

## Product datasheet for **MG207416**

### Ero1a (NM\_015774) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ero1a (NM_015774) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ero1a
Synonyms:	Er; ERO1-L; Ero1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207416 representing NM\_015774  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCCGCGCCTGGGGCTTGCTCGTTGGACTCCTGGGCGTCGTGTGGCTGCTGCGCTTGGCCACGGCG  
 AGGAGCGCGGCCGAGACAGCGCACAGCGCTTCTGCCAGGTTAGTGGTTACTGGACGACTGTAC  
 CTGTGATGTCGAGACCATCGATAAGTTTAACTACAGACTTTTCCCAAGACTACAAAAGCTTCTTGAA  
 AGTGACTACTTTAGATATTACAAGGTGAACCTGAAGAAGCCTTGTCTTTCTGGAATGACATCAACCAGT  
 GTGGAAGAAGAGACTGTGCCGTCAAACCCTGCCATTCTGATGAAGTTCCTGATGGAATTAAGTCTGCGAG  
 CTACAAGTATTCTGAGGAAGCCAACCGCATTGAAGAAGGTGAGCAAGCTGAGCGACTTGGAGCCGTGGAT  
 GAGTCTCTGAGTGAGGAGACCCAGAAAGCTGTACTTCAGTGGACCAAGCATGATGATTCTGTCAGACAGCT  
 TCTGCGAAATTGACGATATACAGTCCCCGATGCTGAGTATGTGGACTTACTCCTAACCCCTGAGCGCTA  
 CACAGGCTACAAGGGCCAGACGCTTGGAGGATATGGAGTGTCTATGAAGAAAAGTGTTTTAAGCCA  
 CAGACAATTCAAAAGCCCTTTGGCTTCTGGGCGAGGAAAAAGTAAAGAGAACACATTTTACAAGTGGCTAG  
 AAGGCCTCTGTAGAAAAGAGAGCATTCTACAGACTTATATCTGGCCTGCACGCAAGCATTAAATGTGCA  
 TTTGAGTGCAAGGTATCTTTTACAAGATACTTGGCTGGAAAAGAAATGGGGTCACAATGTACAGAGTTC  
 CAGCAGCGCTTTGATGGGATTCTGACTGAAGGAGAAGGCCACGAAGGCTGAGGAACTTGTACTTCTGT  
 ACCTGATAGAGTTAAGGGCTCTCTCAAAGTGTCTCCATTTTTTGAGCGTCCAGATTTTCAGCTCTTAC  
 TGGGAATAAAGTTCAGGATGCAGAAAACAAGCGTTACTTCTGGAGATACTTCATGAAATCAAGTCAATTT  
 CCTTTGCACCTTCGATGAGAATCTTTTTTGTGGGGTAAAAACGAAGCACATAAACTAAAGGAGGACT  
 TCCGGCTACACTTTAGGAACATTTCAAGAATCATGGACTGTGTTGGCTGCTTCAAGTCCCGCTGTGGGG  
 CAAGCTTCAGACGCAGGGGCTGGGCACTGCTGAAGATCTGTTTTCCGAAAAACTGATCGCAAATATG  
 CCGGAAAGCGGACCAAGTTATGAGTTCAGCTAACAGACAAGAAATAGTATCACTGTTTAAATGCATTTG  
 GAAGGATTTCCACAAGTGTGAGAGAAGTACAGAACTTCAAGGCACTTGTACAGAATGTTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207416 representing NM\_015774  
 Red=Cloning site Green=Tags(s)

MGRWGLLVGLLVVWLLRRLGHGEERRPETAAQRCFCQVSGYLDCTCDVETIDKFNNYRLFPRLQKLE  
 SDYFRYYKVNLLKPCPFWINDINQCGRRDCAVKPCHSDEVPDGIKSASYKYSEEANRIEEGEQAERLGA  
 ESLSEETQKAVLQWTKHDDSSDSFCEIDDIQSPDAEYVDLLLNPERYTYGKGPDAWRIWISVIYEENCFK  
 QTIQRPLASGRGKSKENTFYNWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQDTWLEKKWGHNVTEF  
 QQRFDGILTEGEPRLRNLFLYLYLIELRALSKVLPFFERPDFQLFTGNKVQDAENKALLEILHEIKSF  
 PLHFDENSFFAGDKNEAHLKEDFRLHFRNISRIMDCVGCFCRLWGKLQTQGLTALKILFSEKLIANM  
 PESGSPSYEFQLTRQEIVSLFNAFGRISTSVRELENFRHLLQNVH

**TRTRPLE** - GFP Tag - V

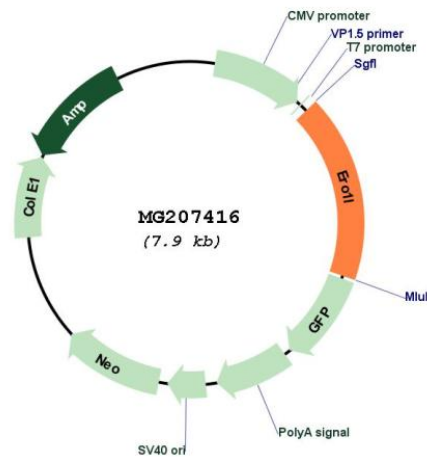
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_015774

ORF Size: 1392 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_015774.2</a></u> , <u><a href="#">NP_056589.1</a></u>
<b>RefSeq Size:</b>	3139 bp
<b>RefSeq ORF:</b>	1395 bp
<b>Locus ID:</b>	50527
<b>UniProt ID:</b>	<u><a href="#">Q8R180</a></u>
<b>Cytogenetics:</b>	14 C1
<b>Gene Summary:</b>	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]