

Product datasheet for **RG233848**

ILF2 (NM_001267809) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ILF2 (NM_001267809) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ILF2
Synonyms:	NF45; PRO3063
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233848 representing NM_001267809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCCTTTCCCGGGTCAAGCCAGCACCTGATGAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATC
AGGACCTGGCTCCCAATTCTGCTGAACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTGAT
TGATAATCTGATTGTGGCTCCAGGGACATTTGAAGTGCAAATTGAAGAAGTTCGACAGGTGGGATCCTAT
AAAAAGGGGACAATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTGCCAACGT
TGAAGCTGTTGCTGCCCTGGGAACAAAGTCGTGGAAGCCTAAGAGCACAGGATCCTTCTGAAGTTTT
AACCATGCTGACCAACGAACTGGCTTTGAAATCAGTTCTTCTGATGCTACAGTGAAGATTCTCATTACA
ACAGTGCCACCCAATCTTCGAAACTGGATCCAGAACTCCATTTGGATATCAAAGTATTGCAGAGTGCCCT
TAGCAGCCATCCGACATGCCCGCTGGTTCGAGGAAATGCTTCTCAGTCCACAGTTAAAGTTCTCATCAG
ACTACTGAAGGACTTGAGGATTCGTTTTCTGGCTTTGAGCCCCCTCACACCCTGGATCCTTGACCTACTA
GGCCATTATGCTGTGATGAACAACCCACCAGACAGCCTTTGGCCCTAAACGTTGCATACAGGCGCTGCT
TGCAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTCACTGAGGATCACTGACCCCTGTGAGAGTGGCAA
CTTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGTCTGCTATACAGCTCAGACTCTCGTC
CGAATCCTCTCATGTTGGCTTTAGGAAGATCCTTGGCCAGGAGGGTGATGCCAGCTATCTTGCTTCTG
AAATATCTACCTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAGCCACCAGAGAAGAA
GGAAGGAGAGGAAGAAGAGGAGAATACAGAAGAACCACCTCAAGGAGAGGAAGAAGAAAGCATGGAACT
CAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233848 representing NM_001267809
 Red=Cloning site Green=Tags(s)

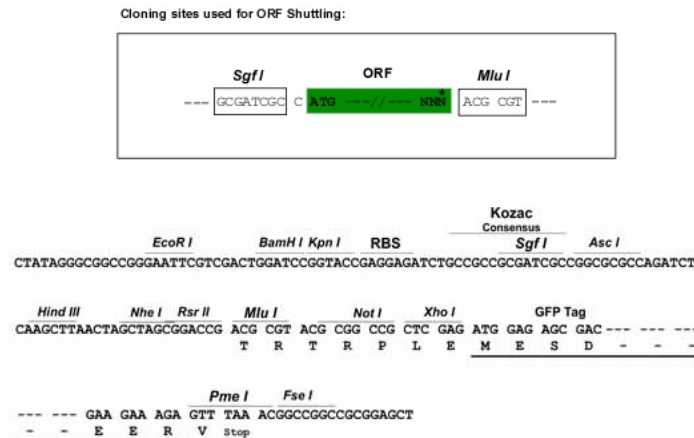
MAFPRVKPAPDETSFSEALLKRNQDLAPNSAEQASILSLVTKINNVIDNLIVAPGTFEVQIEEVRQVGSY
 KKGTMTTGHNVDLVVILKILPTLEAVAALGNKVVESLRAQDPSEVL TMLTNETGFEISSDATVKILIT
 TVPPNLRKLDPELHLDIKVLQSALAAIRHARWFEENASQSTVKVLIRLLKDLRIRFPGFEP LTPWILDLL
 GHYAVMNNPTRQPLALNVAYRRCLQILAAGLFLPGSVGITDPCESGNFRVHTVMTLEQQDMVCYTAQTLV
 RILSHGGFRKILQEGDASYLASEISTWDGVIVTPSEKAYEKPPEKKEGEEEEENTEPPQGEESMET
 QE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



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

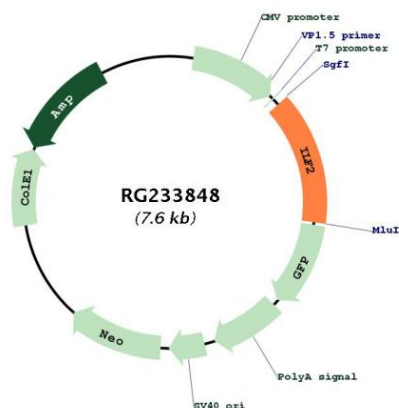
UniProt ID: [Q12905](#)

Cytogenetics: 1q21.3

Protein Families: Druggable Genome, Transcription Factors

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 RG233848