

## Product datasheet for **TL301623**

### SLC26A5 Human shRNA Plasmid Kit (Locus ID 375611)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	SLC26A5 Human shRNA Plasmid Kit (Locus ID 375611)
Locus ID:	375611
Synonyms:	DFNB61; PRES
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SLC26A5 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 375611). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001167962</a> , <a href="#">NM_001321787</a> , <a href="#">NM_198999</a> , <a href="#">NM_206883</a> , <a href="#">NM_206884</a> , <a href="#">NM_206885</a> , <a href="#">NR_120441</a> , <a href="#">NR_120442</a> , <a href="#">NR_120443</a> , <a href="#">NR_135801</a> , <a href="#">NR_135802</a> , <a href="#">NM_206883.1</a> , <a href="#">NM_206883.2</a> , <a href="#">NM_206884.1</a> , <a href="#">NM_206884.2</a> , <a href="#">NM_198999.1</a> , <a href="#">NM_198999.2</a> , <a href="#">NM_206885.1</a> , <a href="#">NM_206885.2</a> , <a href="#">BC100832</a> , <a href="#">BC100833</a> , <a href="#">BC100834</a> , <a href="#">BC100835</a> , <a href="#">NM_206883.3</a> , <a href="#">NM_198999.3</a> , <a href="#">NM_206884.3</a> , <a href="#">NM_206885.3</a>
UniProt ID:	<a href="#">P58743</a>
Summary:	This gene encodes a member of the SLC26A/SulP transporter family. The protein functions as a molecular motor in motile outer hair cells (OHCs) of the cochlea, inducing changes in cell length that act to amplify sound levels. The transmembrane protein is an incomplete anion transporter, and does not allow anions to cross the cell membrane but instead undergoes a conformational change in response to changes in intracellular Cl <sup>-</sup> levels that results in a change in cell length. The protein functions at microsecond rates, which is several orders of magnitude faster than conventional molecular motor proteins. Mutations in this gene are potential candidates for causing neurosensory deafness. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2009]
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> .



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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](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).