

## Product datasheet for **TR303101**

### MUC4 Human shRNA Plasmid Kit (Locus ID 4585)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	MUC4 Human shRNA Plasmid Kit (Locus ID 4585)
Locus ID:	4585
Synonyms:	ASGP; HSA276359; MUC-4
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MUC4 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 4585). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001322468</a> , <a href="#">NM_004532</a> , <a href="#">NM_018406</a> , <a href="#">NM_138297</a> , <a href="#">NM_138298</a> , <a href="#">NM_138299</a> , <a href="#">NM_004532.1</a> , <a href="#">NM_004532.2</a> , <a href="#">NM_004532.3</a> , <a href="#">NM_004532.4</a> , <a href="#">NM_004532.5</a> , <a href="#">NM_138297.1</a> , <a href="#">NM_138297.2</a> , <a href="#">NM_138297.3</a> , <a href="#">NM_138297.4</a> , <a href="#">NM_018406.6</a> , <a href="#">NM_018406.5</a> , <a href="#">NM_018406.2</a> , <a href="#">BC131770</a> , <a href="#">NM_138297.5</a>
UniProt ID:	<a href="#">Q99102</a>
Summary:	The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface, although secreted isoforms may exist. At least two dozen transcript variants of this gene have been found, although for many of them the full-length transcript has not been determined or they are found only in tumor tissues. This gene contains a region in the coding sequence which has a variable number (>100) of 48 nt tandem repeats. [provided by RefSeq, Jul 2008]
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).