

Product datasheet for **SC127849**

KLF2 (NM_016270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLF2 (NM_016270) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLF2
Synonyms:	LKLF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127849 sequence for NM_016270 edited (data generated by NextGen Sequencing)

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ATGGCGCTGAGTGAACCCATCCTGCCGTCCTTCTCCACTTTCGCCAGCCCGTGCCGCGAG
CGCGGCCCTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGAC
CTCAACAGCGTGTCTGGACTTCATCCTGTCCATGGGGCTGGATGGCCTGGGCGCCGAGGCC
GCCCGGAGCCGCGCCGCCGCCCGCCCGCCTGCGTTCTATTACCCCGAACCCGGCGCG
CCCCCGCCTACAGCGCCCCCGGGTGGCCTGGTGTCTGAGCTGCTGCGACCCGAGCTG
GATGCGCCGCGGGGCCCGCACTGCACGGCCGCTTCTGCTGGCGCCGCCGGCCGCGCTG
GTCAAGGCCGAGCCCCCTGAAGCGGACGGCGCGCGGCTACGGCTGCGCCCCGGGCTG
ACCCGTGGACCGCGGGCCTCAAGCGCGAGGGCGCCCCGGGCCCGCGGCTTCGTGCATG
CGAGGTCCCGGGGCGCCCCCGCGCCCGACACACCGCCGCTCAGCCCCGACGGC
CCCGCGCCCTGCCCGCGCCCGGTCCGCGCGCCTCCTTCCCGCCGCTTTCGGTGGCCCT
GGTTTCGGCGCGCCCCGGGCCCGCTGCATTACGCGCCGCTGCGCCCCAGCCTTCGGT
CTCTTCGACGACGCGGCCGCGCGCGGAGCCCTGGGCTGGCGCCCCCGCGCCCGC
GGTCTCTCACGCCGCTGCGTCCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGC
CGCCGCTCTTGGCCCCGAAACGCACCGCCACTCACACCTGCAGCTACGGGGCTGCGGC
AAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCGCACGCACACAGGTGAGAAG
CCCTACCACTGCAACTGGGACGGCTGCGGCTGGAAGTTTGGCGCTCAGACGAGCTCACG
CGCCACTACCGAAAGCACACGGGCCACCGGCCATTCCAGTGCCATCTGTGCGATCGTGCC
TTCTCGCGCTCCGATCACCTGGCGCTGCACATGAAACGGCACATGTAG

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Clone variation with respect to NM_016270.2
311 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016270 unedited
 CCTTCGCGCCCGTTGCCGCTTTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
 GAGCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAA
 TTCGGCACCAGGCCCGCCCGGCCCGACCAGCCCGGCTCGGGCAGCCACTCACCGGTG
 TCCCCGTCGCGCTCCTTCTCCCGGGTCCCGGCCATGGCGCTGAGTGAACCCATCTGC
 CGTCTTCTCCACTTTCGCCAGCCCGTCCCGGAGCGCGGCTGCAGGAGCGCTGGCCGC
 GCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGTGGACTTCATCC
 TGTCCATGGGGCTGGATGGCTGGGCGCCGAGGCCGCCCGGAGCCGCCCGCCGCCCC
 CGCCGCTGCGTTCTATTACCCGAACCCGGCGCGCCCGCCCTACAGCGCCCGCGGG
 GTGGCCTGGTGTCTGAGCTGCTGCGACCCGAGTGGATGCGCCGCGGGGCGCCGACTGC
 ACGGCCGCTTTCTGCTGGCGCCCGCCGCGCCTGGTCAAGGCCGAGCCCTGAAGCGG
 ACGGGCGGCGGCTACGGCTGCGCCCGGGCTGACCCGTGGACCGCGCGGCTCAAGC
 GCGAGGGCGCCCGGGCCGGCGGCTTCGTGCATGCGAGGTCCCGGGGCGGNCCCCGC
 CGCCGCCGACACACCGNCGCTCAGCCCGACGCCCCGCGCGCTGCCCGCCCGGGT
 CGNNGCGCTTCTCCCGCGCTTTCGGTGGCCCTGGNTTTTCGCGCCCGGGCCCGGC
 CTGCATTACGCGCCGCTGCGCCCCAGCCTTCGGTCTCTTCGACGACGCGCCGNCGCCG
 GCGAGCCCTGGGCTGGCGCCCGCCCGCCCGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016270 unedited
 NGAGCACTGGGNNAGGGTCCACAGGNATGCCACCCGGGCTCTGTTCCAGGAAACAGCTA
 TGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTAAAAAGATGCAAACTTTTTAATAAAAAAAAAAAACCAACCCAGCAAAATTTA
 TAAAAACGAACAGGTTGCCAAAAATGCCACCTGTCTTTTTATGTACAGTAATAAAT
 ATTTGTCAGTCACTTTTTACAATTTTATAAAAAATGCCGCAAACAGTACAAATTAAAGCC
 CTTATTTCTCACAAAGCATCACAAAGCCTCGATCCTTTAGTGTAACCCGGTGGGAGAGAA
 GATGCCACTTAAATATTGCACCATTTTAAAAACAAACTCGTCAAGGAGGATCGTGGT
 CTTTTCCACCGGCCTTCAGTCACAAACGGGGCTGGGGTGGTGGCGTCNTCNCGTCG
 TCATCGAGGGAGACCCTGTAGCCACGCTGTGCCCGGCCGGTCTCTGGGTCCAATAA
 ATACCANTCACAGTTTGGGAGGGGGCCCGCCCGGGCGTGGGACCCGCCACGGCCCCG
 CGCAGGTGGGGCGGGGGCCCTCCCGCTACATGTTGCCGTTTCATGTGCAACGCCCGGT
 AATCCGAACGCCGAGAAGGGCCATTGCCCCAAATGGCACTTGAATGGGCCCGGTGGCC
 CCTGGTTGCTTTTCGGGTAGGGGGCGCGTGGGCTTCTTTTGGAGCCCCAAAATTTCCA
 GCCCAAACCTTCCCATTTTGCAGGGGTGGGGCTTCTACCCTGTGTTGGGGGGCCAA
 ATTCCCCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_016270

Insert Size:

1720 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:

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_016270.2](#), [NP_057354.1](#)

RefSeq Size: 1655 bp

RefSeq ORF: 1068 bp

Locus ID: 10365

UniProt ID: [Q9Y5W3](#)

Cytogenetics: 19p13.11

Domains: zf-C2H2

Protein Families: Transcription Factors

Gene Summary: This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is expressed early in mammalian development and is found in many different cell types. The protein acts to bind the CACCC box found in the promoter of target genes to activate their transcription. It plays a role in many processes during development and disease including adipogenesis, embryonic erythropoiesis, epithelial integrity, inflammation and t-cell viability. [provided by RefSeq, Mar 2017]