

Product datasheet for **SC332881**

ILF2 (NM_001267809) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ILF2 (NM_001267809) Human Untagged Clone
Tag: Tag Free
Symbol: ILF2
Synonyms: NF45; PRO3063
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332881 representing NM_001267809.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCCTTCCCGGGTCAAGCCAGCACCTGATGAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAAT
CAGGACCTGGCTCCCAATTCTGCTGAACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTG
ATTGATAATCTGATTGTGGCTCCAGGGACATTTGAAGTGCAAATTGAAGAAGTTCGACAGGTGGGATCC
TATAAAAAGGGGACAATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTGCCA
ACGTTGGAAGCTGTTGCTGCCCTGGGGAACAAAGTCGTGAAAGCCTAAGAGCACAGGATCCTTCTGAA
GTTTTAACCATGTGACCAACGAACTGGCTTTGAAATCAGTTCTCTGATGCTACAGTGAAGATTCTC
ATTACAACAGTGCCACCCAATCTTCGAAAACCTGGATCCAGAACTCCATTTGGATATCAAAGTATTGCAG
AGTGCCTTAGCAGCCATCCGACATGCCCGCTGGTTCGAGGAAAATGCTTCTCAGTCCACAGTTAAAGTT
CTCATCAGACTACTGAAGGACTTGAGGATTCGTTTTCTGGCTTTGAGCCCTCACACCCTGGATCCTT
GACCTACTAGGCCATTATGCTGTGATGAACAACCCACCAGACAGCCTTTGGCCCTAAACGTTGCATAC
AGGCGCTGCTTGCAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTCAAGTGGGTATCACTGACCCCTGT
GAGAGTGGCAACTTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGTCTGTATACAGCT
CAGACTCTCGTCCGAATCCTCTCACATGGTGGCTTTAGGAAGATCCTTGCCAGGAGGGTATGCCAGC
TATCTTGCTTCTGAAATATCTACCTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAG
CCACCAGAGAAGAAGGAAGGAGAGGAAGAAGAGGAGAATACAGAAGAACCACCTCAAGGAGAGGAAGAA
GAAAGCATGGAACCTCAGGAGTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001267809
Insert Size: 1059 bp
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).



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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:	<ol style="list-style-type: none">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
RefSeq Size:	1953 bp
RefSeq ORF:	1059 bp
Locus ID:	3608
UniProt ID:	Q12905
Cytogenetics:	1q21.3
Protein Families:	Druggable Genome, Transcription Factors
MW:	38.9 kDa
Gene Summary:	<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 (2) uses an alternate splice site in its 5' UTR and uses an in-frame downstream start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1.</p>