Product datasheet for TL311770

LDB3 Human shRNA Plasmid Kit (Locus ID 11155)

Product data:

Product Type:	shRNA Plasmids
Product Name:	LDB3 Human shRNA Plasmid Kit (Locus ID 11155)
Locus ID:	11155
Synonyms:	CMD1C; CMH24; CMPD3; CYPHER; LDB3Z1; LDB3Z4; LVNC3; MFM4; ORACLE; PDLIM6; ZASP
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	LDB3 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 11155). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001080114, NM_001080115, NM_001080116, NM_001171610, NM_001171611, NM_007078, NM_001080114.1, NM_007078.1, NM_007078.2, NM_001080115.1, NM_001080116.1, NM_001171611.1, BC010929, BC023609, BC111457, NM_001368064, NM_001368065, NM_001368067, NM_001368063, NM_001368066, NM_001368068, NM_007078.3, NM_001171611.2, NM_001171610.2, NM_001080115.2, NM_001080114.2
UniProt ID:	O75112
Summary:	This gene encodes a PDZ domain-containing protein. PDZ motifs are modular protein-protein interaction domains consisting of 80-120 amino acid residues. PDZ domain-containing proteins interact with each other in cytoskeletal assembly or with other proteins involved in targeting and clustering of membrane proteins. The protein encoded by this gene interacts with alpha-actinin-2 through its N-terminal PDZ domain and with protein kinase C via its C-terminal LIM domains. The LIM domain is a cysteine-rich motif defined by 50-60 amino acids containing two zinc-binding modules. This protein also interacts with all three members of the myozenin family. Mutations in this gene have been associated with myofibrillar myopathy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been identified; all isoforms have N-terminal PDZ domains while only longer isoforms (1, 2 and 5) have C-terminal LIM domains. [provided by RefSeq, Jan 2010]

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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).