

Product datasheet for **MR202538**

Ier2 (NM_010499) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ier2 (NM_010499) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ier2
Synonyms: AI317238; Ch1; Pip92
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202538 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTACAGAAAGAAGCGCAGCGCATCATGACTCTGTGGTATGGAAGATGTACCACTCTCGCATGC
AGCGAGGTGGCTTGCAGCTCCACCGAGTCTGCAGCTGTCCCTCGTTATGCGCAGCGCTCGAGAGGTCTA
CCTCTCAGCCAAGGTAGAAGCCACCAGCCGAGTTCGCCCATCCCGCAGGGCTCTTGACCCTCGCCTG
CACCCGCCGCGGAAGCCGAAGTTGCAGTGAAGTAGCGTCCCCGAAGCCGTGCAGCCTCCGGAGCCCA
TGGATACGCAAGAGGAAGTGCTGCGAGTCCAGGAGACCCCTGCGCTCTGTGACCCGCCCCCGCTAGAGT
CAGCCGCAAGCGCCGGAGCAGCAGCGATTTGAGCGACGGTAGTGATGCCGGACTGGTACCAAGCAAGAAG
GCCCGTCTAGAAGAGGTGGAGGGGGAGGCGACGTCGGAGGTTCCCGATCGCTGCAGCTTCTCCGGCAC
AAAGCGAAGGTGCCTTCCCTAACCTCGCCGCGTCTCCAAAGGCGCTTCTCCAGTCTCCTGAACTGTGG
ACCCGCGTGCCTCCGACGCCCCACGTGCGAGGCCAAGCCAGCCTGCCGCCGCGCCGACAATATG
CTCAACGTGCTGGTGGAGCTGTGGTGGCCTTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202538 protein sequence
 Red=Cloning site Green=Tags(s)

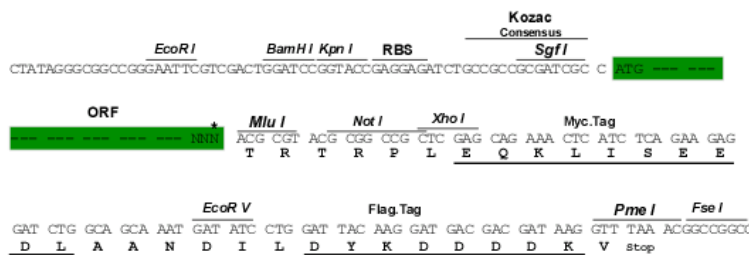
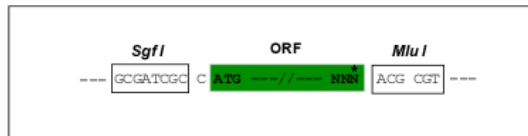
MEVQKEAQRIMTLSVWKMYHSRMQRGGLRLHRSLLQLSLVMRSAREVYLSAKVEAHQPEFPPSRRALDPRL
 HPPREAEVAVEVASPEAVQPPEPMDTQEEVLRVQETPALCDPPPAPVSRKRRSSDLSDGSDAGLVPSKK
 ARLEEVEGEATSEVPDRLQLPPAQSEGAFPNLARVLQRRFSSLLNCGPAVPPPTPTCEAKPACRPADNM
 LNLVLRVVAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010499

ORF Size: 666 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_010499.4](#), [NP_034629.3](#)

RefSeq Size: 1541 bp

RefSeq ORF: 666 bp

Locus ID: 15936

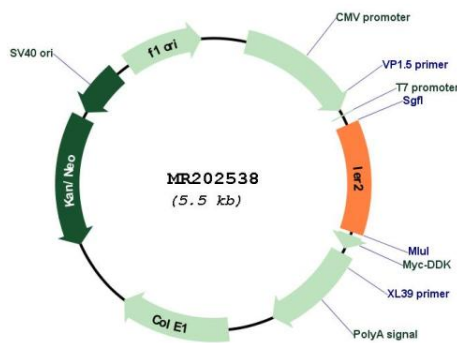
UniProt ID: [P17950](#)

Cytogenetics: 8 41.02 cM

MW: 24.5 kDa

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]

Product images:



Circular map for MR202538