

Product datasheet for **TG303577**

Leucyl tRNA synthetase (LARS) Human shRNA Plasmid Kit (Locus ID 51520)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Leucyl tRNA synthetase (LARS) Human shRNA Plasmid Kit (Locus ID 51520)
Locus ID:	51520
Synonyms:	hr025CI; HSPC192; ILFS1; LARS; LEURS; LEUS; LFIS; LRS; PIG44; RNTLS
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	LARS - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 51520). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	NM_001317964 , NM_001317965 , NM_016460 , NM_020117 , NM_020117.1 , NM_020117.10 , NM_020117.2 , NM_020117.3 , NM_020117.4 , NM_020117.5 , NM_020117.6 , NM_020117.7 , NM_020117.8 , NM_020117.9 , NM_016460.1 , BC068041 , BC105581 , BC110084 , BC131798 , BC150213 , BC151214 , BC152422
UniProt ID:	Q9P2J5
Summary:	This gene encodes a cytosolic leucine-tRNA synthetase, a member of the class I aminoacyl-tRNA synthetase family. The encoded enzyme catalyzes the ATP-dependent ligation of L-leucine to tRNA(Leu). It is found in the cytoplasm as part of a multisynthetase complex and interacts with the arginine tRNA synthetase through its C-terminal domain. A mutation in this gene was found in affected individuals with infantile liver failure syndrome 1. Alternatively spliced transcript variants of this gene have been observed. [provided by RefSeq, Dec 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).