

Product datasheet for SC116818

ERp57 (PDIA3) (NM_005313) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ERp57 (PDIA3) (NM_005313) Human Untagged Clone
Tag: Tag Free
Symbol: ERp57
Synonyms: ER60; ERp57; ERp60; ERp61; GRP57; GRP58; HEL-S-93n; HEL-S-269; HsT17083; P58; PI-PLC
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >OriGene ORF within SC116818 sequence for NM_005313 edited (data generated by NextGen Sequencing)

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ATGCGCCTCCGCGCCTAGCGCTGTTCCCGGGTGTGGCGTGCTTCTTGCCGCGGCCCGCCTCGCCGCTG
CCTCCGACGTGCTAGAACTCACGGACGACAACCTTCGAGAGTCGCATCTCCGACACGGGCTCTGCGGGCCT
CATGCTCGTCGAGTTCTTCGCTCCCTGGTGTGGACACTGCAAGAGACTTGACCTGAGTATGAAGCTGCA
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ACCTAGGACTGCTGATGGAATTGTCAGCCACTTGAAGAAGCAGGCAGGACCAGCTTCAGTGCCTCTCAGG
ACTGAGGAAGAATTAAGAAATTCATTAGTATAAAGATGCCTCTATAGTAGGTTTTTCGATGATTCAT
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GAGAAGCTCAGCAAAGACCCAAATATCGTCATAGCCAAGATGGATGCCACAGCCAATGATGTGCCTTCTC
CATATGAAGTCAGAGTTTTCTACCATATACTTCTCTCCAGCCAACAAGAAGCTAAATCCAAAGAAATA
TGAAGGTGGCCGTGAATTAAGTATTTTATTAGCTATCTACAAAGAGAAGCTACAAACCCCTGTAATT
CAAGAAGAAAACCCAAGAAGAAGAAGAAGGCACAGGAGGATCTCTAA
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Clone variation with respect to NM_005313.4
 46 c=>n;47 t=>n;48 t=>n;49 g=>n;50 c=>n;51 c=>n;52 g=>n;53 c=>n;162 c=>t;1224 c=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005313 unedited</p> <pre> CGGTGCAGATTTGTATACGACTCACTATAGGCGGCCGCGCAATCGGCACGAGGGCGGGTT AGTGGTCGCGCGCCCGACCTCCGCAGTCCCAGCCGAGCCGCGACCCCTCCGGCCGTCGCC ACCCACCTCGCCGCCATGCGCCTCCGCCGCTAGCGTGTTCCCGGGTGTGGCGCTGCT TCTTCCCGCGCCCGCCTCGCCGCTGCCTCCGACGTGCTAGAACTCACGGACGACAATT CGAGAGTCGCATCTCCGACACGGGCTCTCGGGCCCTCATGCTCGTGCAGTTCCTCGCTCC CTGGTGTGGACACTGCAAGAGACTTGACCTGAGTATGAAGCTGCAGCTACCAGATTA AGGAATAGTCCCATTAGCAAAGTTGATTGCACTGCCAACACTAACACCTGTAATAAATA TGGAGTCAGTGGATATCCAACCCTGAAGATATTTAGAGATGGTGAAGAAGCAGGTGCTTA TGATGGACCTAGGACTGCTGATGGAATTGTCAGCCACTGAAGAAGCAGGCAGGACCAGC TTCAGTGCCTCTCAGGACTGAGGAAGAATTTAAGAAATTCATTAGTGATAAAGATGCCTC TATAGTAGTTTTTTCGATGATTCATTGAGGCTCACTCCGAGTTCCTAGAAGCAGC CAGCAACTTGAGGATAACTACCGATTTGCACATACCAATGTTGAGTCTCTGGTGAACGA GTATGATGATCATGGAGCAGGGATCATCTTATTCGTCCTTACATCTCACTAACCAAGT TTGAAGACAAGACTGTGGCATATACCGAGCCACAATGACCCGTGGCAACATTTAACAGG TTATCCCGGACAACATTTTTGGTATCTGCCCTCCCTTGACCGAAGACACTTCGATTTGTT CCG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005313 unedited</p> <pre> GAGCTTAAGGGTCTCATTTTTGTTACTGTTCCAAAGTACAAAAAATAGAAAATACCC CCAACCTCAACCCACCCCNACAACATTTCCCAACACAATAATTTTTCCAAAACCA CAAACATAAACTGGTCTGGTATTTCCATAAACAGTGCAGCTAAGAAACAGTTTAGAGAA AATTTAACAGGATTCAGATTATATCCATTCTGTCCTCTCGGCCCTGAGAGGTAATAATTC CCATATGGGTCTAGTCTCCCAATGGTTTTCCCATCTCTGATGGAAGAGTCCTTTTAC AAAGTGGTGTGGTACTGCTTTAGAGATCCTCTGTGCCTTCTTCTTCTTGGGTT TTTCTTCTGAATTACAGGGGGTGTAGCTTCTTTGTAGATAGCTAATAAAATCAC TTAATTCACGGCCACCTTCATATTTCTTTGGATTTAGCTTCTTGTGGCTGGAGAGAAAGT ATATGGTAGGAAAACCTCTGACTTCATATGGAGAAGGCACATCATTGGCTGTGGCATCCA TCTTGGCTATGACGATATTTGGGCTTTGCTGAGCTTCTCGCCAAGTTCTTTATACTTGG GCTCCAGGTTCTTACAATGACCACCAAGGGGCATAAAATTCATCAGCACATCTTTAT TTTCATTATTCATATTTCAAAAATTTCTGCTACCACTACCTTACAGGCCCATCAT TGCTCTCTGGGATAGTTTCAGACTTCAGGTATCTCTTCAGATTGCCATCAAAGTAATCCT GCAGGGACCTCTNCAGAGCCTTNCATCACGCGAGAACTCCTCCTGCATGACAAAATTTT CTTCTTAGCAGTTCTGATAAGCACAAACAGGGAATCTCTTCAGCAGTGCTCTTCAAGCCA AAATCAGAAAGTTCATGGCTTAAGGGGTTTGCGC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005313
Insert Size:	2000 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_005313.4](#), [NP_005304.3](#)

RefSeq Size: 3060 bp

RefSeq ORF: 1518 bp

Locus ID: 2923

UniProt ID: [P30101](#)

Cytogenetics: 15q15.3

Domains: thioered

Protein Families: Druggable Genome

Protein Pathways: Antigen processing and presentation

Gene Summary: This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. This protein also functions as a molecular chaperone that prevents the formation of protein aggregates. [provided by RefSeq, Dec 2016]