

## Product datasheet for **SC310057**

### ILF3 (NM\_012218) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ILF3 (NM_012218) Human Untagged Clone
Tag:	Tag Free
Symbol:	ILF3
Synonyms:	CBTF; DRBF; DRBP76; MMP4; MPHOSPH4; MPP4; MPP4110; NF-AT-90; NF90; NF90a; NF90b; NF90c; NF90ctv; NF110; NF110b; NFAR; NFAR-1; NFAR-2; NFAR2; NFAR90; NFAR110; TCP80; TCP110
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_012218 edited

```

CCGGCGCGCGCCTGCCGCCCGCCGCTCGCCCCGGTCCGGACTCCTCCTCCTCCTCTT
CTCGCCATTGCAGTTGGACCCAGCAGCCCGCGCGCACCCGCTGGCTTTTGGGGGAGAC
CCCGCGGGCTGTGGCAGGAGGGCGGGCGGGCTGCGGTGCGAAGAAGGGGACGCCGA
CAAGAGTTGAAGTATTGATAACACCAAGGAACTCTATCACAATTTGAAAAGATAAGCAA
AGTTTGTATTTCCAGACTACAGAAGAAGTAAAAATGCGTCCAATGCGAATTTTTGTGAA
TGATGACCGCCATGTGATGGCAAAGCATTCTTCCGTTTATCCAACACAAGAGAGCTGGA
GGCAGTCCAGAACATGGTGTCCACACGAGCGGGCGCTCAAAGCTGTGTCCGACTGGAT
AGACGAGCAGGAAAAGGGTAGCAGCGAGCAGGAGTCCGATAACATGGATGTGCCCCC
AGAGGACGACAGTAAAGAAGGGGCTGGGGAACAGAAAGCAGGAGCACATGACCAGAACCT
GCGGGGAGTGATGCGGGTGGCCCTGGTGGCAAAGGGCCTCCTACTCAAGGGGGACTTGA
TCTGGAGCTGGTGTGTGTAAGGAGAAGCCACAACCGCCCTCCTGGACAAGGTGGC
CGACAACCTGGCCATCCAGCTTGTGTGTAACAGAAGACAAGTACGAAATACTGCAATC
TGTCGACGATGCTGCGATTGTGATAAAAAACAAAAAGAGCCTCCATTGTCCCTGACCAT
CCACCTGACATCCCTGTTGTGTCAGAGAAGAAATGGAGAAAGTATTAGCTGGAGAAAGCT
ATCAGTCAACGACCCCCGGACGTTCTGGACAGGCAGAAATGCCTTGCTGCCTTGCGGTC
CCTCCGACACGCCAAGTGGTCCAGGCCAGAGCCAACGGGCTGAAGTCTTGTGTGCTATTGT
GATCCGGGTCTTGAGGGACCTGTGCACTCGCGTGCCACCTGGGGTCCCCTCCGAGGCTG
GCCTCTCGAGCTCCTGTGTGAGAAATCCATTGGCAGGCCAACAGACCGATGGGTGCTGG
CGAGGCCCTGCGGAGAGTGTGGAGTGCCTGGCGTCGGGCATCGTGATGCCAGATGGTTC
TGGCATTATGACCCTTGTAAGAAAGAAGCCACTGATGCTATTGGGCATCTAGACAGACA
GCAACGGGAAGATATCACACAGAGTGCAGCAGCAGCACTGCGGCTCGCTGCCTTCGGCCA
GCTCCATAAAGTCTAGGCATGGACCCTCTGCTTCCAAGATGCCAAGAAACCAAGAA
TGAAAACCCAGTGGACTACACCGTTTCAGATCCCAACCAAGCACCCTATGCCATTACGCC
CATGAAACGCCCAATGGAGGAGGACGGGGAGGAGAAGTCCCCAGCAAAAAGAAGAGAA

