

Product datasheet for **RG210042**

KLF2 (NM_016270) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | KLF2 (NM_016270) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | KLF2 |
| Synonyms: | LKLF |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG210042 representing NM_016270 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGAGTGAACCCATCCTGCCGTCTTCTCCACTTTCGCCAGCCCGTGCCGCGAGCGCGGCCTGC
AGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACCTCAACAGCGTGTGGACTT
CATCCTGTCCATGGGGCTGGATGGCTGGGCGCCGAGGCCGCCCGGAGCCGCGCCGCCGCCGCCCGCCG
CCTGCGTTCTATTACCCGAACCCGGCGCGCCCGCCCTACAGCGCCCGCGGGTGGCTGGTGTCTG
AGCTGCTGCGACCCGAGCTGGATGCGCCCGGGGCCCGCACTGCACGGCCGCTTCTGCTGGCGCCGCC
CGGCCGCTGGTCAAGGCCGAGCCCTGAAGCGGACGGCGGCGCGGCTACGGCTGCGCCCGGGCTG
ACCCGTGGACCGCGCGGCTCAAGCGGAGGGCGCCCGGGCCCGCGGGTTCGTGCATGCGAGGTCCCG
GGGGCCGCCCGCCGCGCCCGGACACACCGCCGCTCAGCCCGACGGCCCGCGCGCCTGCCCGCGCC
CGGTCCGCGCGCCTCTTCCCGCCGCTTTCGGTGGCCCTGGTTTCGGCGCGCCCGGGCCCGGCCTGCAT
TACGCGCCGCTGCGCCCGCAGCCTTCGGTCTCTTCGACGACGCGCGCCCGCGCGGCAGCCCTGGGCC
TGGCGCCCGCCGCGCGGTCTCTCACGCCGCTGCGTCCCGCTGGAGCTGCTGGAGGCCAAGCC
AAGCGCGCCCGCGCTCTTGGCCCCGAAACGCACCGCCACTCACACCTGCAGCTACCGGGCTGCGGC
AAGACCTACACCAAGAGTTCGCATCTGAAGCGCATCTGCGCACACAGGTGAGAAGCCCTACCACT
GCAACTGGGACGGCTGCGGCTGGAAGTTTGC GCGCTCAGACGAGCTCAGCGCCACTACCGAAAGCACAC
GGGCCACCGCCATTCCAGTGCCATCTGTGCGATCGTGCTTCTCGCGCTCCGATCACCTGGCGCTGCAC
ATGAAACGGCACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210042 representing NM_016270
 Red=Cloning site Green=Tags(s)

MALSEPILPSFSTFASPCRERGLQERWPRAEPESGGTDDDLNSVLDLILSMGLDGLGAEAAPEPPPPPPP
 PAFYYPEPGAPPYSAPAGGLVSELLRPELDAPPGPALHGRFLLAPPGRLVKAEPPEADGGGGYGAPGL
 TRGPRGLKREGAPGPAASCMRGPGRPPPPDTPPLSPDGPALPAPGPRASFPPFGGPGFGAPGGLH
 YAPPAPPAFGLFDDAAAAAALGLAPPAARGLLTPPASPLELLEAKPKGRRSWPRKRTATHTCSYAGCG
 KTYTKSSHLKAHLRTHTEKPYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALH
 MKRHM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016270

ORF Size: 1065 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_016270.2](#), [NP_057354.1](#)

RefSeq Size: 1655 bp

RefSeq ORF: 1068 bp

Locus ID: 10365

UniProt ID: [Q9Y5W3](#)

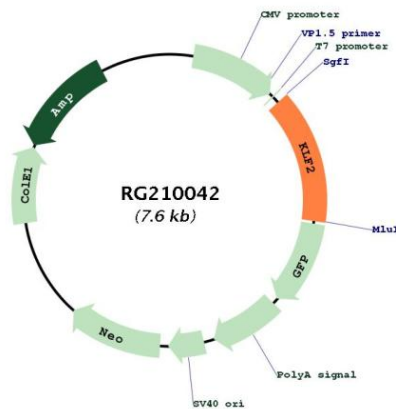
Cytogenetics: 19p13.11

Domains: zf-C2H2

Protein Families: Transcription Factors

Gene Summary: This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is expressed early in mammalian development and is found in many different cell types. The protein acts to bind the CACCC box found in the promoter of target genes to activate their transcription. It plays a role in many processes during development and disease including adipogenesis, embryonic erythropoiesis, epithelial integrity, inflammation and t-cell viability. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG210042