

Product datasheet for **MR222188**

Ern2 (NM_012016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ern2 (NM_012016) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR222188 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAGACCAGTCCAGAGATTTCAACTGTGGTCTCCTCTCGGTTCTCTGCTGCAGCTTGTGACGTTGC
 TGGGGAAACTCGGTCCACAGGTCCAGTCTGTGAGCCAGAGAGCCTTCTGTTTGTGTCTACCTTGGACGG
 AAGTCTCCATGCACTGAACAAGCAGACAGGGGACTTGAAGTGGACAGTGAAGGATGACCCCATCATCCAG
 GGCCCAATGTATGTCACAGAAATGGCCTTTCTCTCTGACCCAGCTGACGGCAGCCTGTATGTCTTGGGAA
 CCCAGAAACAACAGGGGCTGATGAAACTGCCATTACCATCCCAGAGCTGGTTCATGCCTCTCCCTGTGCG
 CAGCTCTGATGGTGTCTTCTACACAGGCCGGAAGCAGGATGCCTGGTTTGTAGTGGACCTGAGTCAGGG
 GAGACTCAGATGACTGACCACAGAAGGCCTCTACTCTCAACTTTTCATTGGCCGAACACAGTACA
 CAGTCTCCATGCATGACCTACGGACCCAGCCCTGCGGTGGAACACAACCTATCGCCGCTACTCAGCACC
 CCTCTGAATGGCTCACCGGAAATACATGAGCCACCTGACATCCTGTGGGATGGCCCTGCTTCTCACT
 GTGGATCCAGGAAGTGAATTGTGCTGTGGACACAGGACCTGGGAGTGCCTGTGACAGGGATTTACACAT
 GGCACCAGGATGGTCTGCACCAGCTGCCCATCTCACACTGGCTCGGGACACCCTACATTTCTTGTCTCT
 CCGCTGGGGCCACATCCGTCTTCTGCCTCCAGCTACCAAGACACAGCCACCCAGTTCTTCTCTTAGAC
 ACCCAGCTTTTGTGACTGTATGTGGGGAAAGAAGAAGCTGGGTTCTATGTCTCTAAAGCACTGGTCC
 ACGCTGGGGTGGCCCTCGTGCCCGTGGACTGACCCTGGCACCCATGGACGGTCCCAACAGATGAGGT
 GACTTCAAGTCTCGGGGAGCGAGAGGGCTCACCCAGCACTGCTGTGAGTACCCCTCAGGCAGCGTG
 GCCCTCCCAGCCAGTGGCTACTCATTGGATACCAGAACCTCCCCCGTTCTACACACAACCATGCTGC
 GGTTTCATCCCATCCCAGGAAAGTGTCTGCTGAGACACGAGCCTCAGAGGACCTCCATGCTCCACTGT
 CTTTTTGTAGCTCCTAAACCTGAGGAGGGAGGATCCAGAACTACATCCTGAAGAGAAAGCTTCAGACTCT
 TATCCAGGGCTGGGATCCCAAGACCTGCTAGCAGCTACCTTCACTGCCATCCTCTGGGAGCCTGGGTCC
 TCTACCTGATGAGGCAGCAGCAGAGCCCTTCAACCTGCTGGCCCTCTGACCTCTCACAGGATGC
 TCAGGGACAGCTCTCAAGGGACATCTTACAGGACCAGAGGAGATTTCAAAGCCCTCAGAGCCAGCCAG
 CCACCTCATGACCCTGAAGGGCAGCCACCGTGGTGGGAAAGATTTCTTCAACCCCAAGGATGTGCTGG
 GCCGTGGGGCAGGAGGACTTTTGTTCGAGGACAGTTTGGGGCGGGCAGTAGCTGTGAAGAGGCT
 CCTCCGAGAGTGTTCGCTTGGTTCGGCGAGAGGTGCAGCTGCTGCAAGAGTCTGACCGGCACCCCAAC
 GTGCTTCGCTACTTCTGCACTGAGCATGGTCCCAGTTCCACTACATTGCCTTGGAGCTCTGCCAGGCC
 CCTTGCAAGAGTACGTGGAGAGCCAGACCTAGATCGCTGGGGCCTGGAGCCACCACAGTGTGACAGCA
 GATGATGTCCGGCCTGGCCATCTACATTCCTTACACATAGTACACCGTGACCTAAAGCCAGCCAACATT
 CTCATGGCTGGGCTGACAGCCAGGGCCAAGGCAGAGTGGTATCTCTGACTTCCGGCCTCTGCAAGAAGC
 TACCTGTTGGCCGTTGTAGTTCAGTCTCCATTCTGGTATTCCCGGCACAGAAGGCTGGATGGCACCAGA
 GCTCCTGCAGCTCCCCCAGACAGCCCGACCAGCGCTGTGGATATCTTCTCCGACGGCTGCGTATTTTAT
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 ATCCCTGTCTGGCTCAGCTGCAGGAAGAGACCCATGACAAGGTTGTGGCATTGGACTTAGTGAGAGCCAT
 GCTGAGCTTGTGCCCCAGGATCGCCCTCGGCAGGATGGTACTGGCTCACCCCTCTTTTGGAGCAGA
 GCTAAGGAGCTCCAGTTCTTCCAGGATGTCAGTACTGGTTGGAGAAGGAACAGATCAGGGGCCTCTCG
 TGTCCGGCCTGGAGGCAGGAAGCTACAAGTGGTCCGGGAAGACTGGCACAAGCAGATCTCAGCCCTCT
 GCAGGCAGATCTGAAAAGGTTCCGCTCATACAAAGGGACATCAGTTCGAGACCTGCTCCGGGCCATGAGG
 AACAGAAGCACCCTACAGGGAGCTCCAGCTGAGGTGCCAGACACTAGGCCAACTTCTGCTGGCT
 TCATTAGTACTTACACAGCGATTCCCAGGCTGTTGCTGCACACTCACCGTGCATGAGGACCTGCGC
 CTCTGAGAGCCTTCTCTGCCCTACTACCACCAGCTCTGGAAGCCAGGAGGCCAGATGCCACAAAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222188 protein sequence
 Red=Cloning site Green=Tags(s)

