

## Product datasheet for **TF320704**

### TRPM7 Human shRNA Plasmid Kit (Locus ID 54822)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	TRPM7 Human shRNA Plasmid Kit (Locus ID 54822)
Locus ID:	54822
Synonyms:	ALSPDC; CHAK; CHAK1; LTrpC-7; LTRPC7; TRP-PLIK
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	TRPM7 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 54822). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001301212</a> , <a href="#">NM_017672</a> , <a href="#">NR_149152</a> , <a href="#">NR_149153</a> , <a href="#">NR_149154</a> , <a href="#">NM_017672.1</a> , <a href="#">NM_017672.2</a> , <a href="#">NM_017672.3</a> , <a href="#">NM_017672.4</a> , <a href="#">NM_017672.5</a> , <a href="#">NM_001301212.1</a> , <a href="#">BC028843</a> , <a href="#">BC051024</a> , <a href="#">BC128987</a> , <a href="#">BC128988</a> , <a href="#">BC169233</a> , <a href="#">BC169234</a> , <a href="#">BC169235</a> , <a href="#">NM_001301212.2</a> , <a href="#">NM_017672.6</a>
UniProt ID:	<a href="#">Q96QT4</a>
Summary:	This gene belongs to the melastatin subfamily of transient receptor potential family of ion channels. The protein encoded by this gene is both an ion channel and a serine/threonine protein kinase. The kinase activity is essential for the ion channel function, which serves to increase intracellular calcium levels and to help regulate magnesium ion homeostasis. The encoded protein is involved in cytoskeletal organization, cell adhesion, cell migration and organogenesis. Defects in this gene are a cause of amyotrophic lateral sclerosis-parkinsonism/dementia complex of Guam. The gene may also be associated with defects of cardiac function. [provided by RefSeq, Aug 2017]
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).