

Product datasheet for RC232340

KLF7 (NM_001270943) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLF7 (NM_001270943) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLF7
Synonyms:	UKLF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232340 representing NM_001270943 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACATGCCTTGAATTGGAACGCTACCTACAGACGGAGCCCGGAGGATCTCAGAGACCTTTGGTGAAG
ACTTGGACTGTTTCCCTCCAGCTTCCCCTCCCCCGTGCATTGAGGAAAGCTTCCGTCGCTTAGACCCCT
GCTGCTCCCCGTGGAAGCGGCCATCTGTGAGAAGAGCTCGGCAGTGGACATCTTGCTCTCTCGGGACAAG
TTGCTATCTGAGACCTGCCTCAGCCTCCAGCCGGCCAGCTCTTCTCTAGACAGCTACACAGCCGTC AAC
AGGCCAGCTCAACGCAGTGACCTCATTAAACGCCCCATCGTCCCCTGAGCTCAGCCGCCATCTGGTCAA
AACCTCACA AACTCTCTGCGGTGGATGGCACGGTGACGTTGAAACTGGTGGCCAAGAAGGCTGCTCTC
AGCTCCGTAAAGGTGGGAGGGTCGCAACAGCTGCAGCAGCCGTGACGGCTGCGGGGGCCGTTAAGAGTG
GACAGAGCGACAGTGACCAAGGAGGGCTAGGGGCTGAAGCATGTCCC GAAAACAAGAAGGGTTACCCG
CTGTCAGTTTAAAGGGTCCCGAAAGTTTATACAAAAGCTCCCCTTAAAGGCCACCAGAGGACTCAC
ACAGGTGAGAAGCCTTAAAGTGCTCATGGGAGGGATGTGAGTGGCGTTTGCACGAAGCGATGAGCTCA
CGAGGCACTACAGGAAACACACAGGTGCAAAGCCCTTCAAATGCAACCACTGCGACAGGTGTTTTCCAG
GTCTGACCATCTTGCCCTCCACATGAAGAGACATATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232340 representing NM_001270943
Red=Cloning site Green=Tags(s)

MTCLELERYLQTEPRRISETFGEDLDCFLHASPPPCIEESFRRLDPLLLPVEAAICEKSSAVDILLSRDK
 LLSETCLSLQPASSSLDSYTAVNQAQLNAVTSLTPPSSPELSRHLVKTSQTL SAVDGTVTLKLVAKKAAL
 SSVKVGAVATAAAAVTAAGAVKSGQSDSDQGLGAEACPENKKRVHRCQFNGCRKYVTKSSHLKAHQRT
 TGEKPKYKCSWEGCEWRFARSDELTRHYRKHTGAKPFKCNHCDCRF SRSDHLALHMKRHI

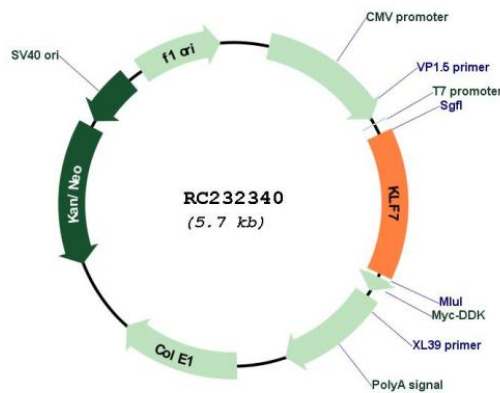
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270943
ORF Size: 807 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:	<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:	NM_001270943.1 , NP_001257872.1
RefSeq Size:	7990 bp
RefSeq ORF:	810 bp
Locus ID:	8609
UniProt ID:	O75840
Cytogenetics:	2q33.3
Protein Families:	Transcription Factors
MW:	30 kDa
Gene Summary:	The protein encoded by this gene is a member of the Kruppel-like transcriptional regulator family. Members in this family regulate cell proliferation, differentiation and survival and contain three C2H2 zinc fingers at the C-terminus that mediate binding to GC-rich sites. This protein may contribute to the progression of type 2 diabetes by inhibiting insulin expression and secretion in pancreatic beta-cells and by deregulating adipocytokine secretion in adipocytes. A pseudogene of this gene is located on the long arm of chromosome 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]