

Product datasheet for **SC308731**

IRE1 (ERN2) (NM_033266) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRE1 (ERN2) (NM_033266) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRE1
Synonyms:	hIRE2p; IRE1-BETA; IRE1b; IRE2p
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_033266 edited
GAGTGTGATGAGAAGGGCGGGGATCGGCGAGGACTCCAGGCTGGGGTTGCAGGCCAGCC
AGGGCGGAGCCTTCTCCGGGTCGGGCGGGACAGAGCGCTCCCTTGGAGGCCAGGG
ACCTGGCCAGCCGTGCAGCTGCCAGGCGCTATGGCGAGTGCGGTGAGGGGTGAGGCC
GTGGCCCCGGCTGGGGCTCCAGCTCCAGTTCGCGGCGCTGCTGCTCGGGACGCTGAGTCC
ACAGGTTCACTCTCAGGCCAGAGAACCTCCTGCTGGTGTCCACCTTGGATGGAAGTCT
CCACGCACTAAGCAAGCAGACAGGGGACCTGAAGTGGACTCTGAGGGATGATCCCGTCAT
CGAAGGACCAATGTACGTACAGAAATGGCCTTCTCTCTGACCCAGCAGATGGCAGCCT
GTACATCTTGGGACCCAAAAACAACAGGGATTAATGAACTGCCATTACCATCCCTGA
GCTGGTTCATGCCTCTCCCTGCCGAGCTCTGATGGGGTCTTCTACACAGGCCGGAAGCA
GGATGCCTGGTTTGTGGTGGACCCTGAGTCAGGGGAGACCCAGATGACTGACCACAGA
GGTCCCTCCACCCCGCCTCTACATTGGCCGAACACAGTATACGGTCACCATGCATGA
CCCAAGAGCCCCAGCCCTGCGCTGGAACACCACCTACCGCGCTACTCAGCGCCCCCAT
GGATGGCTCACCTGGGAAATACATGAGCCACCTGGCGTCTGCGGGATGGGCCTGCTGCT
CACTGTGGACCCAGGAAGCGGGACGGTGTGTGGACACAGGACCTGGGCGTGCCTGTGAT
GGGCGTACACCTGGCACCAGGACGGCCTGCCAGCTGCCGCATCTCACGCTGGCTCG
AGACACTCTGCATTTCTCGCCCTCCGCTGGGGCCACATCCGACTGCCTGCCTCAGGCC
CCGGGACACAGCCACCCTCTTCTACCTTGGACACCCAGCTGCTAATGACGCTGTATGT
GGGGAAGGATGAACTGGCTTCTATGTCTCTAAAGCACTGGTCCACACAGGAGTGGCCCT
GATGCCTCGTGGACTGACCCTGGCCCCGAGATGGCCCCACCACAGATGAGGTGACACT
CCAAGTCTCAGGAGAGCGAGAGGGCTCACCCAGCACTGCTGTTAGATACCCCTCAGGCAG
TGTGGCCCTCCCAAGCCAGTGGCTGCTCATTGGACACCACGAGCTACCCAGTCCCTGCA
CACCACCATGCTGAGGGTCCATCCACCCTGGGGAGTGGAACTGCAGAGACAAGACCTCC
AGAGAATACCCAGGCCCCAGCCTTCTTCTGGAGCTATTGAGCCTGAGCCGAGAGAACT
TTGGGACTCCGAGCTGCATCCAGAAGAAAAAACCAGACTCTTACTTGGGGCTGGGACC
CCAAGACCTGCTGGCAGTAGCCTCACTGCTGTCTCCTGGGAGGGTGGATTCTCTTTGT
GATGAGGCAGCAACAGCCGAGGTGGTGGAGAAGCAGCAGGAGACCCCTGGCACCTGC



