

Product datasheet for **RG209947**

IER2 (NM_004907) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IER2 (NM_004907) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IER2
Synonyms:	ETR101
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209947 representing NM_004907 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCGGTGTGGAAGATGTATCACTCCCGCATGC
AGCGCGGTGGCTGCGGCTGCACCGAGTCTGCAGCTGTCGTTGGTATGCGCAGCGCCCGGAGCTCTA
CCTCTCGCCAAGGTGGAGGCCCTCGAGCCGAGGTGTCGTTGCCGGCCGCCCTCCCTCTGACCCTCGC
CTGCACCCGCCCGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCGACGGTGAGCACCCGTTTCCGG
AGCCAATGGACACGCAGGAGGCCGACAGCCGAGGAGACCTCCGCTGCTGTGCCCGCGCCCGCCAA
AGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAA
GCCCGTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTATCCGAAGTCGCCGATCGCTGCAGCCCCCTC
CGGCGCAAGCGGAGGGCGCCTTTCCCAACTGGCCCGCTCCTGCAGAGGCGCTTCTCCGGCCTCCTGAA
CTGCAGCCCCGCGGCCCTCCGACGGCGCCCGCGTGCAGGCAAGCCCGCTTGCCGCCCGCGGAC
AGCATGCTCAACGTGCTCGTGCGGGCCGTGGTGGCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209947 representing NM_004907
 Red=Cloning site Green=Tags(s)

MEVQKEAQRIMTSLVWKMYHSRMQRGGLRLHRSLLQLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPR
 LHPPREAESTAETATPDGEHPFPEPMDTQEAPTAETSAACAPRPAPKVSRRSSSLSDGGDAGLVPSKK
 ARLEEKEEEEGASSEVADRLQPPPAQAEGAFPNLARVLQRRFSGLLNCSPAAPPTAPPACEAKPACRPAD
 SMLNLVRAVAVAF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004907

ORF Size: 669 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_004907.3](#)

RefSeq Size: 2088 bp

RefSeq ORF: 672 bp

Locus ID: 9592

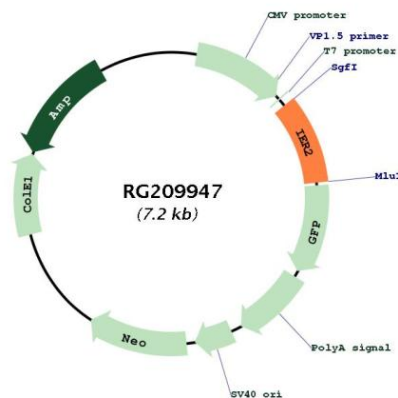
UniProt ID: [Q9BTL4](#)

Cytogenetics: 19p13.13

Protein Families: Transcription Factors

Gene Summary: DNA-binding protein that seems to act as a transcription factor (PubMed:19584537). 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 (PubMed:22120713).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209947