

Product datasheet for **TR303129**

MSH5 Human shRNA Plasmid Kit (Locus ID 4439)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MSH5 Human shRNA Plasmid Kit (Locus ID 4439)
Locus ID:	4439
Synonyms:	G7; MUTSH5; NG23; POF13
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MSH5 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 4439). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_002441 , NM_025259 , NM_172165 , NM_172166 , NM_002441.1 , NM_002441.2 , NM_002441.3 , NM_002441.4 , NM_172166.1 , NM_172166.2 , NM_172166.3 , NM_025259.2 , NM_025259.3 , NM_025259.4 , NM_025259.5 , NM_172165.1 , NM_172165.2 , NM_172165.3 , BC001358 , BC001358.2 , BC002498 , BC041031
UniProt ID:	O43196
Summary:	This gene encodes a member of the mutS family of proteins that are involved in DNA mismatch repair and meiotic recombination. This protein is similar to a <i>Saccharomyces cerevisiae</i> protein that participates in segregation fidelity and crossing-over events during meiosis. This protein plays a role in promoting ionizing radiation-induced apoptosis. This protein forms hetero-oligomers with another member of this family, mutS homolog 4. Polymorphisms in this gene have been linked to various human diseases, including IgA deficiency, common variable immunodeficiency, and premature ovarian failure. Alternative splicing results multiple transcript variants. Read-through transcription also exists between this gene and the downstream chromosome 6 open reading frame 26 (C6orf26) gene. [provided by RefSeq, Feb 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 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).