

Product datasheet for KN205651LP

OriGene Technologies, Inc.

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Angiopoietin like 4 (ANGPTL4) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: Angiopoietin like 4

Locus ID: 51129

Components: KN205651G1, Angiopoietin like 4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN205651G2, Angiopoietin like 4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN205651LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; Luciferase-Puro in green;

Right arm in violet

GGACTACAGG CGCGCACTAC CAAGCCCGGC TAATTTTTTT TTGTATTTTT AGTAGAGACT GGGTTTCACG ATGTTGGCCG GGCTGGTCTG GAAGTCTTGA CCTCAAGCGT GCGCCCTCTC CGCCACTGGG TAAGGCGGGG GCGGAATAGG GGGCTTGCAA TTTCACACTA GAGGCGGGCA CCGTGGGGGA AAGAAGAGTC ACGTCTCCCA CGGTTCGTAG AGGAAGGCCT GCCTGAGCCT GGAGCGGGGG CGGGAGAGCC ACAGTTTGGC ATCCCCAGGG CATCCCCCAG CCCGCAGACT ACCAGGCCTC CAGAGGACAG GACCCCACCC CCGGCCACAG GCCCTGCCCC CAGCACTCCC CGCACCCCGC CTCCAAGACT CCTCCGCCCA CTCCGCACCC AACTTATAAA AACCGTCCTC GGGCGCGGCG GGGAGAAGCC GAGCTGAGCG GATCCTCACA CGACTGTGAT CCGATTCTTT CCAGCGGCTT CTGCAACCAA GCGGGTCTTA CCCCCGGTCC TCCGCGTCTC CAGTCCTCGC ACCTGGAACC CCAACGTCCC CGAGAGTCCC CGAATCCCCG CTCCCAGGCT ACCTAAGAGG CCTGCAGCTC GGCCAGGGGC TGCGCGAACA CGCGGAGCGC ACCCGCAGTC AGCTGAGCGC GCTGGAGCGG CGCCTGAGCG CGTGCGGGTC CGCCTGTCAG GGAACCGAGG GGTCCACCGA CCTCCCGTTA GCCCCTGAGA GCCGGGTGGA CCCTGAGGTC CTTCACAGCC TGCAGGTACG TGTCCCCAGG GCTGGTTCTC CGCGCCCCTA GTGGCTCTCC TGGCTTGGAA GGGTATGGAC AGGAGTGGGG CGTGGGGGCG GGGTGCGCAA CTGTGGCTCC CTGGGCTTCC CTGCGTCAAG GGATGGGCTC CCCCCTTAGG AAGCCGAGGA GGGAGGTTCG CTCAAGGCCA GGAATTCAAG ACCACCTAAA GCAAAATAGC AAAATTAAAA AACGACCGGG CGCAGTGGCT CACGGAGCCT CCACCTGCTG TCGAGACTAG CCTGGCCAAC ATGGAGAAAC CTCGTCTCTA CTAAAAATAC AAAAAATTAG CCTGGCATGG TGTGCATGCC TGTAATCCCA

GCTACTTGGG

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: <u>NM 001039667, NM 016109, NM 139314, NR 104213</u>

UniProt ID: Q9BY76

Synonyms: ANGPTL2; ARP4; FIAF; HARP; HFARP; NL2; PGAR; pp1158; TGQTL; UNQ171

Summary: This gene encodes a glycosylated, secreted protein containing a C-terminal fibrinogen

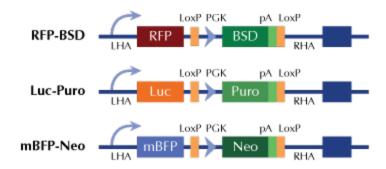
domain. The encoded protein is induced by peroxisome proliferation activators and functions as a serum hormone that regulates glucose homeostasis, lipid metabolism, and insulin sensitivity. This protein can also act as an apoptosis survival factor for vascular endothelial cells and can prevent metastasis by inhibiting vascular growth and tumor cell invasion. The Cterminal domain may be proteolytically-cleaved from the full-length secreted protein.

Decreased expression of this gene has been associated with type 2 diabetes. Alternative splicing results in multiple transcript variants. This gene was previously referred to as

ANGPTL2 but has been renamed ANGPTL4. [provided by RefSeq, Sep 2013]

Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter