

Product datasheet for **MC222523**

Ern2 (NM_012016) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ern2 (NM_012016) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ern2
Synonyms:	Ern1; Ire1; ire1-beta; Ire1b; mlre1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222523 representing NM_012016
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAGACCAGTCCAGAGATTTCAACTGTGGTCTCCTCTCGGTTCTCTGCTGCAGCTTGTGACGTTGC
 TGGGAAACTCGGTCCACAGGTCCAGTCTGTGAGGCCAGAGACCTTCTGTTTGTGTCTACCTTGGACGG
 AAGTCTCCATGCACTGAACAAGCAGACAGGGGACTTGAAGTGGACAGTGAAGGATGACCCCATCATCCAG
 GGCCCAATGTATGTCACAGAAATGGCCTTTCTCTCTGACCCAGCTGACGGCAGCCTGTATGTCTTGGGAA
 CCCAGAAACAACAGGGGCTGATGAAACTGCCATTACCATCCCAGAGCTGGTTCATGCCTCTCCCTGTGCG
 CAGCTCTGATGGTGTCTTCTACACAGGCCGGAAGCAGGATGCCTGGTTTGTAGTGGACCCTGAGTCAGGG
 GAGACTCAGATGACTGACCACAGAAGGCCTCTACTCTCAACTTTTCATTGGCCGAACACAGTACA
 CAGTCTCCATGCATGACCTACGGACCCAGCCCTGCGGTGGAACACAACCTATCGCCGCTACTCAGCACC
 CCTCTGAATGGCTCACCGGAAATACATGAGCCACCTGACATCCTGTGGGATGGCCCTGCTTCTCACT
 GTGGATCCAGGAAGTGAATTGTGCTGTGGACACAGGACCTGGGAGTGCCTGTGACAGGGATTTACACAT
 GGCACCAGGATGGTCTGCACCAGCTGCCCATCTCACACTGGCTCGGGACACCCTACATTTCTTGTCTCT
 CCGCTGGGGCCACATCCGTCTTCTGCCTCCAGCTACCAAGACACAGCCACCCAGTTCTTCTCTTAGAC
 ACCCAGCTTTTGTGACTGTATGTGGGAAAGAAGAAGCTGGGTTCTATGTCTCTAAAGCACTGGTCC
 ACGCTGGGGTGGCCCTCGTGCCCGTGGACTGACCCTGGCACCCATGGACGGTCCCAACAGATGAGGT
 GACTTCAAGTCTCGGGGAGCGAGAGGGCTCACCCAGCACTGCTGTGAGTACCCCTCAGGCAGCGTG
 GCCCTCCCAGCCAGTGGCTACTCATTGGATACCACGAACCTCCCCCGTTCTACACACAACCATGCTGC
 GGTTTCATCCCATCCCAGGAAAGTGTCTGCTGAGACAGGACCTCAGAGGACCTCCATGCTCCACTGT
 CTTTTTGTAGCTCCTAAACCTGAGGAGGAGATCCAGAACTACATCCTGAAGAGAAAGCTTCAGACTCT
 TATCCAGGGCTGGGATCCCAAGACCTGCTAGCAGCTACCTTCACTGCCATCCTCTGGGAGCCTGGGTCC
 TCTACCTGATGAGGCAGCAGCAGAGCCCTCAGCACCTGCTGGCCCTCTGACCTCTCACAGGATGC
 TCAGGGACAGCTCTCAAGGGACATCTTACAGGACCAGAGGAGATTTCAAAGCCCTCAGAGCCAGCCAG
 CCACCTCATGACCCTGAAGCAGGCAGCCACCCGTTGGTGGGAAGATTTCTTCAAACCCCAAGGATGTGC
 TGGGCCGTGGGGCAGGAGGGACTTTTGTTTCCGAGGACAGTTTGGGGGCGGGCAGTAGCTGTGAAGAG
 GCTCCTCCGAGAGTGTCTTGGCTTGGTTCGGCGAGAGGTGCAGCTGCTGCAAGAGTGTGACCGCACCCC
 AACGTGCTTCGCTACTTCTGCACTGAGCATGGTCCCAGTTCCTACTACATTGCCCTGGAGCTCTGCCAGG
 CCTCTTGCAAGAGTACGTGGAGAGCCAGACCTAGATCGCTGGGCCTGGAGCCACCACAGTGTGCA
 GCAGATGATGTCCGGCCTGGCCATCTACATTCCTTACACATAGTACACCGTGACCTAAAGCCAGCCAAC
 ATTCTCATGGCTGGCCCTGACAGCCAGGGCCAAGGCAGAGTGGTCATCTCTGACTTCGGCCTCTGCAAGA
 AGCTACCTGTTGGCCGTTGTAGCTTCACTCTCCATTCTGGTATTTCCCGGCACAGAAGGCTGGATGGCACC
 AGAGCTCTGCAGCTCCCCCAGACAGCCCGACCAGCGCTGTGGATATCTTCTCCGAGGCTGCGTATTT
 TATTACGTGCTTCCGGTGGCAGCCACCCCTTTGGAGAGAGTCTTACCAGAGGCAACATCCTCTCAG
 GGGATCCCTGTCTGGCTCAGCTGCAGGAAGAGACCCATGACAAGGTTGTGGCATTGGACTTAGTGAGAGC
 CATGCTGAGCTTGCTGCCCCAGGATCGCCCTCGGCAGGATGGTACTGGCTCACCCCTCTTTTGGAGC
 AGAGCTAAGGAGCTCCAGTTCTTCCAGGATGTCAGTACTGTTGGAGAAGGAACCAAGATCAGGGGCTC
 TCGTGTCCGGCCTGGAGGCAGGAAGCTACAAGGTGGTCCGGGAAGACTGGCACAAGCACATCTCAGCCCC
 TCTGCAGGCAGATCTGAAAAGGTTCCGCTCATACAAAAGGACATCAGTTCGAGACCTGCTCCGGCCATG
 AGGAACAAGAAGCACCCTACAGGGAGCTCCCAGCTGAGGTGCGCCAGACACTAGGCCAACTTCTGCTG
 GCTTCATTCAGTACTTACACAGCGATTCCCCAGGCTGTTGCTGCACACTACCGTGCCATGAGGACCTG
 CGCCTCTGAGAGCCTCTTCTGCCCTACTACCACAGCTCTGGAAGCCAGGAGGCCAGATGCCACAAG
 AGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_012016
Insert Size:	2736 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:	<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_012016.3 , NP_036146.2
RefSeq Size:	2988 bp
RefSeq ORF:	2736 bp
Locus ID:	26918
UniProt ID:	Q9Z2E3
Cytogenetics:	7 65.53 cM
Gene Summary:	<p>Role in expression of the DDIT3 transcription factor, required for the unfolded-protein response, growth arrest and apoptosis. Has no effect on 28S ribosomal RNA cleavage, unlike the corresponding human protein.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).</p>