

Product datasheet for RC209947

IER2 (NM_004907) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | IER2 (NM_004907) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | IER2 |
| Synonyms: | ETR101 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC209947 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCGGTGTGGAAGATGTATCACTCCCGCATGC
AGCGCGGTGGCTGCGGCTGCACCGAGTCTGCAGCTGTCGTTGGTATGCGCAGCGCCCGGAGCTCTA
CCTCTCGGCCAAGGTGGAGGCCCTCGAGCCGAGGTGTCGTTGCCGGCCGCCCTCCCTCTGACCCTCGC
CTGCAACCCGCCCGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCGACGGTGAGCACCCGTTTCCGG
AGCCAATGGACACGCAGGAGGCGCGACAGCCGAGGAGACCTCCGCTGCTGTGCCCGCGCCCGCCAA
AGTCAGCCGCAAACGACGACGACGAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAA
GCCCGTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTATCCGAAGTCGCCGATCGCTGCAGCCCCCTC
CGGCGCAAGCGGAGGGCGCCTTTCCCAACCTGGCCCGCTCCTGCAGAGGCGCTTCTCCGGCCTCCTGAA
CTGCAGCCCCGCGGCCCTCCGACGGCGCCGCCGCTGCGAGGCAAGCCCGCTTGCCGCCCGCGGAC
AGCATGCTCAACGTGCTCGTGCGGGCCGTGGTGGCCTTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209947 protein sequence
 Red=Cloning site Green=Tags(s)

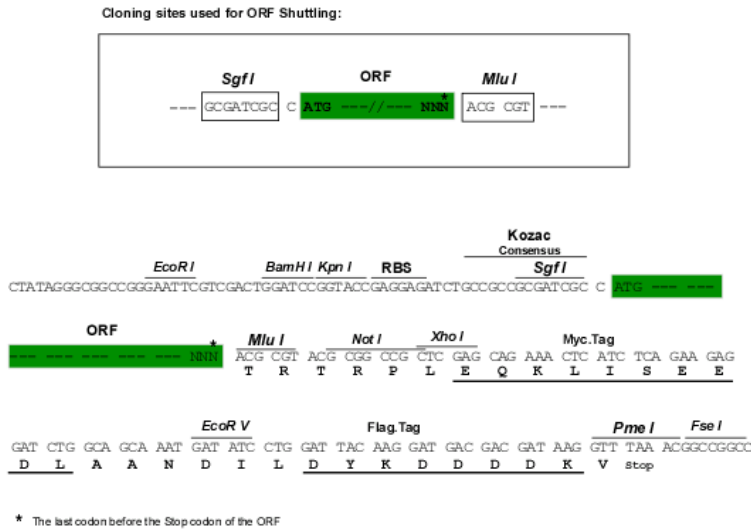
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MEVQKEAQRIMTLSVWKMYHSRMQRGGLRLHRSLLQLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPR
LHPPREAESTAETATPDGEHPFPEPMDTQEAPTAETSAACAPRPAPKVSRRKSSSLSDGGDAGLVPSKK
ARLEEKEEEEEGASSEVADRLQPPPAQAEGAFPNLARVLQRRFSGLLNCSAPAAPTAPPACEAKPACRPAD
SMLNLVRAVAVF
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6363_h12.zip

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](#)

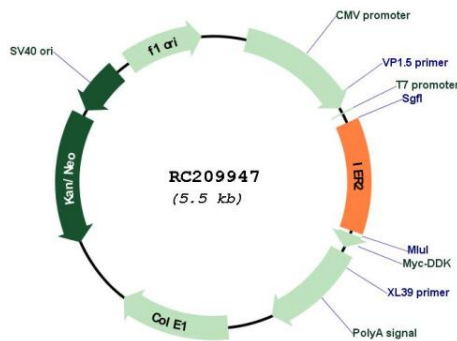
Cytogenetics: 19p13.13

Protein Families: Transcription Factors

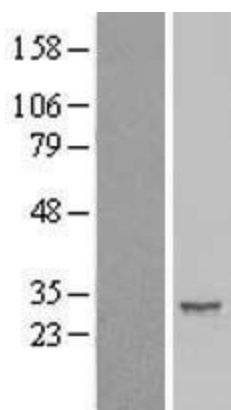
MW: 24.2 kDa

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 RC209947



Western blot validation of overexpression lysate (Cat# [LY417662]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209947 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).