

## Product datasheet for **RC228194**

### **KLF8 (NM\_001159296) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KLF8 (NM_001159296) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLF8
Synonyms:	BKLF3; ZNF741
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228194 representing NM_001159296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGTCGATATGGATAAACTCATAAACAACTTGGAGGTCCAACCTAATTCAGAAGGTGGCTCAATGCAGG  
TATTCAAGCAGGTCAGTCTTCTGTTTCGGAACAGAGATCCCCCTGAGATAGAATACAGAAGTAATATGAC  
TTCTCCAACACTCCTGGATGCCAACCCCATGGAGAAGCCAGCACTGTTTAAATGACATCAAGATTGAGCCC  
CCAGAAGAACTTTTGGCTAGTGATTTAGCCTGCCCAAGTGAACCAAGTTGACCTCTCCTTTCACAAGC  
CCAAGGCTCCTCTCCAGCCTGCTAGCATGCTACAAGCTCCAATACGTCCCCCAAGCCACAGTCTTCTCC  
CCAGACCTTGTGGTGTCCACGTCAACATCTGACATGAGCACTTCAGCAAACATTCCTACTGTTCTGACC  
CCAGGCTCTGCTGACCTCCTCTCAGAGCACTGGTAGCCAGCAGATCTTACATGTCATTACACATATCC  
CCTCAGTCAGTCTGCCAAATAAGATGGGTGGCCTGAAGACCATCCAGTGGTAGTGCAGTCTCTGCCAT  
GGTGATACTACTTTGCCTGCAGATGGGGGCCCTGCAGCCATTACAGTCCCACTCATTGGAGGAGATGGT  
AAAAATGCTGGATCAGTGAAAGTTGACCCACCTCCATGTCTCCACTGGAAATCCAAGTGACAGTGAGG  
AGAGTACAATTGAGAGTGGATCCTCAGCCTTGACAGTCTGCAGGGACTACAGCAAGAGAGAGAAGCCTT  
A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC228194 representing NM\_001159296  
 Red=Cloning site Green=Tags(s)

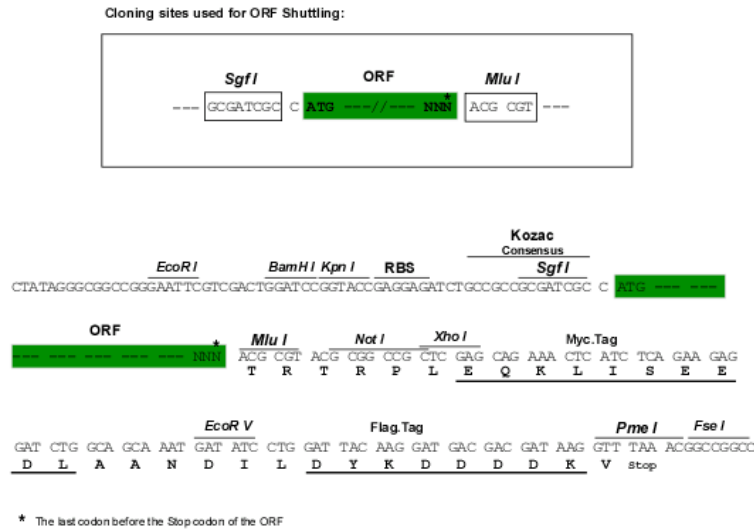
MVDMDKLINNLEVQLNSEGGSMQVFKQVTASVRNRDPPEIEYRSNMTSPTLLDANPMENPALFNDIKIEP  
 PEELLASDFSLPQVEPVDLSFHKPKAPLQAPASMLQAPIRPPKPQSSPQTLVVSTSTSDMSTSANIPTVLT  
 PGSVLTSSTGSQQILHVIHTIPSVSLPNKMGGGLKTIPVVVQSLPMVYTTLPADGGPAAITVPLIGGDG  
 KNAGSVKVDPTSMSPLEIPSDSEESTIESGSSALQSLQGLQQEREAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1927\\_a04.zip](https://cdn.origene.com/chromatograms/ja1927_a04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001159296

**ORF Size:** 771 bp

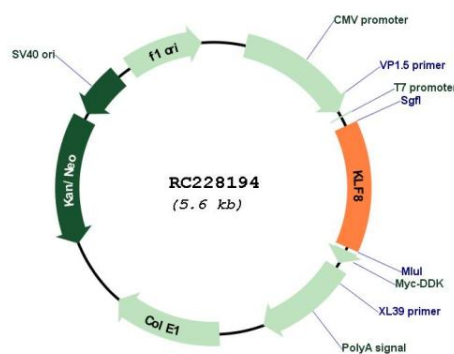
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001159296.2, NP_001152768.1</u>
<b>RefSeq ORF:</b>	774 bp
<b>Locus ID:</b>	11279
<b>UniProt ID:</b>	<u>O95600</u>
<b>Cytogenetics:</b>	Xp11.21
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	27.1 kDa
<b>Gene Summary:</b>	<p>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]</p>

## Product images:



Circular map for RC228194