

## Product datasheet for **SC111078**

### **KLF7 (NM\_003709) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KLF7 (NM_003709) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLF7
Synonyms:	UKLF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_003709 edited
GAATTCGGCACGAGGTGGCAGCTTCGTGTCAGTGAGTTTGCATCCCCCTTCTGATCCAC
GAGCTGGAGTGATTAGAGCCCTGGAAGGGAATTGTTACTCCCCTGGAGAAGTCCCCTTTT
CCTGGCAGTCTGCTGCACTGTACACGCTGGATGCCTCTCTCCATCCACCCCACTCACTCG
CTCCTCTCTCACCTCCTCTCCCTCTCCTGCATTGATTTTTTTTTTCTTTTTAGTT
GACTGAAACAAAAACAAAAAGGGCCACTGGATGCTGCCTTCTTGGGGGTGAGCCA
GACAGACTGACAAACAAACAGCCCAACTGTGTTGGGGGAGGGTTTCGCCTCCCCTTTT
GCCCGGCAGCAGCATGGACGTGTTGGCTAGTTATAGTATATTCCAGGAGCTACAAC
TGTCCACGACACCGGCTACTTCTCAGCTTTACCATCCCTGGAGGAGACCTGGCAGCAGAC
ATGCCTTGAATTGGAACGCTACCTACAGACGGAGCCCGGAGGATCTCAGAGACCTTTGG
TGAGGACTTGGACTGTTTCTCCACGCTTCCCCTCCCCTGCATTGAGGAAAGCTTCCG
TCGCTTAGACCCCTGCTGCTCCCCTGGAAGCGGCCATCTGTGAGAAGAGCTCGGCAGT
GGACATCTTGCTCTCTCGGGACAAGTTGCTATCTGAGACCTGCCTCAGCCTCCAGCCGGC
CAGCTCTTCTCTAGACAGCTACACAGCCGCAACCAGGCCAGCTCAACGCAGTGACCTC
ATTAACGCCCCCATCGTCCCCTGAGCTCAGCCGCCATCTGGTCAAACCTCACAACCTCT
CTCTGCCGTGGATGGCAGGGTGACGTTGAAACTGGTGGCCAAGAAGGCTGCTCTCAGCTC
CGTAAAGGTGGGAGGGTTCGCAACAGCTGCAGCAGCCGTGACGGCTGCGGGGGCCGTTAA
GAGTGGACAGAGCGACAGTGACCAAGGAGGGCTAGGGGCTGAAGCATGTCCCGAAAAACA
GAAGAGGGTTCACCGCTGTCAAGTTAACGGGTGCCGAAAGTTTATACAAAAAGCTCCCA
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CCTACTATTCCGTGCGTCAGACTTCCTCACAGAAGTGTGACTGGTTTTGGTTCTTAGTA
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GCAAAGTGGCCAAGAGAATAAAGTCCTTGATGATAAATCACAGTATATCCCTTGAGCCTC
ACCTTATTGCCAGTGCTAGATTTTTTCTTTTTAATCTCTCCGXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXTGGCTAGGCCACCATGACTTGTGACCTAGAACCCCAAGGATTAACAG
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TAAACAAAAATGGCGCTTGGTCCACACACGGTTGCTGCTCCCTCCTACCAGCTGGCTCC
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AGCAACCTTCAAGATCTGGGTTTTGAGCTTTCTGCAACCTTTGTTTTCACTGAAATGTTG
AACTACTCGTCTGAGGGCAAAGAACCTCCTCACAATGCTATAGCTGCCAATTGGACA
CTTGGGGCATTTCGAGGTCTGGCCCTAAGAATTTACTTTCTCCTTTTCTTTTTCTATT
TAGACCAAAAAAAAAAAAAAAAAAAGTTCGAC
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_003709 unedited            GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGGCAGCTTCGTGTCAG            TGAGTTTGCATCCCCCTTCTGTATCCACGAGCTGGAGTGATTAGAGCCCTGGAAGGGAAT            TGTTACTCCCCTGGAGAAGTCCCCTTTTCTGGCAGTCGTCTGCACTGTACACGCTGGAT            GCCTCTCTCCATCCACCCCACTCACTCGCTCCTCTCTCACCTCCTCTCCTCTCCTGC            ATTGATTTTTTTTTTTCCTTTTTAGTTGACTGAAACAAAAACAAAAAGGCCACTG            GATGTCTGCCTTCTTGGGGGTGAGCCAGACAGACTGACAAACAACAGCCCCCACTGTG            TTCGGGGGAGGGTTTCGCTCCCCTTTTCCCGCAGCAGCAGCATGGAGTGTTGGCTA            GTTATAGTATATTCCAGGAGCTACAACCTGTCCACGACACCGGCTACTTCTCAGCTTAC            