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AGACTTTGCTCACATCTCCCAGGATGCCAGTCCCTGCACTCGGGGGCCAGCCGGAGGAG
 CCAGAAGAGGCTTCAGAGTCCCTCAAAGCAAGCCAGCCACTCGACGACCCTGAAGCTGA
 GCAACTCACCGTAGTGGGGAAGATTTTCCTTCAATCCCAAGGACGTGCTGGGCCGCGGGC
 AGGCGGGACTTTCTGTTTTCCGGGACAGTTTGAGGGACGGGCAGTGGCTGTCAAGCGGT
 CCTCCGAGTGTCTTGGCTGGTTCGGCGGAAGTTCAACTGCTGCAGGAGTCTGACAG
 GCACCCCAACGTGCTCCGCTACTTCTGCACCGAGCGGGACCCAGTTCCTACTACATTGC
 CCTGGAGCTCTGCCGGGCTCCTTGCAGGAGTACGTAGAAAACCCGGACCTGGATCGCGG
 GGGTCTGGAGCCCGAGGTCGTGCTGCAGCAGCTGATGTCTGGCCTGGCCACCTGCACTC
 TTTACACATAGTGCACCGGGACCTGAAGCCAGGAAATATTCTCATCACCGGGCCTGACAG
 CCAGGGCTGGGACAGTGGTGTCTCAGACTTCGGCCTCTGCAAGAAGCTGCCTGCTGG
 CCGCTGTAGCTTCAGCCTCCACTCCGGCATCCCCGGCACGGAAGGCTGGATGGCGCCGA
 GCTTCTGCAGCTCCTGCCACCAGACAGTCTACCAGCGCTGTGGACATCTTCTCTGCAGG
 CTGCGTGTCTACTACGTGCTTCTGGTGGCAGCCACCCCTTTGGAGACAGTCTTTATCG
 CCAGGCAACATCCTCACAGGGGCTCCCTGTCTGGCTCACCTGGAGGAAGAGGTCCACGA
 CAAGGTGGTTGCCGGGACCTGGTTGGAGCCATGTTGAGCCACTGCCGACCCAGCCGCC
 CTCTGCCCCCAGGTGCTGGCCACCCCTTCTTTGGAGCAGAGCCAAGCAACTCCAGTT
 TTCCAGGACGTCACTGACTGGCTGGAGAAGGAGTCCGAGCAGGAGCCCTGGTGGAGGGC
 ACTGGAGGCGGGAGGCTGCGCAGTGGTCCGGGACAACCTGGCACGAGCACATCTCCATGCC
 GCTGCAGACAGATCTGAGAAAGTCCGGTCTATAAGGGGACATCAGTGGCAGACCTGCT
 CCGTGTCTGTGAGGAACAAGAAGCACCCTACAGGGAGCTCCCAGTTGAGGTGCGACAGGC
 ACTCGGCAAGTCCCTGATGGCTTCGTCCAGTACTTCAAAAACCGCTTCCACGGCTGCT
 CCTCCACACGCACCGAGCCATGAGGAGTGCCTCTGAGAGCCTTCTCTGCCCTACTA
 CCCGCCAGACTCAGAGGCCAGGAGGCCATGCCCTGGGGCCACAGGGAGGTGAGGTGGCT
 GGATGCCACACAGATGGTCTCCGTGCTGGCTCACTGAAGAGCTGAGCCTGTGGCTGGCCT
 CAGAATCAGGCTGGGTGCACTGGCTCA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_033266 unedited
 NAAGTTCACTATTGTATACGACTCACTATAGGCGGCCGCGACATCGCCNNGTGTGATGA
 GAAGGGCGGGGATCGGCGAGGACTCCAGGCTGGGGTTGCAGGCCAGCCAGGGCGGAGC
 CTTCTCCGGGTCCGGGCGGGACAGAGCGCTCCCTTGGAGGCGCCAGGGACCTGGCCAGC
 CGTGCAGCTGCCAGGCGCTATGGCGAGTGCGGTCAGGGGTCGAGGCCGTGGCCCCGGC
 TGGGGCTCCAGCTCCAGTTCGCGGCGCTGCTGCTCGGGACGCTGAGTCCACAGGTTCCATA
 CTCTCAGGCCAGAGAACCTCCTGCTGGTGTCCACCTTGGATGGAAGTCTCCACGCACTAA
 GCAAGCAGACAGGGGACCTGAAGTGGACTCTGAGGGATGATCCCGTCATCGAAGGACAA
 TGTACGTACAGAAAATGGCCTTCTCTCTGACCCAGCAGATGGCAGCCTGTACATCTTGG
 GGACCCAAAAACAACAGGGATTAATGAACTGCCATTACCATCCCTGAGCTGGTTCATG
 CCTCTCCCTGCCGAGCTCTGATGGGTCTTCTACACAGGCCGGAAGCAGGATGCCTGGT
 TTGTGGTGGACCCTGAGTCAAGGGAGACCCAGATGACACTGACCACAGAGGGTCCCTCCA
 CCCCCCGCTCTACATTGGCCGAACACAGTATACGGTCACCATGCATGACCCAAGAGCCC
 CAGCCCTGCGCTGGAACACCACCTACCGCCGCTACTCAGCGCCCCCATGGATGGCTCAC
 CTGGGAAATACATGAGCCACCTGGCGTCTGCGGGATGGGCTGCTGCTCACTGTGGACC
 CAGGAGCGGGACGGTGTGTTNACACAAGACCTGGGGCTTGCTGTGATGGGCG

Restriction Sites:

Please inquire

ACCN:

NM_033266

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:	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers this to be a polymorphism and to reflect the natural differences between individuals. This results in the conservative substitution of 1 amino acid.
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_033266.2 , NP_150296.2
RefSeq Size:	3549 bp
RefSeq ORF:	2925 bp
Locus ID:	10595
UniProt ID:	Q76MJ5
Cytogenetics:	16p12.2
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Induces translational repression through 28S ribosomal RNA cleavage in response to ER stress. Pro-apoptotic. Appears to play no role in the unfolded-protein response, unlike closely related proteins.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).