

Product datasheet for **SC114591**

ERp19 (TXNDC12) (NM_015913) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERp19 (TXNDC12) (NM_015913) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERp19
Synonyms:	AG1; AGR1; ERP16; ERP18; ERP19; hAG-1; hTLP19; PDIA16; TLP19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114591 sequence for NM_015913 edited (data generated by NextGen Sequencing)

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ATGGAGACGCGCCTCGTCTCGGGCCACCTGTTTCTGGGCTTCAGTTTCTGCTCCTC
GTCATCTCTTCTGATGGACATAATGGGCTTGAAAGGGTTTTGGAGATCATATTCATTGG
AGGACACTGGAAGATGGGAAGAAAGAAGCAGCTGCCAGTGGACTGCCCTGATGGTGATT
ATTCATAAATCCTGGTGTGGAGCTTGC AAAGCTCTAAAGCCAAATTTGCAGAATCTACG
GAAATTCAGAACTCTCCATAATTTTGTATGGTAAATCTTGAGGATGAAGAGGAACCC
AAAGATGAAGATTTGAGCCCTGACGGGGTTATATTCCACGAATCCTTTTTCTGGATCCC
AGTGGCAAGGTGCATCCTGAAATCATCAATGAGAATGGAAACCCAGCTACAAGTATTTT
TATGTCAGTGCCGAGCAAGTTGTTGAGGGATGAAGGAAGCTCAGGAAAGGCTGACGGGT
GATGCCTTCAGAAAGAAACATCTTGAAGATGAATTGTAA
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Clone variation with respect to NM_015913.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015913 unedited
 TTGGGATTTGTAATCCGACTTCACTATAGGCGGCCGCAATTCGCACGAGGGGGAAGTA
 GAGGTGTTGTGCTGAGCGGCGCTCGGCGAACTGTGTGGACCGTCTGCTGGGACTCCGGCC
 CTGCGTCCGCTCAGCCCCGTGGCCCCGCGCACCTACTGCCATGGAGACGGCGCTCGTCT
 CGGGGCCACCTGTTTGTGGGCTTCAGTTTCTGCTCCTCGTCATCTCTTCTGATGGACA
 TAATGGGCTTGGAAAGGTTTTGGAGATCATATTCATTGGAGGACTGGAAGATGGGAA
 GAAAGAAGCAGCTGCCAGTGGACTGCCCTGATGGTGATTATTCATAAATCCTGGTGTGG
 AGCTTGCAAAGCTCTAAAGCCCAAATTTGCAGAATCTACGAAATTTCAGAACTCTCCA
 TAATTTTGTATGGTAAATCTTGAGGATGAAGAGGAACCCAAAGATGAAGATTTAGCCC
 TGACGGGGTTATATTCCACGAATCCTTTTTCTGGATCCCAGTGGCAAGGTGCATCCTGA
 AATCATCAATGAGAATGGAAACCCAGCTACAAGTATTTTTATGTCAGTGCCGAGCAAGT
 TGTTCCAGGGGATGAAGGAAGCTCATGATAGGCTGACGGGTGATGCCTTCAGATAGATA
 TCTTGAAGATGAATTGGTACATGAATGTGCCCTTCTTTCATCAGAGTTAGTGTCTGGA
 ANGAAGCAGCAGGAAGGATATTGANGAATCATCTAGAACAATTAGCCGACCAGGAAA
 CCTCATTCTACCTACACTGGAAAGAGCGCTCTACTGTGAAAAGTTCTGCTAACAGAA
 GCTGGTGCATGTTTGGTATCCAGCGGAGAGTGGCAGACTTTCTCTCTTTCTCTC
 TNACCTAATGTCAACTGGCATGGATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015913 unedited
 GTTGAATGCGCCCGCTGNCTANANNCGAAAAATTTTTTTTTTTTTTTTGTAAATGCCAGTT
 CAAAAACAGTTGATGACTTGACAAAATGGCTACACCTAGGGCTGAAGGTTTGAGTTTC
 TCCAACAGTAACAAGGGAAGCATGCTTCCACCTGGAGCCGAGTCCAAGCACACAGCCAG
 TCCTGCACACGCATGCGTGCAAACAGGGAAGCTCAAGCATGAGAAGAGGAAAGAGGCTGT
 AGAAATTTGGGAAGAAGCCACAATTATCCCAGGAGAAAAAGGAAAAACAGGCTGA
 TATCCTTGGTAGGGGTAGAATAACTGATTTACTTAGGATTTATTGTTATTGTTGTTG
 TTGTTGTTTTTAAATGATAAGCTACTTCTGCAATTTAACGTTGTAGAAAAGATGCTACT
 AGTCTCCTTCCACTAAGGTGAGTAAAGTGGGAGGAAATGGGAAAAGACTCAAATACT
 TAAGTGCAGGAGTAAACATCCAAGTGGCTCAAGTTTTGTGTCAGAAAGTTTCATTCTTT
 ACATTCAATGACAAGTTGACATTTAGGTGAGAGGAAAAGGAGAAGAAAGTCTGCCACTC
 TCCGCTGGATCCACAAACATGCAGACCAGCTTCTGTTAGCAGAACTCTCCACAGTGAGA
 GCGCTCCTTTTCAGTGTANGTAGGAATGAGGTTTTCTGGTGGCTTAATTGTTCTAGATGA
 TTCCTCAATATTCCTTNCCTGCTNGCTTCTTTTCAGAACTAACTCTGATGAAAGAAG
 GNGCACATTTCTGTTACCATTATCCTCCAGATGTTTCTTCTGAAAGGCATCACCCGTC
 AGCCTTTTCTGAGCTTCTTTCATCCCTGACAACTTGCTCCGCACTGACATAAAATACTNG
 NAGCCTGGGCTTCCATTTTCATTGAGAATTCAGGATGCCCTGCCACTGGATCANAAAAG
 GATCGGAAAAATACCCCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_015913

Insert Size:

1430 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_015913.2](#), [NP_056997.1](#)

RefSeq Size: 1616 bp

RefSeq ORF: 519 bp

Locus ID: 51060

UniProt ID: [O95881](#)

Cytogenetics: 1p32.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Glutathione metabolism

Gene Summary: This gene encodes a member of the thioredoxin superfamily. Members of this family are characterized by a conserved active motif called the thioredoxin fold that catalyzes disulfide bond formation and isomerization. This protein localizes to the endoplasmic reticulum and has a single atypical active motif. The encoded protein is mainly involved in catalyzing native disulfide bond formation and displays activity similar to protein-disulfide isomerases. This protein may play a role in defense against endoplasmic reticulum stress. Alternate splicing results in both coding and non-coding variants. [provided by RefSeq, Mar 2012]
Transcript Variant: This variant (1) encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.