

## Product datasheet for **TR301640**

### SLC25A14 Human shRNA Plasmid Kit (Locus ID 9016)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	SLC25A14 Human shRNA Plasmid Kit (Locus ID 9016)
Locus ID:	9016
Synonyms:	BMCP1; UCP5
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SLC25A14 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 9016). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001282195</a> , <a href="#">NM_001282196</a> , <a href="#">NM_001282197</a> , <a href="#">NM_001282198</a> , <a href="#">NM_003951</a> , <a href="#">NM_022810</a> , <a href="#">NR_104107</a> , <a href="#">NM_003951.1</a> , <a href="#">NM_003951.2</a> , <a href="#">NM_001282198.1</a> , <a href="#">NM_001282196.1</a> , <a href="#">NM_001282195.1</a> , <a href="#">NM_001282197.1</a> , <a href="#">NM_022810.1</a> , <a href="#">BC119666</a> , <a href="#">BC119667</a> , <a href="#">NM_001282196.2</a> , <a href="#">NM_001282195.2</a>
UniProt ID:	<a href="#">O95258</a>
Summary:	Mitochondrial uncoupling proteins (UCP) are members of the larger family of mitochondrial anion carrier proteins (MACP). Uncoupling proteins separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. Uncoupling proteins facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. This gene is widely expressed in many tissues with the greatest abundance in brain and testis. Alternative splicing results in multiple transcript variants. A pseudogene of this gene has been defined on chromosome 4. [provided by RefSeq, Aug 2013]
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).