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Product datasheet for TL306763

Aldolase (ALDOA) Human shRNA Plasmid Kit (Locus ID 226)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Aldolase (ALDOA) Human shRNA Plasmid Kit (Locus ID 226)
Locus ID:	226
Synonyms:	ALDA; GSD12; HEL-S-87p
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ALDOA - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 226). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC010568, NM_000034, NM_001127617, NM_001243177, NM_184041, NM_184043, NM_001355562, NM_001355563, NM_001355564, NM_001355565, NM_000034.1, NM_000034.2, NM_000034.3, NM_184041.1, NM_184041.2, NM_184043.1, NM_184043.2, NM_001127617.1, NM_001127617.2, NM_001243177.1, BC004333, BC004333.1, BC010660, BC013614, BC000367, BC012880, BC015888, BC016170, BC016800, NM_001243175, NM_001243177.4, NM_184041.5
UniProt ID:	P04075
Summary:	This gene encodes a member of the class I fructose-bisphosphate aldolase protein family. The encoded protein is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Three aldolase isozymes (A, B, and C), encoded by three different genes, are differentially expressed during development. Mutations in this gene have been associated with Glycogen Storage Disease XII, an autosomal recessive disorder associated with hemolytic anemia. Disruption of this gene also plays a role in the progression of multiple types of cancers. Related pseudogenes have been identified on chromosomes 3 and 10. [provided by RefSeq, Sep 2017]

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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.

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).