

Product datasheet for **MG205402**

Klf8 (NM_173780) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klf8 (NM_173780) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Klf8
Synonyms:	A830097P10Rik; BKLF3; ZNF74
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205402 representing NM_173780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAAATTCATAGACAACATGGATGTCCGAATTAATCAGAAAGTGGTTCGATGCAGGTATTCAAAC
AGGTCAGTGGCCCTGTTCCGACCAGAGATCCTTCTGCGAGAGCAGACAGAAGGAATATGACTTCTCCATC
ATTCCTGGCTGCCAGCCCAATGGAGAACCAGCTCTGTTAATGATATCAAGATCGAGCCCCAGAAGAG
CTCCTGGAGAGTGATTTCAACATGCCCCAGGTGGAACCTGTTGATCTCTCCTTTCACAAACCGAAGGCTC
CGCTCCAGCCTGCTAGCATGCTGCAAGTCCAATCCGTCCTCCAAGCCACCGACTGCACCTCAAGCCAT
TATGGTGCCTACTTCAGCTGACACAGTCACTTCGGCAGCCATTCTACTGTTCTCACTCCGGGCTCTATC
CTGGCCTCGTCTCAGGGGACCGGTGGCCAGCCGATTTTACATGTGATCCACACCATCCCCCTCAGTCAGTT
TGCCAAATAAGATGAGTGGACTAAAGACAATCCCAGTGGTGGTCCAGTCTTTGCCTATGGTCTATACCAG
TCTGCCTACAGATGGGAGCCCTGCAGCCATTACTGTCCCAGTCAATGGAGGAGACGGCAAAAGTGTGGA
TCGGTCAAAGTTGACCCCGCTCCATGTGCCACTGGAGTTTCCAAGTGATAGTGATGAGAGTGCATTTG
AAAGTGGCTCTTCAGCCTTACAGAGTCTCCAGGGATTTTCATCATGAGCCAGCGACAATGGTCCACATGCA
GGGAGAAGAGTCTCTTGACTTAAAGAGAAGACGGATTCATCAGTGTGACTTTGCAGGATGCAGCAAAGTG
TACACCAAAGCTCTCACCTGAAAGCTCACCGCAGAATCCATACAGGAGAGAAGCCTTACAAGTGCACCT
GGGATGGCTGTTCTGGAATTTGCTCGCTCGGATGAGCTTACTCGCCATTTCCGTAAGCACACGGGCGAT
CAAGCCATTCCGGTGCACAGACTGCAACCGCAGTTTTTCTCGATCTGACCACTTGTCCCTCCACCGCCGG
CGTCATGACACCATG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205402 representing NM_173780
 Red=Cloning site Green=Tags(s)

MDKFIDNMDVRIKSESGSMQVFKQVTGPVPTRDPSARADRRNMTSPSFLAASPMENPALFNDIKIEPPEE
 LLESDFNMPQVEPVDL SFHKPKAPLQPASMLQAPIRPPKPPTAPQAIMVPTSADTVTSAAIPTVLTPGSI
 LASSQGTGGQPILHVIHTIPSVSLPNKMSGLKTIPLVVQSLPMVYTS LPTDGSAAITVPLIGGDGKSAG
 SVKVDPASMCPLFEPDSDESAIESGSSALQSLQGFHHEPATMVHMQEESLDLKRRIHQCDFAGCSKV
 YTKSSHLKAHRIHTGEKPYKCTWDGCSWKFARSDLTRHFRKHTGIKPFRICTDCNRSF SRSDDLHSLHRR
 RHDTM

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2411_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173780

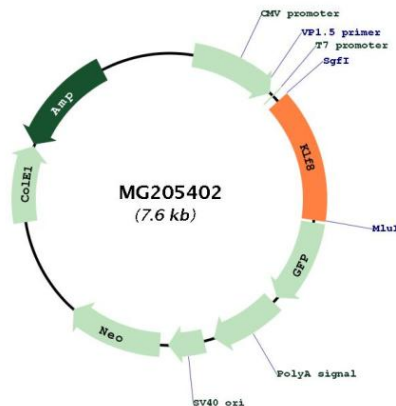
ORF Size: 1065 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_173780.5</u>
RefSeq Size:	4457 bp
RefSeq ORF:	1068 bp
Locus ID:	245671
UniProt ID:	<u>Q8BLM0</u>
Cytogenetics:	X F3
Gene Summary:	Transcriptional repressor and activator. Binds to CACCC-boxes promoter elements. Also binds the GT-box of cyclin D1 promoter and mediates cell cycle progression at G(1) phase as a downstream target of focal adhesion kinase (FAK) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205402