

Product datasheet for **SC123501**

KLF4 (BC030811) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLF4 (BC030811) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLF4
Synonyms:	EZF; GKLF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC030811 edited
TAATGAGGCAGCCACCTGGCGAGTCTGACATGGCTGTCAGCGACGCGCTGCTCCCATCTT
TCTCCACGTTTCGCGTCTGGCCCGGCGGGAAGGGAGAAGACACTGCGTCAAGCAGGTGCC
CGAATAACCGCTGGCGGGAGGAGCTCTCCACATGAAGCGACTTCCCCAGTGCTTCCCG
GCCGCCCTATGACCTGGCGGGCGGACCGTGGCCACAGACCTGGAGAGCGGGGAGCCG
GTGCGGCTTGGCGGGTAGCAACCTGGCGCCCTACCTCGGAGAGAGACCAGGAGTTCA
ACGATCTCCTGGACCTGGACTTTATTCTCTCAATTCGCTGACCCATCCTCCGGAGTCAG
TGGCCGCCACCGTGTCTCGTACGCGTACGCTCCTCTTCGTCGTCGCGCTCGAGCAGCG
GCCCTGCCAGCGCGCCCTCCACCTGCAGCTTACCTATCCGATCCGGGCCGGGAACGACC
CGGGCGTGGCGCCGGGCGGCACGGGCGGAGGCCTCCTCTATGGCAGGGAGTCCGCTCCCC
CTCCGACGGCTCCCTTCAACCTGGCGGACATCAACGACGTGAGCCCTCGGGCGGCTTCG
TGGCCGAGCTCTGCGGCCAGAATTGGACCCGGTGTACATTCCGCGCAGCAGCCGACG
CGCCAGGTGGCGGGCTGATGGGCAAGTTCGTGCTGAAGGCGTCGCTGAGCGCCCTGGCA
GCGAGTACGGCAGCCCGTGGTTCATCAGCGTCAGCAAAGGCAGCCCTGACGGCAGCCACC
CGGTGGTGGTGGCGCCCTACAACGGCGGGCCGCCGCGCACGTGCCCAAGATCAAGCAGG
AGGCGGTCTCTTCGTGCACCCACTTGGGCGCTGGACCCCTCTCAGCAATGGCCACCGGC
CGGCTGCACACGACTTCCCCCTGGGGCGGCAGCTCCCCAGCAGGACTACCCCGACCTGG
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TCCATCCCCACCCGGGGCCCAATTACCCATCCTTCTGCCGATCAGATGCAGCCGCAAG
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GATCGTGGCCCCGGAAAAGGACCCGCCACACTTGTGATTACGCGGGCTGCGGCAAAA
CCTACACAAAGAGTTCCCATCTCAAGGCACACCTGCGAACCCACACAGGTGAGAAACCTT
ACCACTGTGACTGGGACGGCTGTGGATGAAAATTCGCCCGCTCAGATGAACTGACCAGGC
ACTACCGTAAACACACGGGGCACCGCCGTTCCAGTGCCAAAAATGCGACCGAGCATTTT
CCAGGTCGGACCACCTCGCCTTACACATGAAGAGGCATTTTTAAATCCCAGACAGTGGAT
ATGACCCACACTGCCAGAAGAGAATTCAGTATTTTTTACTTTTCCACTGTCTTCCCGAT
GAGGGAAGGAGCCAGCCAGAAAGCACTACAATCATGGTCAAGTCCCAACTGAGTCATC
TTGTGAGTGGATAATCAGGAAAAATGAGGAATCCAAAAGACAAAAATCAAAGAACAGATG
GGGTCTGTGACTGGATCTTCTATCATTCCAATTCTAAATCCGACTTGAATATTCCTGGAC
TTACAAAATGCCAAGGGGTGACTGGAAGTTGTGGATATCAGGGTATAAATTATATCCGT
GAGTTGGGGGAGGGAAGACCAGAATTCCTTGAATTGTGTATTGATGCAATATAAGCATA
AAAGATCACCTTGTATTCTTTACCTTCTAAAAGCCATTATTATGATGTTAGAAGAAGA
GGAAGAAATTCAGGTACAGAAAACATGTTAAATAGCCTAAATGATGGTCTTGGTGAGT
CTTGGTTCTAAAGGTACCAAAACAAGGAAGCCAAAGTTTTCAAAGTGTGCATACTTTGAC
