

Product datasheet for **RC233848**

ILF2 (NM_001267809) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ILF2 (NM_001267809) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ILF2
Synonyms: NF45; PRO3063
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233848 representing NM_001267809
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCTTTCCCGGGTCAAGCCAGCACCTGATGAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATC
AGGACCTGGCTCCCAATTCTGCTGAACAGGCATCTATCCTTTCTGGTGACAAAAATAACAATGTGAT
TGATAATCTGATTGTGGCTCCAGGGACATTTGAAGTGCAAATTGAAGAAGTTCGACAGGTGGGATCCTAT
AAAAAGGGGACAATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTGCCAACGT
TGAAGCTGTTGCTGCCCTGGGAACAAAGTCGTGAAAGCCTAAGAGCACAGGATCCTTCTGAAGTTTT
AACCATGCTGACCAACGAACTGGCTTTGAAATCAGTTCTTCTGATGCTACAGTGAAGATTCTCATTACA
ACAGTGCCACCCAATCTTCGAAACTGGATCCAGAACTCCATTTGGATATCAAAGTATTGCAGAGTGCCCT
TAGCAGCCATCCGACATGCCCGCTGGTTCGAGGAAAATGCTTCTCAGTCCACAGTTAAAGTTCTCATCAG
ACTACTGAAGGACTTGAGGATTCGTTTTCTGGCTTTGAGCCCTCACACCCTGGATCCTTGACCTACTA
GGCCATTATGCTGTGATGAACAACCCACCAGACAGCCTTTGGCCCTAAACGTTGCATACAGGCGCTGCT
TGCAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTGAGTGGGTATCACTGACCCTGTGAGAGTGGCAA
CTTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGTCTGCTATACAGCTCAGACTCTCGTC
CGAATCCTCTACATGGTGGCTTTAGGAAGATCCTTGGCCAGGAGGGTATGCCAGCTATCTTGCTGCTG
AAATATCTACCTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAGCCACCAGAGAAGAA
GGAAGGAGAGGAAGAAGAGGAGAATACAGAAGAACCACCTCAAGGAGAGGAAGAAGAAAGCATGGAACT
CAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC233848 representing NM_001267809
Red=Cloning site Green=Tags(s)

MAFPRVKPAPDETSFSEALLKRNQDLAPNSAEQASILSLVTKINNVINDNLIVAPGTFEVQIEEVQVGSY
 KKGTMTTGHNVDLVLKILPTLEVAALGNKVVESLRAQDPSEVL TMLTNETGFEISSDATVKILIT
 TVPPNLRKLDPELHLDIKVLQSALAAIRHARWFEENASQSTVKVLIRLLKDLRIRFPGFPELTPWILDLL
 GHYVMNPNTRQPLALNVAYRRCLQILAAGLFLPGSVGITDPCESGNFRVHTVMTLEQQDMVCYTAQTLV
 RILSHGGFRKILGQEGDASYLASEISTWDGVIVTPSEKAYEKPPKEKEEEEEENTEPPQEEEEESMET
 QE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001267809

ORF Size: 1056 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_001267809.1](#), [NP_001254738.1](#)

RefSeq Size: 1953 bp

RefSeq ORF: 1059 bp

Locus ID: 3608

UniProt ID: [Q12905](#)

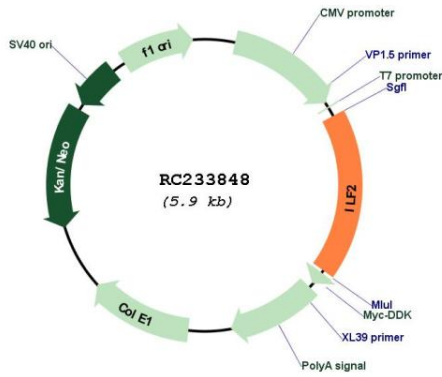
Cytogenetics: 1q21.3

Protein Families: Druggable Genome, Transcription Factors

MW: 39.4 kDa

Gene Summary: The protein encoded by this gene is a transcription factor required for T-cell expression of the interleukin 2 gene. It also binds RNA and is an essential component for encapsidation and protein priming of hepatitis B viral polymerase. The encoded 45 kDa protein (NF45, ILF2) forms a complex with the 90 kDa interleukin enhancer-binding factor 3 (NF90, ILF3), and this complex has been shown to affect the redistribution of nuclear mRNA to the cytoplasm, to repair DNA breaks by nonhomologous end joining, and to negatively regulate the microRNA processing pathway. Knockdown of NF45 or NF90 protein retards cell growth, possibly by inhibition of mRNA stabilization. Alternative splicing results in multiple transcript variants. Related pseudogenes have been found on chromosomes 3 and 14. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC233848