

## Product datasheet for SC126956

### ILF2 (NM\_004515) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ILF2 (NM_004515) Human Untagged Clone
Tag:	Tag Free
Symbol:	ILF2
Synonyms:	NF45; PRO3063
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126956 sequence for NM_004515 edited (data generated by NextGen Sequencing)

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ATGAGGGGTGACAGAGGCCGTGGTCGTGGTGGGCGCTTTGGTTCCAGAGGAGGCCAGGA
GGAGGGTTCAGGCCCTTTGTACCACATATCCCATTTGACTTCTATTTGTGTGAAATGGCC
TTTCCCGGGTCAAGCCAGCACCTGATGAACTTCCTTCAGTGAGGCCTTGCTGAAGAGG
AATCAGGACCTGGCTCCCAATTCTGCTGAACAGGCATCTATCCTTTCTCTGGTGACAAA
ATAAACAAATGTGATTGATAATCTGATTGTGGCTCCAGGGACATTTGAAGTGCAAATTGAA
GAAGTTCGACAGGTGGGATCCTATAAAAAGGGGACAATGACTACAGGACACAATGTGGCT
GACCTGGTGGTGATACTCAAGATTCTGCCAACGTTGGAAGCTGTTGCTGCCCTGGGGAAC
AAAGTCGTGAAAGCCTAAGAGCACAGGATCCTTCTGAAGTTTTAACCATGCTGACCAAC
GAAACTGGCTTTGAAATCAGTTCTTCTGATGCTACAGTGAAGATTCTCATTACAACAGTG
CCACCCAATCTTCGAAAAGTGGATCCAGAACTCCATTTGGATATCAAAGTATTGCAGAGT
GCCTTAGCAGCCATCCGACATGCCCGCTGGTTCGAGGAAAATGCTTCTCAGTCCACAGTT
AAAGTTCTCATCAGACTACTGAAGGACTTGAGGATTTCGTTTTCTGGCTTTGAGCCCTC
ACACCCTGGATCCTTGACCTACTAGGCCATTATGCTGTGATGAACAACCCACCAGACAG
CCTTTGGCCCTAAACGTTGCATACAGGCCTGCTTGCAGATTCTGGCTGCAGGACTGTTCT
CTGCCAGGTTTCAGTGGGTATCACTGACCCTGTGAGAGTGGAACCTTTAGAGTACACACA
GTCATGACCCTAGAACAGCAGGACATGGTCTGCTATACAGCTCAGACTCTCGTCCGAATC
CTCTCACATGGTGGCTTTAGGAAGATCCTTGCCAGGAGGGTGATGCCAGCTATCTTGCT
TCTGAAATATCTACCTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAG
CCACCAGAGAAGAAGGAAGGAGAGGAAGAAGAGGAGAATACAGAAGAACCACCTCAAGGA
GAGGAAGAAGAAAGCATGGAAGCTCAGGAGTGA

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Clone variation with respect to NM\_004515.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004515 unedited</p> <pre>AGATTTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGAAGGGCGGTTG GTGCGGCCTCCATTGTTTCGTGTTTTAAGGCGCCATGAGGGGTGACAGAGGCCGTGGTCTG GGTGGGCGCTTTGGTCCAGAGGAGGCCAGGAGGAGGGTTCAGGCCCTTTGTACCACAT ATCCCATTTGACTTCTATTTGTGTGAAATGGCCTTTCCCCGGGTCAAGCCAGCACCTGAT GAAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATCAGGACCTGGCTCCCAATCTGCT GAACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTGATTGATAATCTGATT GTGGCTCCAGGGACATTTGAAGTGCAAATTTGAAGAAGTTTCGACAGTGGGATCCTATAAA AAGGGGACAATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTG CCAACGTTGGAAGCTGTTGCTGCCCTGGGGAACAAAGTCGTGAAAGCCTAAGAGCACAG GATCCTTCTGAAGTTTTAACCATGCTGACCAACGAAACTGGCTTTGAAATCAGTCTTCT GATGCTACAGTGAAGATTCTCATTACAACAGTGCCACCCAATCTTCGAAAAGTGGATCCA GAACTCCATTTGGATATCAAAGTATTGGCAGAGTGCCTTAGCAGCCATCCGACATGCCCC CTGGTTTCGAGGAAAATGCTTCTCAGTCCCAGNTTAAAGTTCTCATCAGACTACTGAAGGA CTNGAAGGATNCGNTNTCTGGCTTTGAGCCCCCACCACCCTGGATCCTTTGACCTACTA NGNCATTATGCTGTGATGAACNACCCACCAGAAAGNCTTTGGCCCCCTAACGTGATACNA GGCTGCTTGAGATCTGCTGGCANGACTGCCTGCACANGTTCAAGGGGATCACATGAN CTGGGGAGAAGGCACTTTTA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004515 unedited</p> <pre>GTACCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGCCCTACTAGGAAG TACTTTAATAGTTTTTCTTAGAAAAAAATTTCCAGACACTTAACATTTACAACATTTTC AACAGCAAAGTATTAGTTGAGAGAGGGGTTTTCCAGGAGTTGGAGATTATAGAATATTAGG AAGAAATGTTGGTATCCTCCATTATAGATGGATGGCATAGGTCACAAATGGGAGACTGGC AGCTAAGCCAATATCAAACCCAGTGAATGACTTCTATGGAGTTTACTTTTCTTCTCT GCTATCTTCCCTATCCCACGAAATGTCTGTACCATGTAAAGCCCAGTAGCAGGCAGCT TAGGCTCCAGTCTTCCCCCTTGGGTAGGAAAAGGAGTGAAGAGAATGTCACTCCTGAGTT TCCATGCTTTCTTCTCTCCTTCTCCTTGGAGTGGGTCTTCTGATTCTCCTCTTCTCTCT CCTTCTTCTTCTCTGGTGGCTTCTCATAAGCCTTTTCTGAAGGTGTTACTATCACTCCA TCCCAGGTAGATATTTCAGAAGCAAGATAGCTGGCATCACCTCCTGGCCAAGGATCTTC CTAAAGCCACCATGTGAGAGGATTCGGACGAGAGTCTGAGCTGTATAGCAGACCATGTCC TGCTGTTCTAGGGTCATGACTGTGTACTCTAAAGTTGCCACTCTCACAGGGGTGAGT ATACCCACTGAACCTGGCANGAACAGTCTGCAGCCAGAATCTGCAAGCAGCGCCTGTAT GCAACGTTTAGGGCCAAAGGCTGTCTGGTGGGNTNGTTCATCACAGCATAATGGCCTAN TANGTCAGGGATCCANGGTGTGAGGGGCTCANAGCCANGAAAACGAATCCTCCAGTCCTT CAGTAGTCTGT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004515
<b>Insert Size:</b>	1650 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_004515.2](#), [NP\\_004506.2](#)

**RefSeq Size:** 1637 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 3608

**UniProt ID:** [Q12905](#)

**Cytogenetics:** 1q21.3

**Domains:** DZF

**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]

Transcript Variant: This variant (1) encodes the longer isoform (1).