AAGGAAAATCTATATTTGTCTCCGATCAACATTTATGACCTAAGTCAGGTAATATACT
GGTTTACTTCTTAGCATTTTTATGCAGACAGTCTGTTATGCACTGTGGTTTCAGATGTG
CAATAATTTGTACAATGGTTTATTCCCAAGTATGCCTTAAGCAGAACAAATGTGTTTTTC
TATATAGTTCCTTGCCTTAATAAATATGTAATATAAATTTAAGCAAACGCTATTTTTGTA
TATTTGTAAACTACAAAGTAAAATGAACATTTTGTGGAGTTTGTATTTTGCATACTCAAG
GTGAGAATTAAGTTTTAAATAAACCTATAATTTTTATAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC030811 unedited NNNNGGTCAGAATTTGTATACGACTCCTATAGGGCGGCCGCGAATTCGCCATTACGGCCG GGTAAATGAGGCAGCCACCTGGCGAGTCTGACATGGCTGTCAGCGACGCGCTGCTCCCATC TTTCTCCACGTTTCGCGTCTGGCCCGCGGGAAGGGAGAAGACACTGCGTCAAGCAGGTGC CCCGAATAACCGCTGGCGGGAGGAGCTCTCCACATGAAGCGACTTCCCCAGTGCTTCC CGGCCGCCCTATGACCTGGCGGCGGACCGTGGCCACAGACCTGGAGAGCGGGGAGC CGGTGCGGCTTGGCGCGGTAGCAACCTGGCGCCCTACCTCGGAGAGAGACCGAGGAGTT CAACGATCTCCTGGACCTGGACTTTATTCTCTCCAATTCGCTGACCCATCCTCCGGAGTC AGTGGCCGCCACCGTGTCTCGTCAGCGTCAGCCTCTTTCGTCGTCGCGTCGAGCAG CGGCCCTGCCAGCGCCCTCCACCTGCAGCTTACCTATCCGATCCGGGCCGGGAACGA CCCGGGCGTGGCGCCGGGCGCACGGGCGGAGGCTCCTCTATGGCAGGGAGTCCGCTCC CCCTCCGACGGCTCCCTCAACCTGGCGGACATCAACGACGTGAGCCCTCGGGCGGCTT CGTGGCCGAGCTCCTGCGCCAGAATTGGACCCGGTGTACATTCCGCCGACGAGCCGA GCCGCCAGGTGGCGGGCTGATGGCAAGTTCGTGCTNGAAGCGTCTGAGCGCCCTGG CAGCGAGTACCGAGCCCGTCCGTCATCAGCGTCAGCAAAGGCAGCCCTGACGGCAGCCA CCCGGTGGGTGGTGGCGCCCTACAACGGCGGGCCGCCGCGCACGTGCCCAAGATCAAC
Restriction Sites:	Please inquire
ACCN:	BC030811
Insert Size:	2468 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).
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:	<u>BC030811.1</u> , <u>AAH30811.1</u>
RefSeq Size:	2468 bp
Locus ID:	9314
Cytogenetics:	9q31.2
Protein Families:	Adult stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

Gene Summary:

This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is required for normal development of the barrier function of skin. The encoded protein is thought to control the G1-to-S transition of the cell cycle following DNA damage by mediating the tumor suppressor gene p53. Mice lacking this gene have a normal appearance but lose weight rapidly, and die shortly after birth due to fluid evaporation resulting from compromised epidermal barrier function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]