

## Product datasheet for **RG228194**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KLF8 (NM\_001159296) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KLF8  
**Synonyms:** BKLF3; ZNF741  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228194 representing NM\_001159296  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTCGATATGGATAAACTCATAAACAACCTGGAGGTCCAACCTAATTCAGAAGGTGGCTCAATGCAGG  
 TATTCAAGCAGGTCAGTCTTCTGTTCCGGAACAGAGATCCCCCTGAGATAGAATACAGAAGTAATATGAC  
 TTCTCCAACACTCCTGGATGCCAACCCATGGAGAACCCAGCACTGTTAATGACATCAAGATTGAGCCC  
 CCAGAAGAAGCTTTGGCTAGTGATTTAGCCTGCCCAAGTGAACCAAGTTGACCTCTCCTTTCACAAGC  
 CCAAGGCTCCTCTCCAGCCTGCTAGCATGCTACAAGCTCCAATACGTCCCCCAAGCCACAGTCTTCTCC  
 CCAGACCCTTGTGGTGTCCACGTCAACATCTGACATGAGCACTTCAGCAAACATTCTACTGTTCTGACC  
 CCAGGCTCTGTCCTGACCTCCTCTCAGAGCACTGGTAGCCAGCAGATCTTACATGTCATTACACTATCC  
 CCTCAGTCAGTCTGCCAAATAAGATGGGTGGCCTGAAGACCATCCCAGTGGTAGTCAGTCTCTGCCAT  
 GGTGTATACTACTTTGCCTGCAGATGGGGGCCCTGCAGCCATTACAGTCCCACCTATTGGAGGAGATGGT  
 AAAAATGCTGGATCAGTAAAAGTTGACCCACCTCCATGTCTCCACTGAAATTCCAAAGTGACAGTGAGG  
 AGAGTACAATTGAGAGTGGATCCTCAGCCTTGCAGAGTCTGCAGGGACTACAGCAAGAGAGAGAAGCCTT  
 A

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228194 representing NM\_001159296  
Red=Cloning site Green=Tags(s)

MVDMDKL INNLEVQLNSEGGSMQVFKQVTASVRNRDPPEIEYRSNMTSPTLLDANPMENPALFNDIKIEP  
 PEELLASDFSLPQVEPVDLSFHKPKAPLQPASMLQAPIRPPKQSSPQTLVVSTSTSDMSTSANIPTVLT  
 PGSVLTSSQSTGSQQILHVIHTIPSVSLPNKMGGKLTIPVVVQSLPMVYTTLPADGGPAAITVPLIGGDG  
 KNAGSVKVDPTSMSPLEIPSDSEESTIESGSSALQSLQGLQQEREAL

TRTRPLE - GFP Tag - V

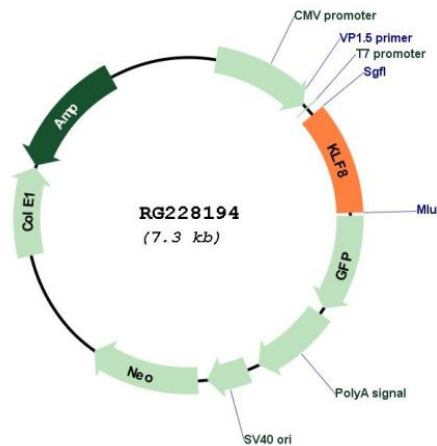
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**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.

**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](#), [NP\\_001152768.1](#)

**RefSeq Size:** 4821 bp

**RefSeq ORF:** 774 bp

**Locus ID:** 11279

**UniProt ID:** [O95600](#)

**Cytogenetics:** Xp11.21

**Protein Families:** Transcription Factors

**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]