

Product datasheet for **MR204347**

Ier5 (NM_010500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ier5 (NM_010500) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ier5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204347 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGGAGTTCAAGCTGGAGGCTCACCGCATCGTCAGCATCTCCCTGGGCAAGATCTACAACGCGGGTCCAGCGGGCGGCATCAAGCTGCACAAGAACCTCTTGGTGTGTTGGTGTGCGCAGCGCCCGCAAGTCTACCTGAGTGACCCCTGCCCTGGCCTCTACCTGGCTGGCCCTGCGGGGACCCCGCGGGTCCCGCCCTCAGCAGCTGGAGAGCCTGTAGCCGGGCCACCCTCCGGCTGGGGAGAGCCCGCCCGCGGTCCCGCTGCCCGGGCTGGGAGAGCCTCAGCCGACGCTCAGCCTCAGCGTCCCTCCGTGTGCCACACGCCCCGAGCGGGAAGCTCAGAACCAGTGGCCGCGGTGGCCGGATCGGGGAAGCTCTCCGGGGCGGAGAGGAGGACTCGGCGCAGCTGCTTGGGGCCGCTGGAGCGTCCGCGCGCGGCGTCTTCCAGGAGGTGGTCCGACGCGTGGCCCGAGGGGCCCGGGCAGTGCGCCGCCGTGCGGCTGTCCCCGGCGTGGAGGAGCGGTCTCCGAGGACGGGTCCCCCGCGCCACCCGCCCGTGTCCCAGGAAGCGTGGCGCAGCGGGAGTGGGTGGCGGCCGCGAGCTGCTCGGCACCCGGCTCTACCCCTCTCAAGAAGCCGCGCCGAACTCGGAGGAGCAGCCAGTACCCGCGGAGACGACACCGACGAGGAGATGGAGACCGGGAACGTGGCAAACCTCATCAGCATCTTCGGGTCTAGCTTCTCGGACTCCTACGAAAAGCCCCGAGCGGCCGAGAGGAAGAGGAGCGGAGGAGGGCGGCCCGGAAGCCCGGAGCCGGGCAGATCTGCTGCGACAAGCCGGTGTGAGAGACATGAGCCCTGGAGCACAGCCATCGTGGCCTTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA



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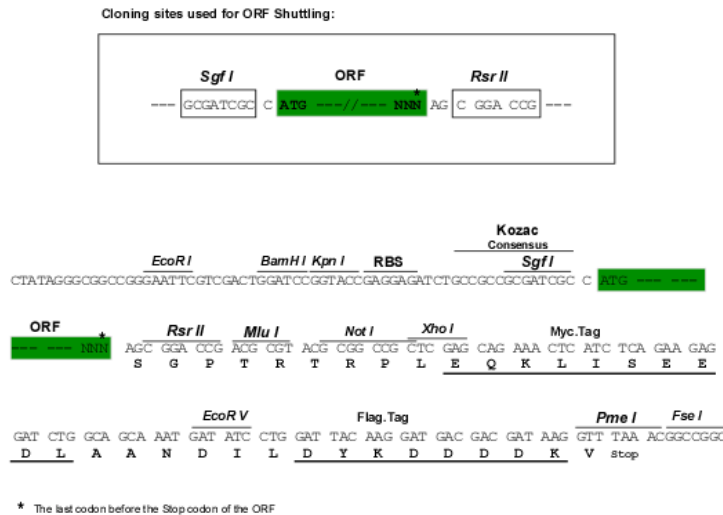
Protein Sequence: >MR204347 protein sequence
Red=Cloning site Green=Tags(s)

```
MEFKLEAHRIVSISLGIYNSRVQRGGIKLHKNLVLSVLR SARQVYVSDPCPLYLAGPAGTPAVPPPQ
QPGEPVAGPPSGWGEPPPPVARAAWPEPEPQPQPQRPSVCHTPGAGSSEPVAAVAGSGEALRGGEEDS
AAAAWGRVERPRAASSGGSDACPEGPRAVRRPCGCPPAVEERSSEDGSPAPPAPCPRKRGAAAGVGGGRA
SCSAPGSTPLKKPRRNSEEQPVTDGEDDTDEEMETGNVANLISIFGSSFSGLLRKSPAGGEEEEAEEGGP
EAAEPGQICCDKPVLRDMSPWSTAIVAF
```

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_010500

ORF Size: 927 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_010500.2](#), [NP_034630.1](#)

RefSeq Size: 3272 bp

RefSeq ORF: 927 bp

Locus ID: 15939

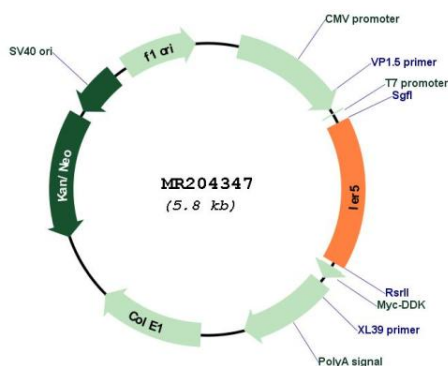
UniProt ID: [O89113](#)

Cytogenetics: 1 66.45 cM

MW: 31.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR204347