

## Product datasheet for **SC320598**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_004515.2  
 GCGGCCTCCATTGTTTCGTGTTTTAAGGCGCCATGAGGGGTGACAGAGGCCGTGGTCGTGG  
 TGGGCGCTTTGGTTCCAGAGGAGGCCAGGAGGAGGGTTCAGGCCCTTTGTACCACATAT  
 CCCATTTGACTTCTATTTGTGTGAAATGGCCTTTCCCGGGTCAAGCCAGCACCTGATGA  
 AACTTCCTTCAGTGAGGCCTTGTGAAGAGGAATCAGGACCTGGCTCCCAATTCTGCTGA  
 ACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTATTGATAATCTGATTGT  
 GGCTCCAGGGACATTTGAAGTGCAAATGAAGAAGTTCGACAGGTGGGATCCTATAAAAA  
 GGGGACAATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTGCC  
 AACGTTGGAAGCTGTTGCTGCCCTGGGGAACAAAGTCGTGAAAGCCTAAGAGCACAGGA  
 TCCTTCTGAAGTTTTAACCATGCTGACCAACGAACTGGCTTTGAAATCAGTTCTTCTGA  
 TGCTACAGTGAAGATTCTCATTACAACAGTGCCACCCAATCTTCGAAAAGTGGATCCAGA  
 ACTCCATTTGGATATCAAAGTATTGCAGAGTGCCTTAGCAGCCATCCGACATGCCCGCTG  
 GTTCGAGGAAAATGCTTCTCAGTCCACAGTTAAAGTTCATCAGACTACTGAAGGACTT  
 GAGGATTCGTTTTCTGGCTTTGAGCCCTCACACCCTGGATCCTTGACCTACTAGGCCA  
 TTATGCTGTGATGAACAACCCACCAGACAGCCTTTGGCCCTAAACGTTGCATACAGGCG  
 CTGCTTGACAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTCAAGTGGGTATCACTGACCC  
 CTGTGAGAGTGGCAACTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGT  
 CTGCTATACAGCTCAGACTCTCGTCCGAATCCTCTCACATGGTGGCTTTAGGAAGATCCT  
 TGGCCAGGAGGTGATGCCAGCTATCTTGCTTCTGAAATATCTACCTGGGATGGAGTGAT  
 AGTAACACCTTCAGAAAAGGCTTATGAGAAGCCACCAGAGAAGAAGGAAGGAGAGGAAGA  
 AGAGGAGAATACAGAAGAACCACCTCAAGGAGAGGAAGAAGAAAGCATGGAACTCAGGA  
 GTGACATTCCTTCACTCCTTTTCTACCAAGGGGGAAGACTGGAGCCTAAGCTGCCTG  
 CTACTGGGCTTTACATGGTGACAGACATTTCCGTGGGATAGGGAAGATAGCAGGAAGAAA  
 AGTAAACTCCATAGAAGTGTCTATTCCACTGGGTTTTGATATTGGCTTAGCTGCCAGTCTC  
 CCATTTGTGACCTATGCCATCCATCTATAATGGAGGATACCAACATTTCTTCTAATATT  
 CTATAATCTCCAACCTCTGAAAACCCCTCTCTCAACTAATACTTTGCTGTTGAAATGTTG  
 TGAATGTAAAGTGTCTGGAATTTTTTTTTCTAAGAAAAACTATTAAAGTACTTCTCTAG  
 TAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004515

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_004515.2</a></u> , <u><a href="#">NP_004506.2</a></u>
<b>RefSeq Size:</b>	1637 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	3608
<b>UniProt ID:</b>	<u><a href="#">Q12905</a></u>
<b>Cytogenetics:</b>	1q21.3
<b>Domains:</b>	DZF
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>