

## Product datasheet for **TR308682**

### TPM1 Human shRNA Plasmid Kit (Locus ID 7168)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	TPM1 Human shRNA Plasmid Kit (Locus ID 7168)
Locus ID:	7168
Synonyms:	C15orf13; CMD1Y; CMH3; HEL-S-265; HTM-alpha; LVNC9; TMSA
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	TPM1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 7168). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_000366</a> , <a href="#">NM_001018004</a> , <a href="#">NM_001018005</a> , <a href="#">NM_001018006</a> , <a href="#">NM_001018007</a> , <a href="#">NM_001018008</a> , <a href="#">NM_001018020</a> , <a href="#">NM_001301244</a> , <a href="#">NM_001301289</a> , <a href="#">NM_001330344</a> , <a href="#">NM_001330346</a> , <a href="#">NM_001330351</a> , <a href="#">NM_000366.1</a> , <a href="#">NM_000366.2</a> , <a href="#">NM_000366.3</a> , <a href="#">NM_000366.4</a> , <a href="#">NM_000366.5</a> , <a href="#">NM_001018008.1</a> , <a href="#">NM_001018005.1</a> , <a href="#">NM_001018020.1</a> , <a href="#">NM_001018004.1</a> , <a href="#">NM_001018006.1</a> , <a href="#">NM_001018007.1</a> , <a href="#">NM_001301289.1</a> , <a href="#">NM_001301244.1</a> , <a href="#">BC007433</a> , <a href="#">BC007433.2</a> , <a href="#">BC053545</a> , <a href="#">BC053545.1</a> , <a href="#">BC050473</a> , <a href="#">NM_001365777</a> , <a href="#">NM_001365778</a> , <a href="#">NM_001365779</a> , <a href="#">NM_001365782</a> , <a href="#">NM_001365776</a> , <a href="#">NM_001365780</a> , <a href="#">NM_001365781</a> , <a href="#">NM_001018020.2</a> , <a href="#">NM_001018004.2</a> , <a href="#">NM_001018007.2</a> , <a href="#">NM_001301244.2</a> , <a href="#">NM_001018006.2</a> , <a href="#">NM_001301289.2</a> , <a href="#">NM_001018005.2</a>
UniProt ID:	<a href="#">P09493</a>



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<b>Summary:</b>	<p>This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]</p>
<b>shRNA Design:</b>	<p>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>.</p>
<b>Performance Guaranteed:</b>	<p>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.</p> <p>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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a>. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).</p>