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Product datasheet for RC215023L3V

IRE1 (ERN1) (NM_001433) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	IRE1 (ERN1) (NM_001433) Human Tagged ORF Clone Lentiviral Particle
Symbol:	IRE1
Synonyms:	hIRE1p; IRE1; IRE1a; IRE1P
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001433
ORF Size:	2931 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC215023).`
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_001433.2
RefSeq Size:	3620 bp
RefSeq ORF:	2934 bp
Locus ID:	2081
UniProt ID:	O75460
Cytogenetics:	17q23.3
Domains:	pkinase, TyrKc, S_TKc, PQQ, PUG
Protein Families:	Protein Kinase, Transmembrane

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Protein Pathways: Alzheimer's disease

MW: 109.6 kDa

Gene 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]

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