

## Product datasheet for **TR309877**

### REG1 beta (REG1B) Human shRNA Plasmid Kit (Locus ID 5968)

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | shRNA Plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product Name:             | REG1 beta (REG1B) Human shRNA Plasmid Kit (Locus ID 5968)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Locus ID:                 | 5968                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Synonyms:                 | PSPS2; REGH; REGI-BETA; REGL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Vector:                   | pRS (TR20003)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| E. coli Selection:        | Ampicillin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mammalian Cell Selection: | Puromycin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Format:                   | Retroviral plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Components:               | REG1B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5968). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RefSeq:                   | <a href="#">NM_006507</a> , <a href="#">NM_006507.2</a> , <a href="#">NM_006507.3</a> , <a href="#">BC027895</a> , <a href="#">BM310513</a> , <a href="#">NM_006507.4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt ID:               | <a href="#">P48304</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Summary:                  | This gene is a type I subclass member of the Reg gene family. The Reg gene family is a multigene family grouped into four subclasses, types I, II, III and IV based on the primary structures of the encoded proteins. This gene encodes a protein secreted by the exocrine pancreas that is highly similar to the REG1A protein. The related REG1A protein is associated with islet cell regeneration and diabetogenesis, and may be involved in pancreatic lithogenesis. Reg family members REG1A, REGL, PAP and this gene are tandemly clustered on chromosome 2p12 and may have arisen from the same ancestral gene by gene duplication. [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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .                                                                                                                                                                                                                                                                                                                          |


[View online »](#)

**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](mailto: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).