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Product datasheet for RC207523

KLF15 (NM_014079) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLF15 (NM_014079) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLF15
Synonyms:	KKLF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207523 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTGGACCACTTACTTCCAGTGGACGAGAACTTCTCGTCGCCAAAATGCCCAGTTGGGTATCTGGGTG ATAGGCTGGTTGGCCGGCGGGCATATCACATGCTGCCCTCACCCGTCTCTGAAGATGACAGCGATGCCTC CAGCCCCTGCTCCTGTTCCAGTCCCGACTCTCAAGCCCTCTGCTCCTGCTATGGTGGAGGCCTGGGCACC GAGAGCCAGGACAGCATCTTGGACTTCCTATTGTCCCAGGCCACGCTGGGCAGTGGCGGGGGCAGCGGCA GTAGCATTGGGGCCAGCAGTGGCCCCGTGGCCTGGGGGCCCTGGCGAAGGGCAGCGGCCCCTGTGAAGGG GGAGCATTTCTGCTTGCCCGAGTTTCCTTTGGGTGATCCTGATGACGTCCCACGGCCCTTCCAGCCTACC CTGGAGGAGATTGAAGAGTTTCTGGAGGAGAACATGGAGCCTGGAGTCAAGGAGGTCCCTGAGGGCAACA GCAAGGACTTGGATGCCTGCAGCCAGCTCTCAGCTGGGCCACACAAGAGCCACCTCCATCCTGGGTCCAG CGGGAGAGAGCGCTGTTCCCCTCCACCAGGTGGTGCCAGTGCAGGAGGTGCCCAGGGCCCAGGTGGGGGC CCCACGCCTGATGGCCCCATCCCAGTGTTGCTGCAGATCCAGCCCGTGCCTGTGAAGCAGGAATCGGGCA CAGGGCCTGCCTCCCCTGGGCAAGCCCCAGAGAATGTCAAGGTTGCCCAGCTCCTGGTCAACATCCAGGG GCAGACCTTCGCACTCGTGCCCCAGGTGGTACCCTCCTCCAACTTGAACCTGCCCTCCAAGTTTGTGCGC ATTGCCCCTGTGCCCATTGCCGCCAAGCCTGTTGGATCGGGACCCCTGGGGCCTGGCCCTGCCGGTCTCC TCATGGGCCAGAAGTTCCCCAAGAACCCAGCCGCAGAACTCATCAAAATGCACAAATGTACTTTCCCTGG CTGCAGCAAGATGTACACCAAAAGCAGCCACCTCAAGGCCCACCTGCGCCGGCACACGGGTGAGAAGCCC TTCGCCTGCACCTGGCCAGGCTGCGGCTGGAGGTTCTCGCGCTCTGACGAGCTGTCGCGGCACAGGCGCT CGCACTCAGGTGTGAAGCCGTACCAGTGTCCTGTGTGCGAGAAGAAGTTCGCGCGGAGCGACCACCTCTC CAAGCACATCAAGGTGCACCGCTTCCCGCGGAGCAGCCGCTCCGTGCGCTCCGTGAAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC207523 protein sequence
Red=Cloning site Green=Tags(s)

