

Product datasheet for **TR505950**

Atp6v1b1 Mouse shRNA Plasmid (Locus ID 110935)

Product data:

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| Product Type: | shRNA Plasmids |
| Product Name: | Atp6v1b1 Mouse shRNA Plasmid (Locus ID 110935) |
| Locus ID: | 110935 |
| Synonyms: | Atp6b1; AW208839; D630003L15; D630030L16Rik; D630039P21Rik; Vpp-3; Vpp3 |
| Vector: | pRS (TR20003) |
| E. coli Selection: | Ampicillin |
| Mammalian Cell Selection: | Puromycin |
| Format: | Retroviral plasmids |
| Components: | Atp6v1b1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 110935). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free. |
| RefSeq: | BC017127 , BC062202 , NM_134157 , NM_134157.1 , NM_134157.2 , BC004789 , BC013168 , BC058584 , BC080796 |
| UniProt ID: | Q91YH6 |
| Summary: | Non-catalytic subunit of the V1 complex of vacuolar(H ⁺)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:16174750, PubMed:23028982). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). Essential for the proper assembly and activity of V-ATPase (By similarity). In renal intercalated cells, mediates secretion of protons (H ⁺) into the urine thereby ensuring correct urinary acidification (PubMed:16174750). Required for optimal olfactory function by mediating the acidification of the nasal olfactory epithelium (PubMed:23028982).[UniProtKB/Swiss-Prot Function] |
| 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).