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Product datasheet for TG315369

DLK (DLK1) Human shRNA Plasmid Kit (Locus ID 8788)

Product data:

Product Type:	shRNA Plasmids
Product Name:	DLK (DLK1) Human shRNA Plasmid Kit (Locus ID 8788)
Locus ID:	8788
Synonyms:	delta-like 1 homolog; delta-like 1 homolog (Drosophila); delta-like homolog; DLK; FA1; FA1, ZOG, pG2, PREF1, Pref-1; pG2; Pref-1; PREF1; secredeltin; ZOG
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	DLK1 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 8788). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	NM_001032997, NM_001317172, NM_003836, NM_003836.1, NM_003836.2, NM_003836.3, NM_003836.4, NM_003836.5, NM_003836.6, NM_001032997.1, BC007741, BC007741.2, BC013197, BC014015
UniProt ID:	P80370
Summary:	This gene encodes a transmembrane protein that contains multiple epidermal growth factor repeats that functions as a regulator of cell growth. The encoded protein is involved in the differentiation of several cell types including adipocytes. This gene is located in a region of chromosome 14 frequently showing unparental disomy, and is imprinted and expressed from the paternal allele. A single nucleotide variant in this gene is associated with child and adolescent obesity and shows polar overdominance, where heterozygotes carrying an active paternal allele express the phenotype, while mutant homozygotes are normal. [provided by RefSeq, Nov 2015]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).