

Product datasheet for **RG226985**

ILF3 (NM_001137673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ILF3 (NM_001137673) Human Tagged ORF Clone
Tag:	TurboGFP
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:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226985 representing NM_001137673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGTCCAATGCGAATTTTTGTGAATGATGACCGCCATGTGATGGCAAAGCATTCTTCGTTTATCCAA
 CACAAGAGGAGCTGGAGGCAGTCCAGAACATGGTGTCCCACAGGAGCGGGCGCTCAAAGCTGTGTCCGA
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 CATTGTCCCTGACCATCCACCTGACATCCCTGTTGTGACAGAGAAGAAATGGAGAAAGTATTAGCTGGAGA
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 CGACACGCCAAGTGGTTCAGGCCAGAGCCAACGGGCTGAAGTCTTGTGTATTGTGATCCGGGTCTTGA
 GGGACCTGTGCACTCGCGTGCACCTGGGGTCCCTCCGAGGCTGGCCTCTCGAGCTCCTGTGTGAGAA
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 TCGGGCATCGTATGCCAGATGGTCTGGCATTATGACCCTTGTGAAAAAGAAGCCACTGATGCTATTG
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 ATGGAGTTCGAAGTGGATGGACAGAAGTCCAAGGTGCTGGTCCAACAAAAGGTGGCGAAGGCCTACG
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 GGCCCCATGCACAACGAAGTGGCCCCACCCCCAACCTTCGAGGGCGGGGAGAGGGCGGGAGCATCCGGG
 GACGAGGGCGGGGCGAGGATTTGGTGGCGCAACCATGGAGGCTACATGAATGCCGGTGTGGGTATGG
 AAGCTATGGGTACGGAGGCAACTCTGCGACAGCAGGCTACAGTGACTTTTTACAGACTGCTACGGCTAT
 CATGATTTGGTCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226985 representing NM_001137673
 Red=Cloning site Green=Tags(s)

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MRPMRIFVNDRRHVMMAKSSVYPTQEELEAVQNMVSHTERALKAVSDWIDEQEKGSSSEQAESDNMDVPPE
DDSKEGAGEQKTEHMTRTLRGVMRVGLVAKGLLLKGDLDLELVLLCKEKPPTALLDKVADNLAIQLAAVT
EDKYEILQSVDDAAIVIKNTKEPPLSLTIHLTSPVVREEMEKVLGETLSVNDPPDVLDRQKCLAALASL
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SGIVMPDGSIGIYDPCEKEATDAIGHLDROREDITQSAQHALLRLAAFQGLHKVLMGMDPLPSKMPKPKNE
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AVVAPAPVVEAVSTPSAAFPSDATAENVKQQGPILTKHGKNPVMELNEKRRGLKYELISETGGSHDKRFV
MEVEVDGQKFGAGSNKKVAKAYAALALEKLPDTPALDANKKKRAPVPVRRGGPKFAAKPHNPGFGMG
GPMHNEVPPPNLRGRGRGGSIRGRGRGRFGGANHGGYMNAGAGYGSYGYGNSATAGYSDFFTDCYGY
HDFGSS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001137673

ORF Size: 2118 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001137673.1](#), [NP_001131145.1](#)

RefSeq Size: 3757 bp

RefSeq ORF: 2121 bp

Locus ID: 3609

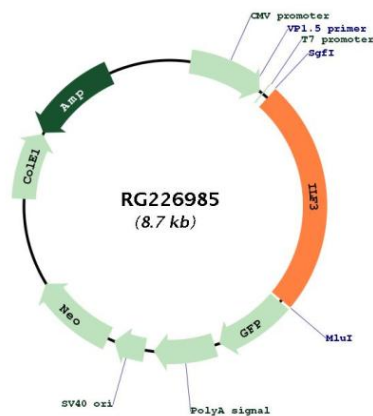
UniProt ID: [Q12906](#)

Cytogenetics: 19p13.2

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]

Product images:



Circular map for RG226985