```



[View online »](#)

```
GATTCAGAAGAAAGAGGAGAAGGCAGAGCCCCCAGGCTATGAATGCCCTGATGCGGTT
GAACCACTGAAGCCAGGGCTGCAGTACAAGCTGGTGTCCAGACTGGGCCCGTCCATGC
CCCCATCTTTACCATGTCTGTGGAGTTGATGGCAATTCATTGAGGCCTCTGGGCCCTC
CAAAAAGACGGCAAGCTGCACGTGGCCGTTAAGGTGTTACAGGCACATGGGCTTGCCGAC
GGGTGCTGAAGGCAGGGACTCGAGCAAGGGGGAGGACTCGGCTGAGGAGACCGAGGCGAA
GCCAGCAGTGGTGGCCCTGCCCACTGGTAGAAGCTGTCTCCACCCCTAGTGCGGCCTT
TCCCTCAGATGCCACTGCCGAGCAGGGGCCGATCCTGACAAAGCACGGCAAGAACCAGT
CATGGAGCTGAACGAGAAGAGGCGTGGGCTCAAGTACGAGCTCATCTCCGAGACCGGGG
CAGCCACGACAAGCGCTTCGTATGGAGGTCGAAGTGGATGGACAGAAGTTCCAAGTGC
TGGTTCCAACAAAAGGTGGCGAAGGCCTACGCTGCTCTTGCTGCCCTAGAAAAGCTTTT
CCCTGACACCCCTCTCGCCCTTGATGCCAACAAGAGAGAGCCCACTACCCGTCAG
AGGGGGACCGAAATTTGCTGCTAAGCCACATAACCCTGGCTTCGGCATGGGAGGCCCAT
GCACAACGAAGTCCCCACCCCAACCTTCGAGGGCGGGGAAGAGGCGGGAGCATCCG
GGGACGAGGGCGGGGCGAGGATTTGGTGGCGCAACCATGGAGGCTACATGAATGCCGG
TGCTGGGTATGGAAGCTATGGGTACGGAGGCAACTCGGCGACAGCAGGCTACAGTCAGTT
CTACAGCAACGGAGGGCATTCTGGGAATGCCAGTGGCGGTGGCGCGGGGGCGGTGGTGG
CTCCTCCGGCTATGGCTCCTACTACCAAGGTGACAACATAACTCACCGGTGCCCCAAA
ACACGCTGGGAAGAAGCAGCCGACGGGGCCAGCAGAAGCCCTCCTACGGCTCGGGCTA
CCAGTCCCACAGGGCCAGCAGCAGTCTACAACCAGAGCCCTACAGCAACTATGGCCC
TCCACAGGGCAAGCAGAAAGGCTATAACCATGGACAAGGCAGCTACTCCTACTCGAACTC
TACAACCTCTCCCGGGGGCGGGGCGGATCCGACTACAACACGAGAGCAAAATCAACTA
CAGTGGTAGTGGAGGCCAAGCGCGGGGAACAGTACGGCTCAGGCGGGGCATCCTACAA
CCAGGGTCACACGGGGGCTACGGCGGAGTTCTGGGGCGGCTCCTCATACCAAGGCAA
ACAAGGAGGCTACTCACAGTCAACTACAACCTCCCGGGGTCCGCGCAGAAGTACAGTGG
CCCTCCAGCTCCTACCAGTCTCACAAGCGGCTATGGCAGAAACGAGACCACAGCAT
GAACTACCAGTACAGATAAGCCCCGCGGGGCGGAGATTTCTACCTTCTGCACCTACTCC
CCATCAGAAGATCGAGTTTTATGCATCACAGTTAATATGTGAGTGGCCCTCCAGCCCC
CGCCCCATCCCCTCCACGTTGCTGTGTCGTGAGGTGCAGCGGGTACCCTGTGGCCGT
CCTGTGACCCATATTTAGCCGTGTTGGGACTCCGTGCTTCAATGGTTTGTAGTTGCC
ATTACAACCTTTGCTGGGTAGAGTTTTTGGTTTTAACAGTTCAGTATCCCTCTGTCTAT
TCACACTTAAAGTTAGTGGTAACTCAAATGTCTTTAAATAGTTACAGAAGGGATACGTC
ATTTGTTAATGCTTTTGTGAAGTGAATTAACGAGCTTTCTGTATTTAATGCTTTAGTG
TTTCAGTTTTATAAGTGAAGATTTATTTTAAAAACAGTGGGAAAGAGTGGGGGTTTTT
TT
```

- Restriction Sites:** Please inquire
- ACCN:** NM\_012218
- Insert Size:** 3400 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_012218.2.
- 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\\_012218.2](#), [NP\\_036350.2](#)

**RefSeq Size:** 6058 bp

**RefSeq ORF:** 2685 bp

**Locus ID:** 3609

**UniProt ID:** [Q12906](#)

**Cytogenetics:** 19p13.2

**Domains:** DSRM

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a double-stranded RNA (dsRNA) binding protein that complexes with other proteins, dsRNAs, small noncoding RNAs, and mRNAs to regulate gene expression and stabilize mRNAs. This protein (NF90, ILF3) forms a heterodimer with a 45 kDa transcription factor (NF45, ILF2) required for T-cell expression of interleukin 2. This complex has been shown to affect the redistribution of nuclear mRNA to the cytoplasm. Knockdown of NF45 or NF90 protein retards cell growth, possibly by inhibition of mRNA stabilization. In contrast, an isoform (NF110) of this gene that is predominantly restricted to the nucleus has only minor effects on cell growth when its levels are reduced. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Dec 2014]  
Transcript Variant: This variant (1) uses an alternate splice site in the 3' coding region compared to variant 4. The resulting isoform (a) has a shorter C-terminus compared to isoform d. This isoform is also called NFAR-2, ILF3-E and NF110.