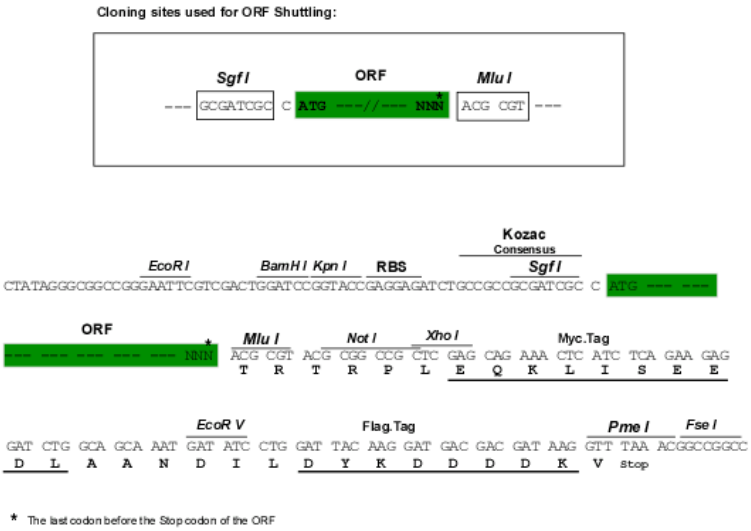
MVDHLLPVDENFSSPKCPVGYLGDRLVGRRAYHMLPSPVSEDDSDASSPCSCSSPDSQALCSCYGGGLGT
ESQDSILDFLLSQATLGSGGGSGSSIGASSGPVAWGPWRRAAAPVKGEHFCLPEFPLGDPDDVPRPFQPT
LEEIEEFLEENMEPGVKEVPEGNSKDLDACSQLSAGPHKSHLHPGSSGRERCSPPPGGASAGGAQGPGGG
PTPDGPIPVLLQIQPVPVKQESGTGPASPGQAPENVKVAQLLVNIQGQTFALVPQVVPSSNLNLPSKFVR
IAPVPIAAKPVGSGPLGPGPAGLLMGQKFPKNPAAELIKMHKCTFPGCSKMYTKSSHLKAHLRRHTGEKP
FACTWPGCGWRFSRSDELSRHRRSHSGVKPYQCPVCEKKFARSDHLSKHIKVHRFPRSSRSVRSVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6021_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014079

ORF Size: 1248 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_014079.4

RefSeq Size: 2539 bp

RefSeq ORF: 1251 bp

Locus ID: 28999

UniProt ID: Q9UIH9

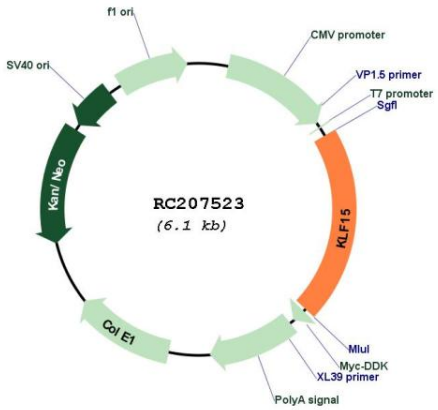
Cytogenetics: 3q21.3

Protein Families: Transcription Factors

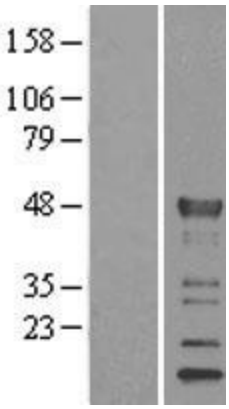
MW: 44 kDa

Gene Summary: Transcriptional regulator that binds to the GA element of the CLCNKA promoter. Binds to the KCNIP2 promoter and regulates KCNIP2 circadian expression in the heart (By similarity). Is a repressor of CCN2 expression, involved in the control of cardiac fibrosis. It is also involved in the control of cardiac hypertrophy acting through the inhibition of MEF2A and GATA4 (By similarity). Involved in podocyte differentiation (By similarity). Inhibits MYOCD activity. Is a negative regulator of TP53 acetylation. Inhibits NF-kappa-B activation through repression of EP300-dependent RELA acetylation.[UniProtKB/Swiss-Prot Function]

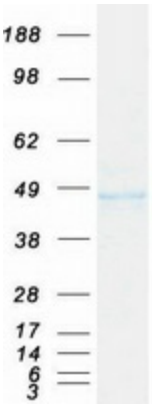
Product images:



Circular map for RC207523



Western blot validation of overexpression lysate (Cat# [LY402276]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207523 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KLF15 protein (Cat# [TP307523]). The protein was produced from HEK293T cells transfected with KLF15 cDNA clone (Cat# RC207523) using MegaTran 2.0 (Cat# [TT210002]).