

Product datasheet for **KN308828**

Klf15 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Klf15
Locus ID:	66277
Components:	<p>KN308828G1, Klf15 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACGAGAAGGTCTCGTCCAC</p> <p>KN308828G2, Klf15 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATGTGGTATGGCTGCCGGC</p> <p>KN308828D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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CAGCCCAGAC AGATGTGTGT CCCATCCCTT CCAGTCCTGG GGACACCATG CTCACATCCA CAGATGTTCA
TTTTTGAACA TCTAAAGTCA ACATCGAACA AGCAGCCTGT TTTTATTTGC TTAATCTGGA AACCTACAG
AAGCCCCAAT ACCTTGAGCT CAGAATGCAA ATGGCCTTTT CCTTTCTCAC CCCCTCTCTG ACTCAAGGTA
GGAAGCAGAG TCCAGGGGCT GGCAGCTTTC AGGGCCTCCC CTCTCTGGCT CCCTCTCTCC TCGTGGCCTC
AGCTGTTTCG GGACAAGAGC GTTCCTTGTC TTATTCTTTT CCAGGATCAT TCTGAAAAAT GTTTGAAACC
AGAAGTGCCC TGGATTGTGC AACGGGCCTG GAGAGGGAGG GCTCTTTTGC AAATAGGGTG ATGCAACTTT
TGAAAACATA CTCGCCGGCC CCATTCTCCC TTGGGATGGA AGCAGGATCT GGACATTTGG CCACAGGAGG
CCTTGGGCAG GCAGCCGAGG GTGAGGGCTG CAAGGCACTG GTAAGCAGTC CTTCTAACCT GGCCTCCCTT
GTTCCCTCTC TGCAGTCACC ACAGGCTCGG CCAGGCCAGC CCCCTGCTCT TGTGCCAGCC CTGACTCGCA
AGCCTTCTGT TCCTGCTACA GTGCGGGTCC AGGCCCTGAG GCCCAGGGCA GCATCTTGGA TTTCTCTCTG
TCCCGGGCCA CACTGGGCAG TGGTGGTGGC AGTGGAGGTA TTGGAGATAG CAGTGGCCCT GTGACCTGGG
GATCATGGAG GAGAGCCTCT GTGCCTGTGA AGGAGGAACA TTTCTGCTTC CCTGAATTTT TGTCAGGGGA
CACTGATGAC GTCTCCAGGC CCTTCCAGCC TACCCTGGAG GAGATTGAAG AATTCCTGGA AGAGAACATG
GAGGCTGAGG TCAAGGAGGC CCCAGAGAAC GGTAGCAGGG ACCTGGAGAC CTGTAGCCAG CTCTCAGCTG
GGTCACACCG GAGCCACCTT CATCCAGAGT CTGCTGGGAG AGAGCGCTGT ACCCCACCAC CAGGTGGCAC
GAGTGGGGGT GGTGCCAAA GTGCAGGTGA GGGGCCAGCA CATGATGGCC CCGTGCCGGT GCTACTGCAG
ATCCAGCCTG TTGCTGTGAA GCAGGAGGCA GGTACAGGGC CAGCCTCCCC AGGGCAGGCC CCAGAGAGCG
TCAAGGTCCG

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GE100003, scramble sequence in pCas-Guide vector



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Disclaimer:

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq:

[NM_023184](#), [NM_001355668](#)

UniProt ID:

[Q9EPW2](#)

Synonyms:

1810013I09Rik; AV048136; AW494632; CKLF; KCLF

Summary:

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

Product images:
