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Product datasheet for TR320662

MAST1 Human shRNA Plasmid Kit (Locus ID 22983)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MAST1 Human shRNA Plasmid Kit (Locus ID 22983)
Locus ID:	22983
Synonyms:	MCCCHCM; SAST
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MAST1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 22983). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_014975, NM_014975.1, NM_014975.2, BC017485, BC026709, BC027985, BM681304
UniProt ID:	Q9Y2H9
Summary:	This gene is a member of the microtubule-associated serine/threonine kinase (MAST) family. The protein encoded by this gene has an N-terminal serine/threonine kinase domain followed by a postsynaptic density protein-95/discs large/zona occludens-1 (PDZ) domain. In mouse and rat, the orthologous protein associates with the cytoskeleton and can bind both beta-2-syntrophin and neuronal nitric oxide synthase (nNOS) through its PDZ domain. In mouse and rat, this protein also co-localizes with dystrophin- and utrophin-associated protein complexes (DAPC/UAPC) in the vascular endothelium of the central nervous system. [provided by RefSeq, May 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 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).