

Product datasheet for **RG230175**

FKLF / KLF11 (KLF11) (NM_001177718) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FKLF / KLF11 (KLF11) (NM_001177718) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLF11
Synonyms:	FKLF; FKLF1; MODY7; TIEG2; Tieg3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230175 representing NM_001177718
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACATATGTGAGTCCATCCTGGAGAGGAAGCGGCATGACAGCGAAAGGTCTACTTGCAGCATCTTGG
 AGCAGACAGACATGGAAGCTGTCGAGGCTCTTGTGGTATGAGCTCCTGGGGTCAAAGATCCCAGAAAGG
 TGACCTGTTGCGGATAAGACCCCTCACGCTGTCTGACTCTGGGGATGTCACCACCACTGTGCATATG
 GATGCAGCCACACCTGAACTACCAAAGACTTCCATTCTTTATCGACTCTGTGCATAACTCCTCCTCAGA
 GCCCTGATCTCGTGGAGCCATCGACAAGGACACCTGTTTCTCCCAAGTAAACAGATTCCAAGCATGTAC
 AGCCACGGATGTTCTCCAGTCTCTGCCGTAGTGGCCAGAGCTCTGAGCGGGGGCGGGAGAGGGGCTTG
 CTGGGTTTGGAGCCAGTCCCAGCTCTCCCTGCAGGGCCAAGGGGACTAGCGTGATCCGACACACTGGGG
 AGAGCCCTGCTGCCTGCTTCCACCATCCAGACTCCAGATTGCCGGCTTCTGACAGCAGAGAAGGAGA
 AGAGCAGCTTCTGGGACACTTTGAAACTTTCAGGACACACACCTCACGGACAGTTTACTCAGCTAAC
 TTGGTGTCTGTAGCCCTGCTTGCACAAGTCTGGTGGCCTGCTGCTCACTGACAAGGCCAGCAGGCGAG
 GGTGGCCTGGTGCAGTTCAGACTTGCTCACAAAGAATTATGAAAATGACCTGCCAGGAAAACACCCC
 TCTGATTTCTGTCTGTCCCTGCTCCCTGTCTTTGCCAGATGATCCCTGTGACTGGACAAAGTAGC
 ATGTTACCAGCTTTTTGAAGCCCCCTCCCAGTTGTCTGTGGGGACTGTGAGACCCATCCTAGCTCAGG
 CTGCTCCAGCGCCTCAACCTGTGTTCTGTGGGACCTGCTGTGCCTCAGGGAGCTGTGATGTTGGTCTGCC
 CCAGGGAGCCCTCCCTCCGCTGCCCTGTGCAGCCAATGTCATGGTGCCGGGAATACCAAGTTGTTG
 CCCCTTGCCCTGCTCCAGTGTTCATCACCTTAGCCAAAAGTGTCCCTCAGGTAGACTTTTCCCGAA
 GGAGGAACATGTTTGCAGCTTCCAGTTGCCGGAAGACCTACTTCAAAGTTCACCTTAAGGCCCA
 TCTTCGCACTCACACAGGGGAGAAGCCTTCAACTGCAGCTGGGATGGCTGTGATAAAAAGTTTGTCTCGT
 TCGGATGAGCTGTACGCCACCGCAGAAGTTCACACAGGGGAGAAGAAGTTTGTGTGCCCGGTGTGTGACC
 GACGTTTTCATGCGCAGTGACCACCTGACGAAGCATGCCCGGCCACATGACGACCAAGAAGATCCGAGG
 CTGGCAGGAGAGGTTGGCAAGCTGAACAGAATCGCTCTGCAGAGAGCCCGGGGAGCCACTGGTGTGAGC
 ATGCCAGCTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230175 representing NM_001177718
 Red=Cloning site Green=Tags(s)

MDICESILERKRHDSERSTCSILEQTDMEAVEALVCMSSWGQRSQKGDLLRIRPLTPVSDSGDVTTVVHM
 DAATPELPKDFHSLSTLCITPPQSPDLVEPSTRTPVSPQVTDKACTATDVLQSSAVVARALSGGAERGL
 LGLEPVPSSPCRAKGTSVIRHTGESPAACFPTIQTPDCRLSDSREGEEQLLGHFETLQDTHLTDSLLSTN
 LVSCQPCLHKSGLLLLTDKGQQAGWPGAVQTCSPKNYENDLPRKTTPLISVSVAPPVLCQMIPVTGQSS
 MLPAFLKPPPQLSVGTVRPILAQAAPAPQPVFVGPVAVPQAVMLVLPQGALPPPAPCAANVMAAGNTKLL
 PLAPAPVFITSSQNCVPQVDFSRRRNYVCSFPGCRKTYFKSSHLKAHLRHTHTGEKPFNCSDWGDCKKFAR
 SDELSRHRHTHTGEKKFVCPVCDRRFMRSDDLTKHARRHMTTKIPGWQAEVGLNRIASAESPGSPLVS
 MPASA

TRTRPLE - GFP Tag - V

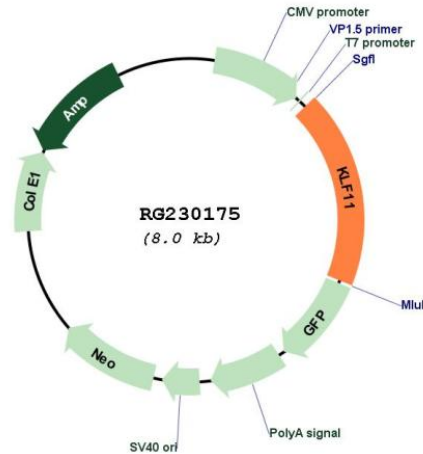
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN:	NM_001177718
ORF Size:	1485 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:	<u>NM_001177718.1, NP_001171189.1</u>
RefSeq Size:	4054 bp
RefSeq ORF:	1488 bp
Locus ID:	8462
UniProt ID:	<u>O14901</u>
Cytogenetics:	2p25.1
Protein Families:	Transcription Factors
Gene Summary:	The protein encoded by this gene is a zinc finger transcription factor that binds to SP1-like sequences in epsilon- and gamma-globin gene promoters. This binding inhibits cell growth and causes apoptosis. Defects in this gene are a cause of maturity-onset diabetes of the young type 7 (MODY7). Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Apr 2010]