

## Product datasheet for **RG215688**

### **KLF7 (NM\_003709) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KLF7 (NM_003709) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLF7
Synonyms:	UKLF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215688 representing NM_003709 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGTGTTGGCTAGTTATAGTATATTCCAGGAGCTACAACCTGTCCACGACACCGGCTACTTCTCAG  
CTTTACCATCCCTGGAGGAGACCTGGCAGCAGACATGCCTTGAATTGGAACGCTACCTACAGACGGAGCC  
CCGGAGGATCTCAGAGACCTTTGGTGAGGACTTGGACTGTTTCTCCACGCTTCCCCTCCCCGTGCATT  
GAGGAAAGCTTCCGTCGCTTAGACCCCCTGCTGCTCCCCGTGGAAGCGGCCATCTGTGAGAAGAGCTCGG  
CAGTGGACATCTTGTCTCTCGGACAAGTTGCTATCTGAGACCTGCCTCAGCCTCCAGCCGGCCAGCTC  
TTCTCTAGACAGCTACACAGCCGTCACACAGGCCAGCTCAACGAGTGACCTCATTAAACGCCCCCATCG  
TCCCCTGAGCTCAGCCGCCATCTGGTCAAAACCTCACAACTCTCTGCCGTGGATGGCAGGTTGACGT  
TGAAACTGGTGGCCAAGAAGGCTGCTCTCAGCTCCGTAAGGTGGGAGGGGTCGCAACAGCTGCAGCAGC  
CGTGACGGCTGCGGGGCGGTTAAGAGTGGACAGAGCGACAGTGACCAAGGAGGGCTAGGGGCTGAAGCA  
TGTCCGAAAACAAGAAGAGGGTTCACCGCTGTGAGTTTAAACGGGTGCCGAAAGTTTATACAAAAGCT  
CCCCTTAAAGGCCACCAGAGGACTCACACAGGTGAGAAGCCTTATAAGTGCTCATGGGAGGGATGTGA  
GTGGCGTTTTGCACGAAGCGATGAGCTCACGAGGCACTACAGGAAACACACAGGTGCAAAGCCCTTCAA  
TGCAACCACTGCGACAGGTGTTTTCCAGGTCTGACCATTTGCCCTCCACATGAAGAGACATATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215688 representing NM\_003709  
 Red=Cloning site Green=Tags(s)

MDVLASYSIFQELQLVHDTGYFSALPSLEETWQQTCLLERYLQTEPRRISETFGEDLDCFLHASPPPCI  
 EESFRRLDPLLLPVEAAICEKSSAVDILLSRDKLLSETCLSLQPASSSLDSYAVNQAQLNAVTSLTTPPS  
 SPELSRHLVKTSQTL SAVDGTVTLKLVAKKAALSSVKVGVATAAAVTAAGAVKSGQSDSDQGGGAEAA  
 CPENKKRVHRCQFNGCRKVYTKSSHLKAHQRTHTGKPYKCSWEGCEWRFARSDELTRHYRKHTGAKPFK  
 CNHCDCRCFSRSDHLALHMKRHI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003709

**ORF Size:** 906 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\\_003709.3](#)

**RefSeq Size:** 1640 bp

**RefSeq ORF:** 909 bp

**Locus ID:** 8609

**UniProt ID:** [O75840](#)

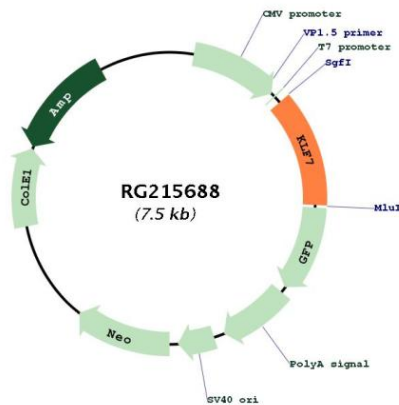
**Cytogenetics:** 2q33.3

**Domains:** zf-C2H2

**Protein Families:** Transcription Factors

**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]

### Product images:



Circular map for RG215688