

## Product datasheet for **SC330897**

### **KLF7 (NM\_001270944) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KLF7 (NM\_001270944) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** KLF7  
**Synonyms:** UKLF  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330897 representing NM\_001270944.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTTCCCGTCTTGCCAAACATGCCTTGAATTGGAACGCTACCTACAGACGGAGCCCCGGAGGATCTCA  
 GAGACCTTTGGTGAGGACTTGGACTGTTTCCTCCACGCTTCCCCTCCCCCGTGCAATTGAGGAAAGCTTC  
 CGTCGCTTAGACCCCTGCTGCTCCCCGTGGAAGCGGCCATCTGTGAGAAGAGCTCGGCAGTGGACATC  
 TTGCTCTCTCGGGACAAGTTGCTATCTGAGACCTGCCTCAGCCTCCAGCCGGCCAGCTCTTCTCTAGAC  
 AGCTACACAGCCGTCAACCAGGCCAGCTCAACGCAGTGACCTCATTAAACGCCCCATCGTCCCCTGAG  
 CTCAGCCGCCATCTGGTCAAAACCTCACAACTCTCTCTGCCGTGGATGGCACGGTGACGTTGAACTG  
 GTGGCCAAGAAGGCTGCTCTCAGCTCCGTAAAGGTGGGAGGGGTGCAACAGCTGCAGCAGCCGTGACG  
 GCTGCGGGGGCCGTTAAGAGTGGACAGAGCGACAGTGACCAAGGAGGGCTAGGGGCTGAAGCATGTCCC  
 GAAAACAAGAAGAGGGTTACCGCTGTCAAGTTTAAACGGGTGCCGAAAGTTTATACAAAAAGCTCCAC  
 TTAAAGGCCACCAGAGGACTCACACAGGTGAGAAGCCTTATAAGTGCTCATGGGAGGGATGTGAGTGG  
 CGTTTTGCACGAAGCGATGAGCTCACGAGGCACTACAGGAAACACACAGGTGCAAAGCCCTTCAAATGC  
 AACCCTGCGACAGGTGTTTTCCAGGTCTGACCATCTTGCCCTCCACATGAAGAGACATATCTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001270944

**Insert Size:** 825 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).


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**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\\_001270944.1](#)

**RefSeq Size:** 7954 bp

**RefSeq ORF:** 825 bp

**Locus ID:** 8609

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

**Cytogenetics:** 2q33.3

**Protein Families:** Transcription Factors

**MW:** 30.2 kDa

**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 (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (4) has a distinct N-terminus and is shorter than 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.