MARPVQRFQLWSPLGFLQLVTLGKLGQPQVSVRPESLLFVSTLDGSLHALNKQTGDLKWTVKDDPIIQ
 GPMYVTEMAFLSDPADGSLYVLGTQKQQLMKLPFTIPELVHASPCCRSSDGVFYTRKQDAWFVVDPESE
 ETQMTLTTEGLSTPQLF IGRTQYTVSMHDLRTPALRWNTTYRRYSAPLLNGSPGKYMSHLTSCGMGLLLT
 VDPGSGIVLWTQDLGVPVTGIYTWHDGLHQLPHLTLARDTLHFLVLRWGHIRLPASSYQDTATQFSSLD
 TQLLMTLYVGKEEAGFYVSKALVHAGVALVPRGLTLAPMDGPTTDEVTLQVSGEREGSPSTAVRYPGSGV
 ALPSQWLLIGYHEPPPVLHTTMLRVHPIPKVSAETRAEDLHAPPVFFELLNLRREDPELHPPEEKASDS
 YPGLGSQDLAATFTAILLGAWVLYLMRQQQSPSAPAGPPDLSDAQGQLSRDILQDQRRFQSPSEPAQ
 PPHDPEGQPTVVGKISFNPKDVLGRGAGTFVFRGQFEGRAVAVKRLRECFGLVREVQLLQESDRHPN
 VLRYFCTEHGPQFHIALELCQASLQEYVESPDLDRWGLEPTTVLQQMMSGLAHLHSLHI VHRDLK PANI
 LMAGPDSQGGRVVISDFGLCKKLPVGRCSFLHSGIPGTEGWMAPELLQLPPDSPTS AVDIF SAGCVFY
 YVL SGGSHPFGESLYRQANILSGDPCLAQLQEE THDKVVALDLVRAML SLLPQDRP SAGWLAHPLFWSR
 AKELQFFQDVSDWLEKEPDQGPLVSALEAGSYKVVREDWHKHISAPLQADLKRFRSYKGTSVRDLLRAMR
 NKKHHYRELPAEVRQTLGQLPAGFIQYFTQRFPRLLLHTHRMRTCASESLFLPYPPALEARRPDATKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

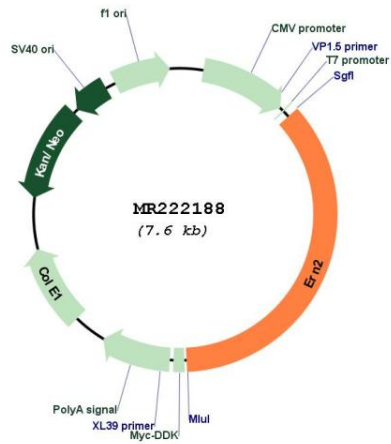
Cloning Scheme:



ACCN: NM_012016

ORF Size:	2733 bp
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.
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_012016.1 , NM_012016.2 , NM_012016.3 , NP_036146.2
RefSeq Size:	2973 bp
RefSeq ORF:	2736 bp
Locus ID:	26918
UniProt ID:	Q9Z2E3
Cytogenetics:	7 65.53 cM
MW:	101.2 kDa
Gene Summary:	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]

Product images:



Circular map for MR222188