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Product datasheet for TG501557

Sigmar1 Mouse shRNA Plasmid (Locus ID 18391)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Sigmar1 Mouse shRNA Plasmid (Locus ID 18391)
Locus ID:	18391
Synonyms:	mSig; O; Oprs1; Si; Sig1R; sigma1R
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Sigmar1 - Mouse, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 18391). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	BC002000, BC019930, NM_001286538, NM_001286539, NM_001286540, NM_001286541, NM_001286542, NM_001286551, NM_001286605, NM_011014, NM_011014.1, NM_011014.2, NM_011014.3, NM_001286551.1, NM_001286605.1, NM_001286542.1, NM_001286541.1, NM_001286540.1, NM_001286539.1, NM_001286538.1, BM507398
UniProt ID:	O55242
Summary:	This gene encodes a transmembrane protein located in the endoplasmic reticulum. The encoded protein is a receptor that binds several endogenous ligands, including N,N-dimethyltryptamine, progesterone and pregnenolone and a variety of of non-opiate compounds. The encoded protein plays a role in regulating the activity of ion channels, acting as a chaperone and protecting cells from oxidative stress. In humans, this receptor has been associated with Alzheimer's and Parkinson's diseases, stroke and numerous disease conditions such as depression, pain and addiction. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Nov 2013]
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).