

Product datasheet for **MG204347**

Ier5 (NM_010500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ier5 (NM_010500) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ier5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204347 representing NM_010500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCAAGCTGGAGGCTCACCGCATCGTCAGCATCTCCCTGGGCAAGATCTACAACCTCGCGGGTCC
AGCGCGGGCGGCATCAAGCTGCACAAGAACCTCTTGGTGTCTGGTGCTGCGCAGCGCCCGCAAGTCTA
CCTGAGTGACCCCTGCCCTGGCCTCTACCTGGCTGGCCCTGCGGGGACCCCGCGGTGCCGCCCTCAG
CAGCCTGGAGAGCCTGTAGCCGGCCACCCTCCGGCTGGGGAGAGCCGCCCGCGGTGCCCGTGCCG
CCTGGCCGGAGCCCGAGCCTCAGCCGCAGCCTCAGCCTCAGCTCCCTCCGTGTGCCACACGCCCCGGAGC
GGGAAGCTCAGAACCCTGGCCGCGGTGGCCGGATCGGGGAAGCTCTCCGGGGCGAGAGGAGGACTCG
GCGGCAGCTGCTTGGGGCCGCTGGAGCGTCCGCGCGCGGCTTTCAGGAGGTGGCTCGGACGCGTGCC
CCGAGGGGCCCGGGCAGTGCGCCGCCGTGCCGCTGTCCCCGGCCGTGGAGGAGCGGTCTCCGAGGA
CGGGTCCCCCGGCCACCCGCCCGTGTCCCAGGAAGCGTGGCGCAGCGGAGTGGGTGGCGGCCGCGCG
AGCTGCTCGGCACCCGGCTTACCCCTCTCAAGAAGCCGCGCCGGAACCTCGGAGGAGCAGCCAGTACCCG
GCGAGGACGACACCGACGAGGAGATGGAGACCGGGAACGTGGCAAACCTCATCAGCATCTTCGGGTCTAG
CTTCTCGGACTCTACGAAAAGCCCCGAGGCGCCGAGAGGAAGAGGAGCGGAGGAGGGCGGCCCGCCG
GAAGCCCGGAGCCGGGCAGATCTGCTGCGACAAGCCGGTGTGAGAGACATGAGCCCTGGAGCACAG
CCATCGTGGCCTTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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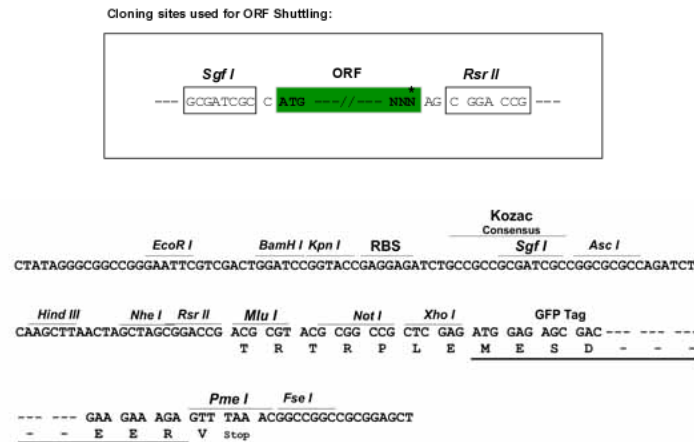
Protein Sequence: >MG204347 representing NM_010500
 Red=Cloning site Green=Tags(s)

MEFKLEAHRIVSISLGIYNSRVQRGGIKLHKLLVSLVLR SARQVYLS DPCPLYL A G P A G T P A V P P P Q
 Q P G E P V A G P P S G W G E P P P P V A R A A W P E P E P Q P Q P Q R P S V C H T P G A G S S E P V A A V A G S G E A L R G G E E D S
 A A A A W G R V E R P R A A S S G G G S D A C P E G P R A V R R P C G C P P A V E E R S S E D G S P A P P A P C P R K R G A A G V G G G R A
 S C S A P G S T P L K K P R R N S E E Q P V T G E D D T D E E M E T G N V A N L I S I F G S S F S G L L R K S P A G G R E E E E A E E G G P
 E A A E P G Q I C C D K P V L R D M S P W S T A I V A F

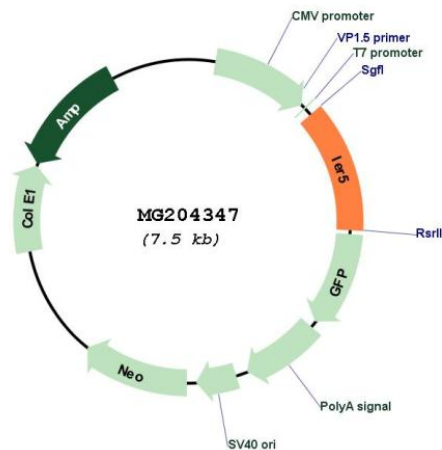
SGP TRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_010500

ORF Size: 924 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_010500.2 , NP_034630.1
RefSeq Size:	2123 bp
RefSeq ORF:	927 bp
Locus ID:	15939
UniProt ID:	O89113
Cytogenetics:	1 66.45 cM
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]