

Product datasheet for **SC127534**

ILF3 (NM_004516) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ILF3 (NM_004516) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127534 sequence for NM_004516 edited (data generated by NextGen Sequencing)

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ATGCGTCCAATGCGAATTTTTGTGAATGATGACCGCCATGTGATGGCAAAGCATTCTTCC
GTTTATCCAACACAAGAGGAGCTGGAGGCAGTCCAGAACATGGTGTCCCACACGGAGCGG
GCGCTCAAAGCTGTGTCGACTGGATAGACGAGCAGGAAAAGGGTAGCAGCGAGCAGGCA
GAGTCCGATAACATGGATGTGCCCCAGAGGACGACAGTAAAGAAGGGGCTGGGGAACAG
AAGACGGAGCACATGACCAGAACCCTGCCGGGAGTGTGCGGGTGGCCCTGGTGGCAAAG
GGCCTCCTACTCAAGGGGACTTGGATCTGGAGCTGGTGTGCTGTGTAAGGAGAAGCCC
ACAACCGCCCTCCTGGACAAGGTGGCCGACAACCTGGCCATCCAGCTTGTGCTGTAACA
GAAGACAAGTACGAAATACTGCAATCTGTGCGACGATGCTGCGATTGTGATAAAAAACACA
AAAGAGCCTCCATTGTCCCTGACCATCCACCTGACATCCCCTGTTGTGAGAGAAGAAATG
GAGAAAGTATTAGCTGGAGAAACGCTATCAGTCAACGACCCCCCGGACGTTCTGGACAGG
CAGAAATGCCTTGTGCTTGGCGTCCCTCCGACACGCCAAGTGGTTCAGGCCAGAGCC
AACGGGCTGAAGTCTTGTGTCATTGTGATCCGGGTCTTGAGGGACCTGTGCACTCGCGTG
CCCACCTGGGGTCCCCTCCGAGGCTGGCCTCTCGAGCTCTGTGAGAAATCCATTGGC
ACGGCCAAACAGACCGATGGGTGCTGGCGAGGCCCTGCGGAGAGTGTGGAGTGCCTGGCG
TCGGGCATCGTGATGCCAGATGGTTCTGGCATTATGACCCTTGTGAAAAGAAGCCACT
GATGCTATTGGGCATCTAGACAGACAGCAACGGGAAGATATCACACAGAGTGCAGCAGCAC
GCACTGCGGCTCGCTGCCTTCGGCCAGCTCCATAAAGTCTAGGCATGGACCCCTCTGCCT
TCCAAGATGCCAAAGAAACCAAAGAATGAAAACCCAGTGGACTACACCGTTCAGATCCCA
CCAAGCACCACTATGCCATTACGCCATGAAACGCCCAATGGAGGAGGACGGGGAGGAG
AAGTCGCCCAGCAAAAAGAAGAAGATTGAGAAGAAAGAGGAGAAGGCAGAGCCCCC
CAGGCTATGAATGCCCTGATGCGGTTGAACCACTGAAGCCAGGGCTGCAGTACAAGCTG
GTGTCCCAGACTGGGCCGTCCATGCCCCATCTTTACCATGTCTGTGGAGGTTGATGGC
AATTCATTGAGGCTCTGGGCCCTCAGAAAGACGGCCAAGCTGCACGTGGCCGTTAAG
GTGTTACAGGACATGGGCTTGGCGACGGGTGCTGAAGGCAGGGACTCGAGCAAGGGGGAG
GACTCGGCTGAGGAGACCGAGGCGAAGCCAGCAGTGGTGGCCCCTGCCCCAGTGGTAGAA
GCTGTCTCCACCCTAGTGGCCCTTCCCTCAGATGCCACTGCCGAGCAGGGGCCGATC
CTGACAAAGCACGGCAAGAACCAGTCAATGGAGCTGAACGAGAAGAGGCGTGGGCTCAAG
TACGAGCTCATCTCCGAGACCGGGGACGCCACGACAAGCGCTTCGTGATGGAGGTCGAA
GTGGATGGACAGAAGTCCAAGGTGCTGGTTCCAACAAAAGGTGGCGAAGGCCTACGCT
GCTCTTGTGCCCTAGAAAAGCTTTCCCTGACACCCCTCTCGCCCTTGATGCCAACAAA
AAGAAGAGAGCCCAAGTACCCGTGAGAGGGGACCGAAATTTGCTGCTAAGCCACATAAC
CCTGGCTTCGGCATGGGAGGCCCATGCACAACGAAGTCCCCCACCCTCAACCTTCGA
GGGCGGGGAAAGAGGGGAGCATCCGGGACGAGGGCGCGGGGAGGATTTGGTGGCGCC
AACCATGGAGGCTACATGAATGCCGGTGTGGGTATGGAAGCTATGGGTACGGAGGCAAC
TCKGCGACAGCAGGCTACAGTACTTTTTACAGACTGCTACGGCTATCATGATTTGGG
TCTTCCTAG
    
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Clone variation with respect to NM_004516.3
2043 g=>k

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_004516.2](#), [NP_004507.2](#)

RefSeq Size: 3677 bp

RefSeq ORF: 2109 bp

Locus ID: 3609

UniProt ID: [Q12906](#)

Cytogenetics: 19p13.2

Domains: DSRM, DZF

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 (2) differs in the 3' UTR and coding region compared to variant 4. The resulting isoform (b) has a distinct C-terminus compared to isoform d. This isoform is also called NFAR-1 or DRBP76.