCAGCCACCTCTTGAAGCCCGAGTCCCGGAGCAGAAAGGACCC
TGGACCCAGAGGAGATCTGCGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGA
ATAAAACACGATTAACAACTTAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Restriction Sites: Please inquire

ACCN:	NM_004911
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).
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:	<u>NM_004911.3</u> , <u>NP_004902.1</u>
RefSeq Size:	2930 bp
RefSeq ORF:	1938 bp
Locus ID:	9601
UniProt ID:	<u>P13667</u>
Cytogenetics:	7q36.1
Domains:	thioered
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Vibrio cholerae infection
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, two TRX-like domains and a C-terminal ER-retention sequence. This protein, when bound to cyclophilin B, enhances the rate of immunoglobulin G intermolecular disulfide bonding and antibody assembly. [provided by RefSeq, Dec 2016]