

Product datasheet for **SC211360**

IRE1 (ERN1) (NM_001433) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	IRE1 (ERN1) (NM_001433) Human 3' UTR Clone
Symbol:	IRE1
Synonyms:	hIRE1p; IRE1; IRE1a; IRE1P
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001433
Insert Size:	2000 bp



[View online »](#)

Insert Sequence: >SC211360 3'UTR clone of NM_001433
 The sequence shown below is from the reference sequence of NM_001433. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

```

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CAGCCCCCAGTACTCCAGACGCCCTCTGAGCGAGGGCGGCCCTCTGTTCTGGTGGCCCCAGCTGTGA
CTGAGGGCCTGGTCACCAACAATTAGAGCTTGTATGCCTCCCGCTTTCAGGGAGACCAGGCTTCCAAA
CCAAGTGCCTTGAGCTGCCTGCTCTGCAGCCACAGAGGACAGTGTGACCCAGGAAGTGGGAGAAGT
GGCCCCCTCGTGACCTACAGGAACTGGGAAGATGCTGGCCCCAAAAGCCTTACGGTCATGATGTCTGCA
AAGGAGGGCCTCAGAGACAGCGGAGTAGCACCCAGCCATCTACTGGATAAATTGCTTCAGACTTT
TTAAATTCCTGCTTAATGTCAGTCTACAGGCCCTTCAGGAAGGGAGAGGAGGGAATCGTACATTTTGTCT
TGCCTGCTGGGACAGCTAGGCTGAGATGCACCAAGTACAGCCTTCACTGGAGACCGGAATTGAGAGGTG
GGGGATGCTGAGGAGGGGAGGACGGAGTTCAGAGGGTGTGCTCCTGCAGTGTGAGATTTCTCATTGAT
CACAGATGTGCCAGAGTAGCCAGGTCAGTGAAGTAACTAGTGTCTGCAGAGGCAGCAGGAGCCATGA
GCATGAGGTGTGGCATTAGGGACTGGTCAGCTATGCATGCTGGCAGGTGGGGTGTGTCTGCAGGCTCTC
AGAAATGAAGAGGCTGCTCTGTTCTGGAGGCAGCCGTGGCCAGTGCCAGTGGCCAGAACAGTGGCCTT
TGGTGGGTGTGTCCCGGCCATCTCGGGTGGTGTCTCAGGAGCGCCTGGGGCAAGAGGTAAGAGTTCC
CTGGCCTTCAAGGAGAGCAGCGAAGACCCAGACAGGGGCCAGCCTTCAAGACCAGAGGGAGGCCCGCA
ATGGGACCCTCCTGGTACCAGGAGAAAGCCCTGGGCCAGCGAGTAGGCAGTCAAACCTCCTCGTCCCC
AAGCCCGTGGAAACAAGAGGCTCGTGGTGTGAGTACAGGGCCAGGGTGGTGGCAAGGCCAGGGTACCCTG
GTGCTTCAATGGCCAGCTTTTTTGTCTTGGCAAATTTTAACTAATAATTTTATTACTGTAG
AATGCTATGTCAGCATAAGTAAGCTAAACTTGAAGCTTCTTGTGAAGAATAAATGCAAGATAGAATAC
ATCTTCTATTTTTGTGGTACCAAAAATCACCATCCCCTCAAGAGTGTTCATGTATAGAATTCTCTA
ATGCTGAAGAGTAAAACATTATAGCAACTATGTAAATGTATTGAACAGTATCAAAGAAATAGTCTCT
AAATTGTTGTACCATATTTTTTTTCTAAACTAACATAATTTTTAGCTTTAGTTTCAGTCAAACTT
TGTCTTTTCTCTCCGAGAGCCTTAGAGGTTAAAATGCAATCAGCCTACCGTGAAGGAGATGTTGTCC
ATGTAATTTCTCCAGCCAGTTGGGGATCATTGCAGCTCAGGCCCTGGTGAACCTCAGAGATTCCATTAG
TATTAAGAATGGGATTGTTGAATTTTACTCACAGAGAAATCACTGTTTCTCATGTTGTAAGATGTTTT
CTGTTTGTGATTTGTATCATGGTTACTCATCAAAGCTCTCATTCTGCCTTTGTAGAATTCAGTCCC
TTCTTTTCATCATAGCTAAAGTACTTTTTCCCTACTATTAACGTGATCCTACATCCTTAAATCTCAT
CGATTACCTCACTTAGGCCTTGGAACTTGGCCCTTGGTGGTGTCTTGGCGTCTTCTAAGCAAGGCT
GTGCGTTGTTAGAAACGTGGCCAGACCGCATTTCCTGCTGCTCCCATGCCGATGCCAGGTGGCCTGA
GACAGAGCTCCCATACGGCTGCAAGGTGCTTTACCTGTGGGCTTGGCAGTAACCCAAGAGAGGATCA
GAAGGTGGAGAAGGTGCCACGAGTGATTTAACAGGCCTGCCACAGGGAGTGCCCCAGCCAGCTCGT
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_001433.5](#)

Summary:

This gene encodes the transmembrane protein kinase inositol-requiring enzyme 1. The encoded protein contains two functional catalytic domains, a serine/threonine-protein kinase domain and an endoribonuclease domain. This protein functions as a sensor of unfolded proteins in the endoplasmic reticulum (ER) and triggers an intracellular signaling pathway termed the unfolded protein response (UPR). The UPR is an ER stress response that is conserved from yeast to mammals and activates genes involved in degrading misfolded proteins, regulating protein synthesis and activating molecular chaperones. This protein specifically mediates the splicing and activation of the stress response transcription factor X-box binding protein 1. [provided by RefSeq, Aug 2017]

Locus ID:

2081

MW:

73.2