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Product datasheet for TL310491

PEX5 Human shRNA Plasmid Kit (Locus ID 5830)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PEX5 Human shRNA Plasmid Kit (Locus ID 5830)
Locus ID:	5830
Synonyms:	PBD2A; PBD2B; PTS1-BP; PTS1R; PXR1; RCDP5
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PEX5 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5830). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_000319, NM_001131023, NM_001131024, NM_001131025, NM_001131026, NM_001300789, NM_001351124, NM_001351126, NM_001351127, NM_001351128, NM_001351130, NM_001351131, NM_001351132, NM_001351133, NM_001351134, NM_001351135, NM_001351136, NM_001351137, NM_001351138, NM_001351139, NM_001351140, NM_000319.1, NM_000319.2, NM_000319.3, NM_000319.4, NM_001131024.1, NM_001131025.1, NM_001131026.1, NM_001131023.1, NM_001300789.1, BC010621, BC010621.2, NM_001131024.2, NM_001131025.2, NM_001131026.2, NM_001131023.2, NM_000319.5
UniProt ID:	P50542

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Summary:

The product of this gene binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import. Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause of neonatal adrenoleukodystrophy (NALD), a cause of Zellweger syndrome (ZWS) as well as may be a cause of infantile Refsum disease (IRD). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]

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).