

Product datasheet for **TR511665**

Fut1 Mouse shRNA Plasmid (Locus ID 14343)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Fut1 Mouse shRNA Plasmid (Locus ID 14343)
Locus ID:	14343
Synonyms:	MFUT-1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Fut1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 14343). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC109145 , BC109146 , NM_001271981 , NM_008051 , NM_008051.1 , NM_008051.2 , NM_008051.3 , NM_008051.4 , NM_008051.5 , NM_008051.6 , NM_001271981.1
UniProt ID:	O09160
Summary:	This gene is one of three genes in mouse which encode a galactoside 2-L-fucosyltransferase. These genes differ in their developmental- and tissue-specific expression. The encoded type II membrane protein is anchored in the Golgi apparatus and controls the final step in the creation of alpha (1,2) fucosylated carbohydrates by the addition of a terminal fucose in an alpha (1,2) linkage. This enzyme is required for the synthesis of the Lewis antigen as well as the H-antigen, a precursor of the A and B antigens of the ABH histo-blood group. The biological function of the fucosylated carbohydrate products is thought to involve cell-adhesion and interactions with microorganisms. Disruption of this gene impairs development of the olfactory nerve and maturation of the glomerular layer of the main olfactory bulb. Alternative splicing results in multiple transcript variants which encode distinct isoforms. [provided by RefSeq, Dec 2012]
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).