

Product datasheet for **MR207416**

Ero1a (NM_015774) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ero1a (NM_015774) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ero1a
Synonyms:	Er; ERO1-L; Ero1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207416 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCCGCGCCTGGGGCTTGCTCGTTGGACTCCTGGGCGTCGTGTGGCTGCTGCGCTTGGCCACGGCG
 AGGAGCGCGGCCGAGACAGCGGCACAGCGCTTCTGCCAGGTTAGTGGTTACTGGACGACTGTAC
 CTGTGATGTCGAGACCATCGATAAGTTTAACTACAGACTTTTCCCAAGACTACAAAAGCTTCTTGAA
 AGTGACTACTTTAGATATTACAAGGTGAAGTTGAAGAAGCCTTGTCTTTCTGGAATGACATCAACCAGT
 GTGGAAGAAGAGACTGTGCCGTCAAACCCTGCCATTCTGATGAAGTTCTGATGGAATTAAGTCTGCGAG
 CTACAAGTATTCTGAGGAAGCCAACCGCATTGAAGAAGGTGAGCAAGCTGAGCGACTTGGAGCCGTGGAT
 GAGTCTCTGAGTGAAGGACCCAGAAAGCTGTACTTCAGTGGACCAAGCATGATGATTTCGTCAGACAGCT
 TCTGCGAAATTGACGATATACAGTCCCCGATGCTGAGTATGTGGACTTACTCCTAACCCCTGAGCGCTA
 CACAGGCTACAAGGGCCAGACGCTTGGAGGATATGGAGTGTCTATGAAGAAAAGTGTTTAAGCCA
 CAGACAATTCAAAGGCCCTTTGGCTTCTGGGCGAGGAAAAAGTAAAGAGAACACATTTTACAAGTGGCTAG
 AAGGCCTCTGTGTAGAAAAGAGAGCATTCTACAGACTTATATCTGGCCTGCACGCAAGCATTAAATGTGCA
 TTTGAGTGCAAGGTATCTTTTACAAGATACTTGGCTGGAAAAGAAATGGGGTCACAATGTACAGAGTTC
 CAGCAGCGCTTTGATGGGATTCTGACTGAAGGAGAAGGCCACGAAGGCTGAGGAACTTGTACTTCTGT
 ACCTGATAGAGTTAAGGGCTCTCTCCAAAGTGCTTCCATTTTTTGGAGCTCCAGATTTTCAGCTCTTAC
 TGGGAATAAAGTTCAAGTGCAGAAAACAAAGCGTTACTTCTGGAGATACTTCATGAAATCAAGTCAAT
 CCTTTGCACCTTCGATGAGAATCTTTTTTGTGGGATAAAAACGAAGCACATAAACTAAAGGAGGACT
 TCCGGCTACACTTTAGGAACATTTCAAGAAATCATGGACTGTGTTGGCTGCTTCAAGTGCCGCTGTGGGG
 CAAGCTTCAGACGCAGGGGCTGGGCACTGCTGAAGATCTTGTTCGAAAAAGTATCGCAAAATATG
 CCGGAAAGCGGACCAAGTTATGAGTTCAGCTAACAGACAAGAAATAGTATCACTGTTTAAATGCATTTG
 GAAGGATTTCCACAAGTGTGAGAGAAGTACAGAACTTCAAGCACTTGTACAGAATGTTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207416 protein sequence
 Red=Cloning site Green=Tags(s)

MGRWGLLVGLLGVVWLLRLGHGEERRPETAQRCFCQVSGYLDCTCDVETIDKFNNYRLFPRLQKLE
 SDYFRYYKVNLLKPCPFWINDINQCGRRDCAVKPCHSDEVPDGIKSASYKYSEEANRIEEGEQAERLGA
 ESLSEETQKAVLQWTKHDDSSDSFCEIDDIQSPDAEYVDLLNPERYTYGKGPDAWRIWVSVIYEENCFK
 QTIQRPLASGRGKSKENTFYNWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQDTWLEKKWGHNVTEF
 QQRFDGILTEGEPRLRNLYFLYLIELRALSKVLPFFERPDFQLFTGNKVQDAENKALLEILHEIKSF
 PLHFDENSSFFAGDKNEAHLKEDFRLHFRNISRIMDCVGCFCRLLWGKLQTQGLGTALKILFSEKLIANM
 PESGPSYEFQLTRQEIVSLFNAFGRISTSVRELENFRHLLQNVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_015774

ORF Size: 1395 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:

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_015774.1](#), [NM_015774.2](#), [NM_015774.3](#), [NP_056589.1](#)
RefSeq Size: 4435 bp

RefSeq ORF: 1395 bp

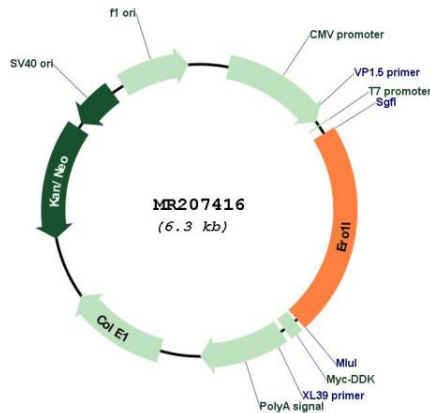
Locus ID: 50527

UniProt ID: [Q8R180](#)

Cytogenetics: 14 C1
MW: 54 kDa

Gene Summary: This gene encodes a member of the endoplasmic reticulum oxidoreductin family. The encoded protein is localized to the endoplasmic reticulum and promotes the formation of disulfide bonds by oxidizing protein disulfide isomerase. This gene may play a role in endoplasmic reticulum stress-induced apoptosis and the cellular response to hypoxia. [provided by RefSeq, Feb 2011]

Product images:



Circular map for MR207416