CATCCCTGGAGGAGACCTGGCAGCAGACATGCCTTGAATTGGAACGCTACCTACAGACGG            AGCCCCGGAGGATCTCAGAGACCTTTGGTGAGGACTTGGACTGTTTCTCCACGCTTCCC            CTCCCCGTGCATTGAGGAAAGCTTCCGTGCTTAGACCCCTGCTGCTCCCCGTGGAAG            CGGCCATCTGTGAGAAGAGCTCGGCAGTGGACATCTTGCTCTCTCGGACAAGTTGCTAT            CTGAGACCTGCCTCAGCCTCCAGCCGGCCAGCTTCTCTAGACAGCTACACAGNCGTNA            ACCAGGCCAGCTCAACGCAGTGACCTCATTACGCCCCATCGTCCCCTGAGCTCAGCCG            CCATTTGGTCAAACCTCACAACTCTCTGCGCGGATGGCCCGTACTTTAAACTGGTGC            CANNAAGCTGCTTCACTCCTAAGTGGGAGG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' genomic read for NM_003709 unedited            GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGTCTAAATAGAAAAAGAAAAG            GAGAAAAGTAAATCTTAGGGCCAGACCTCGAAATGCCCAAGTGCCAATTGGCAGCTAT            AGCATTTGTGAGGAGTTCTTTGCCCTCAGACGAGTAGTTTCAACATTTCAAGTAAAAAC            AAAGGTTGCAGAAAGCTGAAAACCCAGATCTTGAAGTTGCTGTCATATATGTGTTGTG            TTTCTTATATTATTTCTTTGACTTCAGTTTTGCATCCCAAATATGTATGGGGTGGCAT            TTTAACAGTCAATGAGTCAAACAGTCAAAGGAGGACAGGAGGGGAGCCAGCTGGTAGGAG            GGAGCAGCAACCGTGTGTGGACCAAGCGCCATTTTTGTTTATAGACGTGCTTGAAGGG            ATGGTCCCAGAATATACAAAATATACAATCTGCCTAATAACCACCCCGTTGCTTGCAT            AGGCCATTTGATGGTCTAAAGGCAGTCTTTGGAGTTGAGGCCAGTGGCAGCTAGCTAGG            AATGCGGGTAGATAGAGACCACTACTGGATGTGTGAGTGGCATGACAAGTAAGGACTG            TAGACTCCTTTGGAGTCAGCTTGCAGAGTAAATGTGAGGCCTCTGTTAATCCTGGGGTT            CTANGTACAAGTCATGGTGGCCCTAGCCAACAAAAAAGGAAAGAAAGAACGTGTCTC            TTCTTTTAAACAGCCCATGAGAGAAACCTAACCCTTTTTCTTAAATGTCAACCCTCA            CTTCCACAATGGCCGTTTTAAATTGGGTATTGCAACCCGNTGGGGAATATGAGCTCACTG            GCCATGACCAAAACACAGATGATCCTTTGGGAACCCCTAACCTGGGAGCGCTCCTAATTT            TCCCACTCTTGAAGATGAAATTTGCGTTTTGTCCGGCTAACCCAGATAATAAACCC            ACTGCCTGGACACAGACACATGCGGACTGTCTGGGGACA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003709
<b>Insert Size:</b>	3900 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_003709.1](#), [NP\\_003700.1](#)

**RefSeq Size:** 1640 bp

**RefSeq ORF:** 909 bp

**Locus ID:** 8609

**UniProt ID:** [O75840](#)

**Cytogenetics:** 2q33.3

**Domains:** zf-C2H2

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene is a member of the Kruppel-like transcriptional regulator family. Members in this family regulate cell proliferation, differentiation and survival and contain three C2H2 zinc fingers at the C-terminus that mediate binding to GC-rich sites. This protein may contribute to the progression of type 2 diabetes by inhibiting insulin expression and secretion in pancreatic beta-cells and by deregulating adipocytokine secretion in adipocytes. A pseudogene of this gene is located on the long arm of chromosome 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.