

## Product datasheet for **MG226357**

### Klf2 (NM\_008452) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Klf2 (NM\_008452) Mouse Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: Klf2  
 Synonyms: Lklf  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >MG226357 representing NM\_008452  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCTCAGCGAGCCTATCTTGCCGTCTTTGCCACTTTCGCCAGCCCGTGCGAGCGCGGCTCCAGG  
 AGCGCTGGCCGCGAAATGAACCCGAGGCGGGCGGCACGGATGAGGACCTAAACAACGTGTTGGACTTCAT  
 CCTCTCCATGGGATTGGACGGTCTGGGCGCCGAGAATCCTCCGAGCCCCGCGCAGCCCCGCGCCT  
 GCCTTCTACTACCGGAGCCGGGTGCTCCGCCCCCTACAGCATCCCCGCGCCAGCCTGGGAACAGAGC  
 TGCTGCGCCCCGACCTGGACCCGCTCAGGGGCGGCTCTGCACGCGCTTCTCCTTGCGCTCCCG  
 GCGGCTAGTGAAGCCGAGCCCCCGAGGTGGACGGCGGGCTACGGCTGCGCTCCGGGCTGGCCAC  
 GGACCGCGCGGGCTGAAGCTCGAGGGCGCCCCAGGAGCGACAGGTGCATGCATGCGGGTCCCGCGGCC  
 GCCCCCGCGCCCGGACACGCCCGCTCAGCCCCGACGGCCCCCTGCGCATCCCGCGTCCGGTCC  
 ACGCAACCCGTTCCCGCCGCCCTTCGGTCCCGGCCAGCTTCGGCGCCCCGGCCCCGCTTGCCTAC  
 GGGCTCCCGCGCTGGCGCTTCGGTCTTTTCGAGGACGCGCGGCGAGCGGGCGGCGCTGGGCTTG  
 CTCCACCTGCCACGCGGGTCTCCTCACGCCCCCTCGTCCCCGCTGGAGCTGCTGGAGGCCAAGCCAA  
 ACGCGGCCGCGCTCTGGCCCCGAAGCGCGCCGCCACATACTTGCAGCTACACCAACTGCGGCAAG  
 ACCTACCAAGAGCTCGCACCTAAAGGCGCATCTGCGTACACACACAGGTGAGAAGCCTTATCATTGCA  
 ACTGGGAAGGATGCGGCTGGAAGTTCGCGGCTCTGACGAGCTTACCGCCACTACCGAAAGCACACAGG  
 TCACAGACCCCTTTCAGTGCCACTTGTGCGACCGGGCTTCTCCAGGTCCGACCACCTGGCCTTGACATG  
 AAGCGACACATG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226357 representing NM\_008452  
 Red=Cloning site Green=Tags(s)

MALSEPIILPSFATFASPCERGLQERWPRNEPEAGGTDEDLNNVLDLILSMGLDGLGAENPPEPPPQPPPP  
 AFYYPEPGAPPYSIPAASLGTLLRPDLDPQGPALHGRFLLAPPGRLVKAEPPEVDGGGYGCAPGLAH  
 GPRGLKLEGAPGATGACMRGPAGRPPPPDTPPLSPDGLRIPASGPRNPFPPFPGPSPFGGPGPALHY  
 GPPAPGAFGLFEDAAAAAALGLAPPATRGLLTPPSSPLELLEAKPKRGRRSWPRKRAATHTCSYTNCCK  
 TYTKSSHLKAHLRTHTEKPYHCNWECCGWKFARSEDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHM  
 KRHM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008452

**ORF Size:** 1062 bp

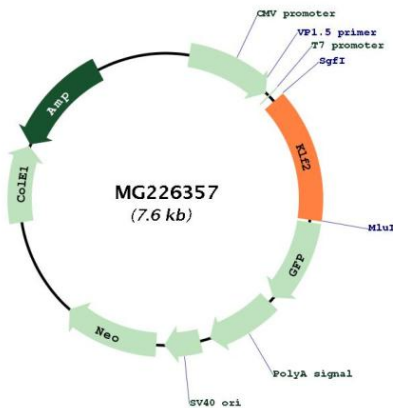
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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\\_008452.2](#), [NP\\_032478.2](#)
- RefSeq Size:** 1816 bp
- RefSeq ORF:** 1065 bp
- Locus ID:** 16598
- UniProt ID:** [Q60843](#)
- Cytogenetics:** 8 B3.3
- Gene Summary:** Transcription factor that binds to the CACCC box in the promoter of target genes such as HBB/beta globin or NOV and activates their transcription. Might be involved in transcriptional regulation by modulating the binding of the RARA nuclear receptor to RARE DNA elements (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG226357