

Product datasheet for **RC202028**

KLF10 (NM_001032282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLF10 (NM_001032282) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLF10
Synonyms:	EGR-alpha; EGRA; TIEG; TIEG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202028 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGAAAGAATGAAATGATTTCTGAAAGGCCAAAAGAGAGTATGTATTCTGGAACAAAACCTGCAG
 AGAAAAGTGATTTTGAAGCTGTAGAAGCACTTATGTCAATGAGCTGCAGTTGGAAGTCTGATTTTAAAGAA
 ATACGTTGAAAACAGACCTGTTACACCAGTATCTGATTTGTCAGAGGAAGAGAATCTGCTCCGGGAACA
 CCTGATTTTCATAACAATCCCAGCATTTTGTGACTCCACCTTACAGTCCTTCTGACTTTGAACCTCTC
 AAGTGTCAAATCTGATGGCACCAGCGCCATCTACTGTACACTTCAAGTCACTCTCAGATACTGCCAAACC
 TCACATTGCCGCACCTTTCAAAGAGGAAGAAAAGAGCCAGTATCTGCCCCAAACTCCCCAAAGCTCAG
 GCAACAAGTGTGATTCGTACACAGCTGATGCCAGCTATGTAACCACCAGACCTGCCCAATGAAAGCAG
 CCAGCATCTCAACTATCAGAACAATTTTGAAGAAGAACCACCTAAATGTTGAGGCTGCAAGAAA
 GAACATACCATGTCCGCTGTGTACCAACAGATCCAAATGTGAGAGAAACACAGTGGCAGATGTTGAT
 GAGAAAGCAAGTCTGCACTTTATGACTTTTCTGTGCCTTCTCAGAGACGGTCACTCTGCAGGTCTCAGC
 CAGCCCTGTGTCCCAACAAGAGTCAAGTGTGGTCTCTCCACCTGCAGTATCTGCAGGGGAGTGCC
 ACCTATGCCGGTCATCTGCCAGATGTTCCCTTCTGCCAACAAACCCTGTTGTGACAACAGTCTGTTCC
 AGCACTCTCCAGCCAGCCACCAGCCGTTGCCCCCTGTTGTGTTTATGGGCACACAAGTCCCCAAAG
 GCGCTGTGATGTTGTGGTACCCAGCCGTTGTGCAGAGTTCAAAGCCTCCGGTGGTGAAGCCGAATGG
 CACCAGACTCTCTCCATTGCCCTGCTCTGGGTTTTCCCTTCCAGCAGAAAAGTCACTCCTCAGATT
 GATTCATCAAGGATAAGGAGTACATCTGTAGCCACCCAGGATGTGGCAAGACATACTTTAAAAGTTCCC
 ATCTGAAGGCCACACGAGGACGACACAGGAGAAAAGCCTTTCCAGCTGTAGTGGAAAGGTTGTGAAAG
 GAGGTTTGCCTGTTCTGATGAACTGTCCAGACACAGGCGAACCCACACGGGTGAGAAGAAAATTTGCGTGC
 CCCATGTGTGACCGCGGTTTATGAGGAGTGACATTTGACCAAGCATGCCCGGCCCATCTATAGCCA
 AGAAGCTACAAACTGGCAGATGGAAGTGAAGCTAAATGACATTGCTCTACCTCCAACCCCTGCTCC
 CACACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202028 protein sequence
 Red=Cloning site Green=Tags(s)

MEERMEMISERPKE SMYWNKTAEKSDFEAVEALMSMSCSWKSDFKKYVENRPVTPVSDLSEENLLPGT
 PDFHTIPAFCLTPPYSPDFEPSQVSNLMAPAPSTVHFKLSLSDTAKPHIAAPFKEEEKSPVSAPKLPKAQ
 ATSVIRHTADAQLCNHQTCPMKAASILNYQNSFRRRTHLNVEAARKNIPCAA VSPNRSKERNVADVD
 EKASAALYDFSVPSSETVICRSQPAPVSPQKSVLVSPPAVSAGGVPPMPVICQMVPLANNPVVTTVVP
 STPPSQPPAVCPPVFMGTQVPGAVMFVVPQPVVQSSKPPVSPNGTRLSP IAPAPGFSPSAAKVTPQI
 DSSRIRSHICSHPGCGKTYFKSSHLKAHTRHTGEKPFSCSWKGCERRFARSDEL SRHRRHTGKFKFAC
 PMCDRRFMRS DHLT KHARRHL SAKKLPNWQMEVSKLNDIALPPTPAPTQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6303_f05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001032282

ORF Size: 1407 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_001032282.3](#)
RefSeq Size: 3273 bp

RefSeq ORF: 1410 bp

Locus ID: 7071

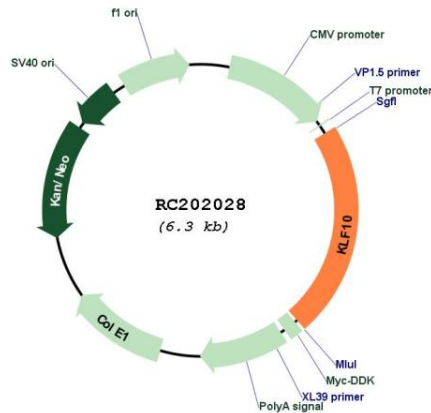
UniProt ID: [Q13118](#)
Cytogenetics: 8q22.3

Protein Families: Druggable Genome, Transcription Factors

MW: 51.4 kDa

Gene Summary: This gene encodes a member of a family of proteins that feature C2H2-type zinc finger domains. The encoded protein is a transcriptional repressor that acts as an effector of transforming growth factor beta signaling. Activity of this protein may inhibit the growth of cancers, particularly pancreatic cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RC202028