

Product datasheet for **TR305577**

CCDC51 Human shRNA Plasmid Kit (Locus ID 79714)

Product data:

Product Type:	shRNA Plasmids
Product Name:	CCDC51 Human shRNA Plasmid Kit (Locus ID 79714)
Locus ID:	79714
Synonyms:	MITOK
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CCDC51 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 79714). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC004341 , NM_001256964 , NM_001256965 , NM_001256966 , NM_001256967 , NM_001256968 , NM_001256969 , NM_024661 , NM_024661.1 , NM_024661.2 , NM_024661.3 , NM_024661.4 , NM_001256965.1 , NM_001256965.2 , NM_001256966.1 , NM_001256966.2 , NM_001256967.1 , NM_001256967.2 , NM_001256968.1 , NM_001256968.2 , NM_001256969.1 , NM_001256969.2 , NM_001256964.1 , BC011993 , BM810621 , NM_001256966.3 , NM_001256967.3 , NM_001256965.3 , NM_001256968.3 , NM_001256969.3
UniProt ID:	Q96ER9
Summary:	Mitochondrial potassium channel located in the mitochondrial inner membrane (PubMed:31435016). Together with ABCB8/MITOSUR, forms a protein complex localized in the mitochondria that mediates ATP-dependent potassium currents across the inner membrane (that is, mitoK(ATP) channel) (PubMed:31435016). May contribute to the homeostatic control of cellular metabolism under stress conditions by regulating the mitochondrial matrix volume (PubMed:31435016).[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).