

Product datasheet for TF300814

OriGene Technologies, Inc.

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TRPC4 Human shRNA Plasmid Kit (Locus ID 7223)

Product data:

Product Type: shRNA Plasmids

Product Name: TRPC4 Human shRNA Plasmid Kit (Locus ID 7223)

Locus ID: 7223

Synonyms: HTRP-4; HTRP4; TRP4

Vector: pRFP-C-RS (TR30014)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

Components: TRPC4 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 7223).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.

RefSeq: NM 001135955, NM 001135956, NM 001135957, NM 001135958, NM 003306, NM 016179,

NM 001354799, NM 001354806, NM 016179.1, NM 016179.2, NM 003306.1,

NM 001135955.1, NM 001135956.1, NM 001135957.1, NM 001135958.1, BC104725, BC105306, BC105641, BC105917, NM 001135956.3, NM 016179.4, NM 001135958.3,

NM 001135957.3, NM 001135955.3, NM 003306.3

UniProt ID: Q9UBN4

Summary: This gene encodes a member of the canonical subfamily of transient receptor potential cation

channels. The encoded protein forms a non-selective calcium-permeable cation channel that

is activated by Gq-coupled receptors and tyrosine kinases, and plays a role in multiple

processes including endothelial permeability, vasodilation, neurotransmitter release and cell

proliferation. Single nucleotide polymorphisms in this gene may be associated with

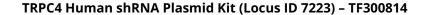
generalized epilepsy with photosensitivity. Alternatively spliced transcript variants encoding

multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.







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).