

Product datasheet for **RR204826**

Klf10 (NM_031135) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klf10 (NM_031135) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klf10
Synonyms:	Tieg
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR204826 representing NM_031135
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTAACTTCGGCGTCTCTCCAGCAAGCTTCGGAGGGGAAAATGGAACATAATTTCTGAAAAGTCCA
 AAGAGGGAGCACATCCCTGGGACAAAGCTGAACAGAGTACTTTGAAGCTGTGGAAGCGCTCATGTCCAT
 GAGCTGCGACTGGAAGTCTCACTTCAAGAAATACCTTGAAAACAGGCCTGTCACACCAGTGTCTGATACC
 TCAGAGGAAGACAGTTTCTCCAGGGACGCTGACCTTCAGACCGTCCCAGCATTCTGTTTGACTCCAC
 CTTACAGCCCCTCTGACTTCGAACCCTCGCAGGGGTCAAATCTGACGGCACCCAGCGCCACCTACTGGTCA
 CTTCAGATCGCTCCGATGCTGCCAAGCCTCCCAGCATCGCTCCTTTAAAGAGGAGGAAAAGAGCCCA
 TTAGTGCCCTCCCTCCCTAAGGCTCAAGCCACCAGTGTATCCGTACACAGCTGATGCCAACTCT
 GTAACCACCAGTCTGCCCTGTGAAAGCAGCTAGCATCCTCAACTACCAGGACAATCTTTCCGGAGAAG
 AACCCACATAAATGTCGAGGCTACTCGAAAGAACATACCTGTGTGCTGTGTCCACAAACAGACCCAAG
 CCTGAGCCAGCACAGCGCGAATGGCGCTGAGAAGGCCGGCACTGCGCCGTATGACTTTGCTGTGCCTT
 CCTCAGAGACAGTCATCTGTAGGTCTTCTCAGCCAGCTCCCACGTCCCCAGTACAGAAGTCAGTACTGAT
 GTCTTACCTACAGTGTCCACTGGGGAGTGCCACCCTTGCTGTCTGTCATCTGCCAGATGGTTCCCCTTCCA
 GCAAACAACCTCTCTGTTACCACAGTTGTCCCCAGCAGTCCGCCAGCCAGCCACCCGCTGTCTGCTCAC
 CCGTGTGTTTCATGGGCACTCAGGTGCCAAGGGCACGGTCATGTTTGTGGTACCCAGCCCGTTGTACA
 GAGCCCAAAGCCTCCAGTGGTGAAGCCCAATGGCACCAGACTGTCTCCATTGCCCTGCGCCTGGATTC
 TCTCCTCAGCAGCAAGGGTACTCCCCAGATTGATTGTCGTCAGAGTAAGAAGTCACATCTGTAGCCACC
 CAGGATGTGGCAAGACTTACTTTAAAAGTCCCATCTGAAGGCCACGTGAGAACACACAGGGGAAAA
 ACCTTTCAGCTGCAGCTGGAAGGCTGTGAAAGGAGTTTGTCTGTTCCGATGAACGTGCCAGACACCGG
 CGGACACACAGGTGAGAAGAAATTTGCTGTCCATGTGTGACCGTGGTTCATGAGAAGTGACCATT
 TAACCAACATGCCCGCGACACCTATCAGCCAAGAAGCTGCCAACTGGCAAATGGAAGTGAGCAAGT
 AAATGACATCGCTCTGCCTCCGGCCACAGCGTCCGGCACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204826 representing NM_031135
 Red=Cloning site Green=Tags(s)

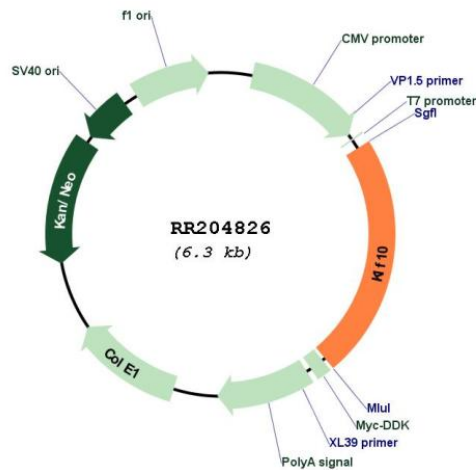
MLNFGASLQQASEGKMEI SEKSKEGAHPWDKAEQSDFEAVEALMSMSCDWKSHFKKYLENRPVTPVSDT
 SEEDSLLPGTDLQTPAFCLTPPYSPDFEPSQGSNL TAPAPPTGHFRSLSDAAKPPSIAPFKEEEKSP
 LAAPPLPKAQATSVIRHTADAQLCNHQSCPVKAASILNYQDNSFRRRTHINVEATRKNIPCAAVSPNRPK
 PEPSTAANGAEKAGTAPYDFAVPSSETVICRSSQPAPTSVPVQKSVLMSSPTVSTGGVPLPVICQMVPLP
 ANNSLVTTVVPPSPSPQPPAVCSPLVFMGTQVPKGTVMFVVPQPVVQSPKPPVSPNGTRLSPFIAPAPGF
 SPSAARVTPQIDSSRVRSIICSHPGCGKTYFKSSHLKAHVTRHTGEKPFSCSWKGCERRFARSDEL SRHR
 RTHTGEKKFACPMCDRRFMRS DHLT KHARRHLSAKKLPNWQMEVSKLNDIALPPATASAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_031135

ORF Size:

1440 bp

OTI Disclaimer:

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_031135.2](#), [NP_112397.1](#)

RefSeq Size: 2962 bp

RefSeq ORF: 1443 bp

Locus ID: 81813

UniProt ID: [O08876](#)

Cytogenetics: 7q22

MW: 51.8 kDa

Gene Summary: Kruppel-like zinc finger transcription factor; involved in TGFbeta-mediated signaling cascades to the regulation of pancreatic epithelial cell growth [RGD, Feb 2006]