

## Product datasheet for **SC335638**

### **KLF5 (NM\_001286818) Human Untagged Clone**

#### Product data:

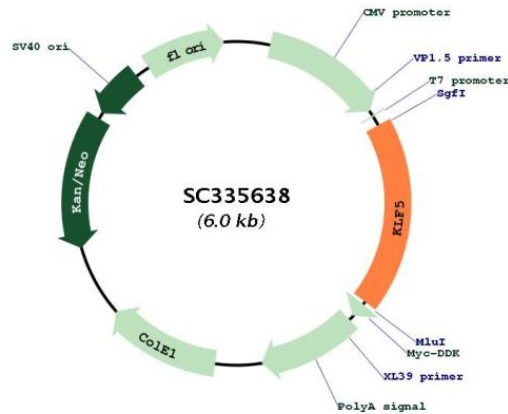
Product Type:	Expression Plasmids
Product Name:	KLF5 (NM_001286818) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLF5
Synonyms:	BTEB2; CKLF; IKLF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335638 representing NM_001286818. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGAAGTATCTGACACCTCAGCTTCTCCAGTTCTATAATTCCAGAGCATAAAAAGTATAGACGA
GACAGTGCCTCAGTCGTAGACCAGTTCTTCACTGACACTGAAGGGTTACCTTACAGTATCAACATGAAC
GTCTTCTCCCTGACATCACTCACCTGAGAAGTGGCCTCTACAAATCCCAGAGACCGTGCCTAACACAC
ATCAAGACAGAACCTGTTGCCATTTTCAGCCACCAGAGTGAACGACTGCCCTCCTCCGGCCCCGACC
CAGGCCCTCCCTGAGTTCACCAGTATATTCAGCTCACACCAGACCGCAGCTCCAGAGGTGAACAATATT
TTCATCAACAAGAAGTCTCTACACCAGATCTTATCTTTCTGTCCCTACCCAGCAGGGCCACCTGTAC
CAGCTACTGAATACACCGGATCTAGATATGCCAGTTCTACAAATCAGACAGCAGCAATGGACACTCTT
AATGTTTTCTATGTGAGTGCATGGCAGGCCTTAACACACACACCTCTGTGTTCCCGCAGACTGCAGTG
AAACAATCCAGGGCATGCCCTTGCACATACACAATGCCAAGTCAGTTTCTTCCACAACAGGCCACT
TACTTTCCCCCGTACCACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAAT
TTAACCCACCTCCATCCTATGCTGCTACAATTGCTTCTAAACTGGCAATTCACAATCCAATTTACCC
ACCACCTGCCAGTTAACTCACAAAACATCCAACCTGTGAGTACAATAGAAGGAGTAACCCCGATTTG
GAGAAACGACGCATCCACTACTGCGATTACCCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTTA
AAAGTCACTGAGGACTCACACTGGTAAAAGCCATACAAGTGTACCTGGGAAGGTGCGACTGGAGG
TTCCGCGGATCGGATGAGCTGACCCGCCACTACGGGAAGCACACAGGCGCCAAGCCCTTCCAGTGCAGG
GTGTGCAACCGCAGCTTCTCGCGCTCTGACCACCTGGCCCTGCATATGAAGAGGCACCAGAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001286818

**Insert Size:** 1101 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\\_001286818.1](#)

**RefSeq Size:** 2969 bp

**RefSeq ORF:** 1101 bp

**Locus ID:** 688

**UniProt ID:** [Q13887](#)

**Cytogenetics:** 13q22.1

**Protein Families:** Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

**MW:** 41.2 kDa

**Gene Summary:** This gene encodes a member of the Kruppel-like factor subfamily of zinc finger proteins. The encoded protein is a transcriptional activator that binds directly to a specific recognition motif in the promoters of target genes. This protein acts downstream of multiple different signaling pathways and is regulated by post-translational modification. It may participate in both promoting and suppressing cell proliferation. Expression of this gene may be changed in a variety of different cancers and in cardiovascular disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]

Transcript Variant: This variant (2, also known as tKLF5) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.