

Product datasheet for **RG228174**

KLF6 (NM_001160124) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLF6 (NM_001160124) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLF6
Synonyms:	BCD1; CBA1; COPEB; CPBP; GBF; PAC1; ST12; ZF9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228174 representing NM_001160124 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGTGCTCCCATGTGCAGCATCTCCAGGAGCTCCAGATCGTGCACGAGACCGGCTACTTCTCGG
CGCTGCCGTCTCTGGAGGAGTACTGGCAACAGACCTGCCTAGAGCTGGAACGTTACCTCCAGAGCGAGCC
CTGCTATGTTTCAGCCTCAGAAATCAAATTTGACAGCCAGGAAGATCTGTGGACAAAATCATTCTGGCT
CGGGAGAAAAAGGAGGAATCCGAACTGAAGATATCTTCCAGTCTCCAGAGGACACTCTCATCAGCCGA
GCTTTTGTACAACCTTAGAGACCAACAGCCTGAACTCAGATGTCAGCAGGAATCCTCTGACAGCTCCGA
GGAACCTTCTCCACGGCAAGTTTACCTCCGACCCATTGGCGAAGTTTGGTCAGCTCGGAAAATTG
AGCTCCTCTGTCACCTCCACGCCTCCATCTTCTCCGAACTGAGCAGGGAACCTTCTCAACTGTGGGTT
GCGTGCCCGGGGAGCTGCCCTCGCCAGGGAAGGTGCGCAGCGGGACTTCGGGGAAGCCAGGAGAAAAGCC
TTACAGATGCTCATGGGAAGGTTGTGAGTGGCGTTTTTGAAGAAGTGATGAGTTAACCAGGCACTCCGA
AAGCACACCGGGCCAAGCCTTTTAAATGCTCCCACTGTGACAGGTGTTTTCCAGGTCTGACCACCTGG
CCCTGCACATGAAGAGGCACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228174 representing NM_001160124
Red=Cloning site Green=Tags(s)

MDVLPMSIFQELQIVHETGYFSALPSLEEYWQQTCLERLRYLQSEPCYVSASEIKFDSQEDLWTKIILA
 REKKEESELKISSPPEDTLISPSFCYNLETNSLNSDVSESSDSSEELSPAKFTSDPIGEVLVSSGKL
 SSSVTSTPPSSPELSREPSQLWGCVPGLPSPGKVRSGTSGKPGKPYRCSWEGCEWRFARSDDELTRHFR
 KHTGAKPFKCSHCDRCFSRSDHLALHMKRHL

TRTRPLE - GFP Tag - V

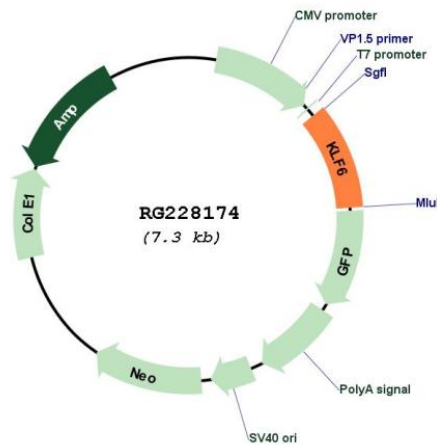
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001160124

ORF Size: 723 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 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_001160124.2](#)

RefSeq Size: 4553 bp

RefSeq ORF: 726 bp

Locus ID: 1316

UniProt ID: [Q99612](#)

Cytogenetics: 10p15.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: This gene encodes a member of the Kruppel-like family of transcription factors. The zinc finger protein is a transcriptional activator, and functions as a tumor suppressor. Multiple transcript variants encoding different isoforms have been found for this gene, some of which are implicated in carcinogenesis. [provided by RefSeq, May 2009]