

Product datasheet for TR302195

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LAR (PTPRF) Human shRNA Plasmid Kit (Locus ID 5792)

Product data:

Product Type: shRNA Plasmids

Product Name: LAR (PTPRF) Human shRNA Plasmid Kit (Locus ID 5792)

Locus ID: 5792

Synonyms: BNAH2; LAR

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: PTPRF - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

5792). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 002840, NM 130440, NM 001329137, NM 001329138, NM 001329139, NM 001329140,

NM 130440.1, NM 130440.2, NM 130440.3, NM 002840.1, NM 002840.2, NM 002840.3, NM 002840.4, BC048768, BC048768.1, BC012102, BC029466, BC048416, NM 002840.5

UniProt ID: P10586

Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP)

family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem

intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The

extracellular region contains three Ig-like domains, and nine non-Ig like domains similar to that of neural-cell adhesion molecule. This PTP was shown to function in the regulation of epithelial cell-cell contacts at adherents junctions, as well as in the control of beta-catenin signaling. An increased expression level of this protein was found in the insulin-responsive tissue of obese, insulin-resistant individuals, and may contribute to the pathogenesis of insulin resistance. Two alternatively spliced transcript variants of this gene, which encode

distinct proteins, have been reported. [provided by RefSeq, Jul 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).