

## Product datasheet for **RG210565**

### **KLF10 (NM\_005655) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KLF10 (NM_005655) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLF10
Synonyms:	EGR-alpha; EGRA; TIEG; TIEG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210565 representing NM\_005655  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCTCAACTTCGGTGCCTCTCTCCAGCAGACTGCGGAGGAAAGAATGGAATGATTTCTGAAAGGCCAA  
 AAGAGAGTATGTATTCTGGAACAAAAGCTGCAGAGAAAAGTGATTTTGAAGCTGTAGAAGCACTTATGTC  
 AATGAGCTGCAGTTGGAAGTCTGATTTTAAAGAAATACGTTGAAAACAGACCTGTTACACCACTATCTGAT  
 TTGTCAGAGGAAGAGAATCTGCTTCCGGGAACACCTGATTTTTCATACAATCCCAGCATTTTGTGACTC  
 CACCTTACAGTCTTCTGACTTTGAACCCTCTCAAGTGTCAAATCTGATGGCACCAGCGCCATCTACTGT  
 ACACCTCAAGTCACTCTCAGATACTGCCAAACCTCACATTGCCGCACCTTTCAAAGAGGAAGAAAAGAGC  
 CCAGTATCTGCCCCAACTCCCAAAGCTCAGGCAACAAGTGTGATTCGTCATACAGCTGATGCCCAGC  
 TATGTAACCACCAGACTGCCCAATGAAAGCAGCCAGCATCCTCAACTATCAGAACAATCTTTTAGAAG  
 AAGAACCACCTAAATGTTGAGGCTGCAAGAAAGAACATACCATGTGCCGCTGTGTACCAAACAGATCC  
 AAATGTGAGAGAAACACAGTGGCAGATGTTGATGAGAAAGCAAGTGTGACTTTATGACTTTTCTGTGC  
 CTTCTCAGAGACGGTCACTCTGCAGGTCTCAGCCAGCCCCTGTGTCCCCACAACGAAAGTCAAGTGTGGT  
 CTCTCCACCTGCAGTATCTGCAGGGGAGTGCCACCTATGCCGGTCACTGTCAGATGGTCCCCTTCT  
 GCCAACACCCTGTTGTGACAACAGTCTTCCAGCACTCCTCCAGCCAGCCACCAGCCGTTTGGCCCC  
 CTGTTGTGTTTATGGGCACACAAGTCCCCAAAGGCGTGTGATTTTGGTACCCAGCCCGTTGTGCA  
 GAGTTCAAAGCCTCCGGTGGTGAAGCCGAATGGCACCAGACTCTCCCATTGCCCTGCTCCTGGGTTT  
 TCCCCTCAGCAGCAAAGTCACTCCTCAGATTGATTCATCAAGGATAAGGAGTCACATCTGTAGCCACC  
 CAGGATGTGGCAAGACATACTTTAAAAGTTCCCATCTGAAGGCCACACGAGGACGACACAGGAGAAAA  
 GCCTTTCAGCTGTAGCTGAAAGGTTGTGAAAGGAGGTTTGGCCGTTCTGATGAACTGTCCAGACACAGG  
 CGAACCCACAGGGTGAAGAAATTTGCGTGCCCATGTGTGACCGGCGGTTTATGAGGAGTGACCATT  
 TGACCAAGCATGCCCGGCCATCTATCAGCCAAGAAGCTACCAAAGTGGCAGATGGAAGTGAAGCAAGT  
 AAATGACATTGCTCTACCTCCAACCCCTGCTCCACACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG210565 representing NM\_005655  
 Red=Cloning site Green=Tags(s)

MLNFGASLQQTAERMEMISERPKESMYSWNKTAEKSDFEAVEALMSMSCSWKSDFKKYVENRPVTPVSD  
 LSEENLLPGTPDFHTIPAFCLTPPYSPDFEPSQVSNLMAPAPSTVHFKSLSDTAKPHIAAPFKKEEKS  
 PVSAPKLPKAQATSVIRHTADAQLCNHQTCPMKAASILNYQNNFRRRRHLNVEAARKNIPCAAVSPNRS  
 KCERNTVADVDEKASAALYDFSVPSSETVICRSQPAPVSPQKSVLVSPPAVSAGGVPPMPVICQMVPLP  
 ANNPVVTVVVSTPPSPPAVCPVVFMTQVPGAVMFVVPQVQSSKPPVSPNGTRLSPAIAPAPGF  
 SPSAAKVTPQIDSSRIRSHICSHPGCGKTYFKSSHLKAHTRHTGKPFSCSWKGCERRFARSDLSRHR  
 RHTGKFKFACPMCDRRFMRSDDLTKHARRHLSAKKLPNWQMEVSKLNDIALPPTPAPTQ

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005655

**ORF Size:** 1440 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](mailto: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](#)

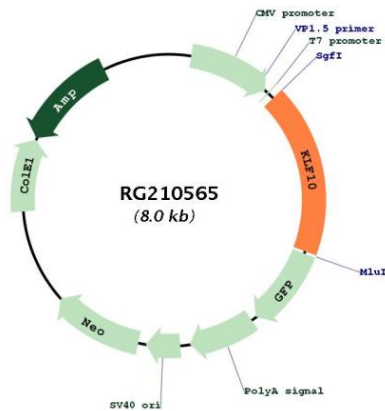
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**
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:	<a href="#">NM_005655.4</a>
RefSeq Size:	2899 bp
RefSeq ORF:	1443 bp
Locus ID:	7071
UniProt ID:	<a href="#">Q13118</a>
Cytogenetics:	8q22.3
Domains:	zf-C2H2
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]

### Product images:



Circular map for RG210565