

Product datasheet for **TL503453**

Trpv6 Mouse shRNA Plasmid (Locus ID 64177)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Trpv6 Mouse shRNA Plasmid (Locus ID 64177)
Locus ID:	64177
Synonyms:	Cac; CAT; CaT1; Ecac2; Otrpc3
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Trpv6 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 64177). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC016101 , NM_022413 , NM_022413.1 , NM_022413.2 , NM_022413.3 , NM_022413.4
UniProt ID:	Q91WD2
Summary:	Calcium selective cation channel that mediates Ca(2+) uptake in various tissues, including the intestine (PubMed:12765696, PubMed:12601087, PubMed:12574114, PubMed:14736889, PubMed:15123711, PubMed:17129178). Important for normal Ca(2+) ion homeostasis in the body, including bone and skin (PubMed:17129178, PubMed:22878123). The channel is activated by low internal calcium level, probably including intracellular calcium store depletion, and the current exhibits an inward rectification. Inactivation includes both a rapid Ca(2+)-dependent and a slower Ca(2+)-calmodulin-dependent mechanism; the latter may be regulated by phosphorylation (PubMed:15123711). In vitro, is slowly inhibited by Mg(2+) in a voltage-independent manner (PubMed:12601087). Heteromeric assembly with TRPV5 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating (PubMed:12574114).[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).