

Product datasheet for SC322280

KLF10 (NM_001032282) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLF10 (NM_001032282) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLF10
Synonyms:	EGR-alpha; EGRA; TIEG; TIEG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322280
 CTCACGCTCTCTTCCCTGCCGCTGCCTTTCTTTTTCTTTTTTGTATTGGCGTCTT
 GGGGCTGTTACACACACGCGCTGTCCATTGCAGCTTACATAAAGCGGGCGGATTAT
 GCAATTATATTGTTAGCGATATTTCAAGAGCAATGGCTCGTTTTCTTAGGATTTCAACAC
 GAAGGCATCATGATTTTTGAAAACTAGTATTGAGAATAATACCTTGCAACGTAAGAA
 TGTTTTTGGTATTTTTACACAATCTCTACTTTGACAAACGAGTCTGGACAGTTTTCTT
 TTAATGGAAAATAGGAGAAATGGAGGAAAGAAATGGAAATGATTTCTGAAAGGCCAAAAGA
 GAGTATGTATTCTGGAACAAAAGTGCAGAGAAAAGTATTTTGAAGCTGTAGAAGCACT
 TATGTCAATGAGCTGCAGTTGGAAGTCTGATTTAAGAAATACGTTGAAAACAGACCTGT
 TACACCAGTATCTGATTTGTCAGAGGAAGAGAATCTGCTCCGGGAACACCTGATTTTCA
 TACAATCCAGCATTTTGTGTTGACTCCACCTTACAGTCTTCTGACTTTGAACCTCTCA
 AGTGTCAAATCTGATGGCACCAGCGCCATCTACTGTACACTTCAAGTCACTCTCAGATAC
 TGCCAAACCTCACATTGCCGCACCTTCAAGAGGAAAGAAAAGAGCCAGTATCTGCCCC
 CAAACTCCCCAAAGCTCAGGCAACAAGTGTGATTGCTCATACAGCTGATGCCAGCTATG
 TAACCACCAGACCTGCCAATGAAAGCAGCCAGCATCCTCAACTATCAGAACAATCTTTT
 TAGAAGAAGAACCACCTAAATGTTGAGGCTGCAAGAAAGAACATACCATGTGCCGCTGT
 GTCACCAAACAGATCCAAATGTGAGAGAAAACACAGTGGCAGATGTTGATGAGAAAGCAAG
 TGCTGCACTTTATGACTTTTCTGTGCCTTCCTCAGAGACGGTCATCTGCAGGTCTCAGCC
 AGCCCCGTGTCCCCACAACAGAAGTCAAGTGTGTTGTTCTCTCCACCTGCAGTATCTGCAGG
 GGGAGTGCCACCTATGCCGGTCATCTGCCAGATGGTTCCCTTCCCTGCCAACAACCCTGT
 TGTGACAACAGTCGTTCCAGCACTCTCCAGCCAGCCACCAGCCGTTTCCCCCTGT
 TGTGTTTATGGGCACACAAGTCCCCAAAGGCGCTGTCATGTTTGGTACCCAGCCCGT
 TGTGCAGAGTTCAAAGCCTCCGGTGGTGGAGCCGAATGGCACCAGACTCTCTCCATTGC
 CCCTGCTCTGGGTTTTCCCTTCAGCAGCAAAAGTCACTCTCAGATTGATTTCATCAAG
 GATAAGGAGTCACATCTGTAGCCACCCAGGATGTGGCAAGACATACTTTAAAAGTCCCA
 TCTGAAGGCCACACGAGGACGCACACAGGAGAAAAGCCTTTCAGCTGTAGCTGGAAAGG
 TTGTGAAAGGAGTTTGGCCGTTCTGATGAACTGTCCAGACACAGGCCAACCACACGGG



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TGAGAAGAAATTTGCGTGCCCCATGTGTGACCGCGGTTTCATGAGGAGTGACCATTTGAC
 CAAGCATGCCCGGCCATCTATCAGCCAAGAAGCTACCAAACCTGGCAGATGGAAGTGAG
 CAAGCTAAATGACATTGCTCTACCTCCAACCCCTGCTCCACACAGTGACAGACCGGAAA
 GTGAAGAGTCAGAACTAACTTTGGTCTCAGCGGGAGCCAGTGGTGTGTAATAATGCTTC
 CACTGCAAGTCTGTGGCCCCACAACGTGGGCTTAAAGCAGAAGCCCCACAGCCTGGCAGC
 AAGGCCCGCTGCGGTTAGGTGACTAAAAGGGCTTCGGCCACAGGCAGGTCACAGAAAGG
 CAGGTTTCATTTCTTATCACATAAGAGAGATGAGAAAGCTTTTATTCCTTTGAATATTTT
 TTGAAGGTTTCAGATGAGGTCAACACAGGTAGCACAGATTTTGAATCTGTGTGCATATTT
 GTTACTTTACTTTTGTGTTTATACTTGAGACCAACTTTTCAATGTGATTCTTCTAAAGC
 ACTGGTTTCAAGAATATGGAGGCTGGAAGGAAATAAACATTACGGTACAGACATGGAGAT
 GTAAAATGAGTTTGATTATTACAAATATTGTCATCTTTTTCTAGAGTTATCTTCTTTAT
 TATTCCTAGTCTTCCAGTCAACATCGTGGATGTAGTGATTAATATATCTAGAATATC
 ATTTTTACTACTATTGTGAATATTTGGAATTGAACGACTGTATATTGCTAAGAGGGCCCAA
 AGAATTGGAATCCTCCTAATTTAATTGCTTTGAAGCATAGCTACAATTTGTTTTGCAT
 TTTTGTGTTTGAAGTTTAAACAAATGACTGTATCTAGGCATTTTCATTATGCTTTGAACTTT
 AGTTTGCCTGCAGTTTCTGTGTAGATTTGAAAATGTATACCAATGTGTTTTCTGTAGA
 CTCTAAGATACACTGCACTTTGTTTAGAAAAAACTGAAGATGAAATATATATTGTAAA
 GAAGGGATATTAAGAATCTTAGATAACTTCTTGAAAAGATGGCTTATGTCATCAGTAAA
 GTACCTTTATGTTATGAGGATATAATGTGTGCTTTATTGAATTAGAAAATTAGTGACCAT
 TATTCACAGGTGGACAAATGTTGTCCTGTTAATTTATAGGAGTTTTTGGGGATGTGGAG
 GTAGTTGGGTAGAAAAATTATTAGAACATTCACTTTTGTTAACAGTATTTCTCTTTTATT
 CTGTTATATAGTGGATGATATACACAGTGGCAAAACAAAAGTACATTGCTTAAAAATAT
 AGTGAAAAATGCACTATATCTCCCATTTAACATTGTTTTGTATATTGGGTGTAGATT
 TCTGACATCAAAACTTGGACCCTTGAAAAACAAAAGTTTTAATTAAAAAAATCCTTGTG
 ACTTACAATTTGCACAATATTTCTTTTGTGTACTTTATATCTTGTTTACAATAAAGAAT
 TCCCTTTGGTAAAAAATAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_001032282

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001032282.1](#), [NP_001027453.1](#)

RefSeq Size: 3085 bp

RefSeq ORF: 1410 bp

Locus ID: 7071

UniProt ID: [Q13118](#)

Cytogenetics: 8q22.3

Protein Families: Druggable Genome, Transcription Factors

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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) is shorter and has a distinct N-terminus, compared to isoform a.