

Product datasheet for **SC326829**

KLF8 (NM_001159296) Human Untagged Clone

Product data:

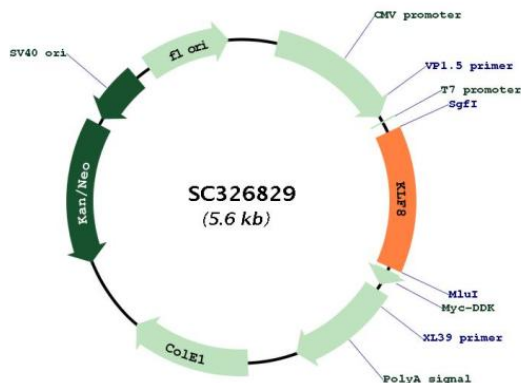
Product Type:	Expression Plasmids
Product Name:	KLF8 (NM_001159296) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLF8
Synonyms:	BKLF3; ZNF741
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326829 representing NM_001159296. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTCGATGGATAAACTCATAAACTTGGAGGTCCAACCTAATTCAGAAGGTGGCTCAATGCAG
GTATTCAGCAGGTCCTGCTTCTGTTCCGAAACAGAGATCCCCCTGAGATAGAATACAGAAGTAATG
ACTTCTCCAACACTCCTGGATGCCAACCCCATGGAGAACCAGCACTGTTAATGACATCAAGATTGAG
CCCCAGAAGAACTTTGGCTAGTGATTCAGCCTGCCCAAGTGAACCAAGTTGACCTCTCCTTTAC
AAGCCCAAGGCTCCTCTCAGCCTGCTAGCATGCTACAAGCTCCAATACGTCCCCCAAGCCACAGTCT
TCTCCCCAGACCCTTGTGGTGTCCAGTCAACATCTGACATGAGCACTTCAGCAAACATTCTACTGTT
CTGACCCAGGCTCTGTCTGACCTCCTCTCAGAGCACTGGTAGCCAGCAGATCTTACATGTCATTAC
ACTATCCCTCAGTCAGTCTGCCAAATAAGATGGGTGGCCTGAAGACCATCCCAGTGGTAGTGCAGTCT
CTGCCATGGTGTATACTACTTTGCCTGCAGATGGGGCCCTGCAGCCATTACAGTCCCCTCATTGGA
GGAGATGGTAAAAATGCTGGATCAGTGAAGTTGACCCACCTCCATGTCTCCACTGGAAATCCAAGT
GACAGTGAGGAGAGTACAATTGAGAGTGGATCCTCAGCCTTGACAGTCTGCAGGGACTACAGCAAGAG
AGAGAAGCCTTATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001159296

Insert Size: 774 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001159296.2](#)

RefSeq Size: 8544 bp

RefSeq ORF: 774 bp

Locus ID: 11279

UniProt ID: [O95600](#)

Cytogenetics: Xp11.21

Protein Families: Transcription Factors

MW: 27.2 kDa

Gene Summary: This gene encodes a protein which is a member of the Sp/KLF family of transcription factors. Members of this family contain a C-terminal DNA-binding domain with three Kruppel-like zinc fingers. The encoded protein is thought to play an important role in the regulation of epithelial to mesenchymal transition, a process which occurs normally during development but also during metastasis. A pseudogene has been identified on chromosome 16. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009] Transcript Variant: This variant (2) differs in the 5' UTR and lacks an exon in the 3' coding region that causes a frameshift compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-terminus compared to 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.