

## Product datasheet for **TL509856**

### Slc4a10 Mouse shRNA Plasmid (Locus ID 94229)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Slc4a10 Mouse shRNA Plasmid (Locus ID 94229)
Locus ID:	94229
Synonyms:	mKIAA4136; NCBE
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Slc4a10 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 94229). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">BC039226</a> , <a href="#">NM_001242378</a> , <a href="#">NM_001242379</a> , <a href="#">NM_001242380</a> , <a href="#">NM_001242381</a> , <a href="#">NM_001242382</a> , <a href="#">NM_001242383</a> , <a href="#">NM_033552</a> , <a href="#">NM_033552.1</a> , <a href="#">NM_033552.2</a> , <a href="#">NM_033552.3</a> , <a href="#">NM_001242381.1</a> , <a href="#">NM_001242383.1</a> , <a href="#">NM_001242379.1</a> , <a href="#">NM_001242380.1</a> , <a href="#">NM_001242382.1</a> , <a href="#">NM_001242378.1</a> , <a href="#">NM_001362671</a> , <a href="#">NM_001362672</a> , <a href="#">NM_001362673</a> , <a href="#">NM_001362674</a> , <a href="#">NM_001362675</a> , <a href="#">NM_001362676</a>
UniProt ID:	<a href="#">Q5DTL9</a>
Summary:	Sodium/bicarbonate cotransporter which plays an important role in regulating intracellular pH (PubMed:10993873, PubMed:20566632). Has been shown to act as a sodium/bicarbonate cotransporter in exchange for intracellular chloride (PubMed:10993873, PubMed:20566632). Has also been shown to act as a sodium/bicarbonate cotransporter which is not responsible for net efflux of chloride, with the observed chloride efflux being due to chloride self-exchange (By similarity). Controls neuronal pH and may contribute to the secretion of cerebrospinal fluid (PubMed:18165320). Reduces the excitability of CA1 pyramidal neurons and modulates short-term synaptic plasticity (PubMed:26136660). Required in retinal cells to maintain normal pH which is necessary for normal vision (PubMed:23056253). In the kidney, likely to mediate bicarbonate reclamation in the apical membrane of the proximal tubules (By similarity).[UniProtKB/Swiss-Prot Function]



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**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](mailto: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](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).