

## Product datasheet for MC207308

### Ier5 (NM\_010500) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ier5 (NM_010500) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ier5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207308 representing NM_010500 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGTTCAAGCTGGAGGCTACCGCATCGTCAGCATCTCCCTGGGCAAGATCTACAACTCGCGGGTCC  
AGCGCGGCGGCATCAAGCTGCACAAGAACCTCTTGGTGTCTGGTGTGCGCAGCGCCCGCAAGTCTA  
CCTGAGTGACCCCTGCCCTGGCCTCTACCTGGCTGGCCCTGCGGGGACCCCGCGGTGCCGCCCTCAG  
CAGCCTGGAGAGCCTGTAGCCGGGCCACCCTCCGGCTGGGAGAGCGCCCGCGCGTCCCGTGTCCACACGCCCGGAGC  
CCTGGCCGGAGCCCGAGCCTCAGCCGAGCCTCAGCCTCAGCGTCCCTCCGTGTGCCACACGCCCGGAGC  
GGGAAGCTCAGAACCGGTGGCCGCGGTGGCCGATCGGGGAAGCTCTCCGGGCGGAGAGGAGGACTCG  
GCGGCAGCTGCTTGGGGCCGCTGGAGCGTCCGCGCGCGCGTCTTCAGGAGGTGGCTCGGACGCGTGCC  
CCGAGGGGCCCCGGGAGTGCGCCGCCCGTGGCGTGTCCCCGGCGGTGGAGGAGCGGTCTCCGAGGA  
CGGGTCCCCCGCGCCACCCGCCCGTGTCCAGGAAGCGTGGCGCAGCGGAGTGGGTGGCGGCCGCGCG  
AGCTGCTCGGCACCCGGCTCTACCCCTCTCAAGAAGCCGCGCCGAACTCGGAGGAGCAGCCAGTACCG  
GCGAGGACGACACCGACGAGGAGATGGAGACGGGAACGTGGCAAACCTCATCAGCATCTTCGGGTCTAG  
CTTCTCGGACTCTACGAAAAGCCCCGAGCGGCCGAGAGGAAGAGGAGCGGAGGAGGCGGCCCG  
GAAGCCCGGAGCCGGGCGAGATCTGCTGCGACAAGCCGGTGTGAGAGACATGAGCCCTGGAGCACAG  
CCATCGTGGCCTT**CGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_010500
Insert Size:	927 bp



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<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_010500.2</a> , <a href="#">NP_034630.1</a>
<b>RefSeq Size:</b>	3272 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	15939
<b>UniProt ID:</b>	<a href="#">O89113</a>
<b>Cytogenetics:</b>	1 66.45 cM
<b>Gene Summary:</b>	Plays a role as a transcription factor. Mediates positive transcriptional regulation of several chaperone gene during the heat shock response in a HSF1-dependent manner. Mediates negative transcriptional regulation of CDC25B expression. Plays a role in the dephosphorylation of the heat shock factor HSF1 and ribosomal protein S6 kinase (S6K) by the protein phosphatase PP2A. Involved in the regulation of cell proliferation and resistance to thermal stress. Involved in the cell cycle checkpoint and survival in response to ionizing radiation. Associates with chromatin to the CDC25B promoter.[UniProtKB/Swiss-Prot Function]