

Product datasheet for **MG202538**

Ier2 (NM_010499) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ier2 (NM_010499) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ier2
Synonyms: AI317238; Ch1; Pip92
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202538 representing NM_010499
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGTACAGAAAGAAGCGCAGCGCATCATGACTCTGTCCGGTATGGAAGATGTACCACTCTCGCATGC
 AGCGAGGTGGCTTGCAGCTCCACCGAGTCTGCAGCTGTCCCTCGTTATGCGCAGCGCTCGAGAGGTCTA
 CCTCTCAGCCAAGGTAGAAGCCACCAGCCGAGTTCGCCCATCCCGCAGGGCTCTTGACCCTCGCCTG
 CACCCGCCGCGGAAGCCGAAGTTGCAGTGGAAGTAGCGTCCCCGAAGCCGTGCAGCCTCCGGAGCCCA
 TGGATACGCAAGAGGAAGTGCTGCGAGTCCAGGAGACCCCTGCGCTCTGTGACCCGCCCCCGCTAGAGT
 CAGCCGCAAGCGCCGGAGCAGCAGCGATTTGAGCGACGGTAGTGATGCCGACTGGTACCAAGCAAGAAG
 GCCCGTCTAGAAGAGGTGGAGGGGGAGGCGACGTCCGGAGGTTCCCGATCGCTGCAGTTCTCCGGCAC
 AAAGCGAAGGTGCCTTCCCTAACCTCGCCCGCTCCTCCAAAGGCGCTTCTCCAGTCTCCTGAACTGTGG
 ACCCGCGTGCCCCGCCGACGCCCCACGTGCGAGGCCAAGCCAGCCTGCCGCCGCGCCGACAATATG
 CTAACGTGCTGGTGGAGCTGTGGTGGCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202538 representing NM_010499
 Red=Cloning site Green=Tags(s)

MEVQKEAQRIMTLSVWKMYHSRMQRGGLRLHRSLLQLSLVMRSAREVYLSAKVEAHQPEFPPSRRALDPRL
 HPPREAEVAVEVASPEAVQPPEPMDTQEEVLRVQETPALCDPPPARYSRKRRSSDLSGSDAGLVPSKK
 ARLEEVEGEATSEVPDRLQLPPAQSEGAFPNLARVLQRRFSSLLNCGPAVPPPTPTCEAKPACRPADNM
 LNVLVRAVVAF

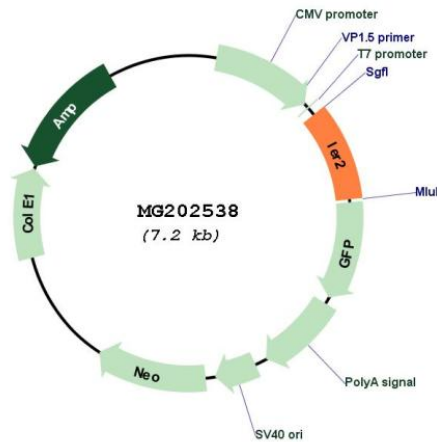
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010499

ORF Size: 663 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_010499.4 , NP_034629.3
RefSeq Size:	3302 bp
RefSeq ORF:	666 bp
Locus ID:	15936
UniProt ID:	P17950
Cytogenetics:	8 41.02 cM
Gene Summary:	DNA-binding protein that seems to act as a transcription factor (By similarity). Involved in the regulation of neuronal differentiation, acts upon JNK-signaling pathway activation and plays a role in neurite outgrowth in hippocampal cells (By similarity). May mediate with FIBP FGF-signaling in the establishment of laterality in the embryo (By similarity). Promotes cell motility, seems to stimulate tumor metastasis (By similarity).[UniProtKB/Swiss-Prot Function]