

Product datasheet for TL700901

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Morf4l2 Rat shRNA Plasmid (Locus ID 317413)

Product data:

Product Type: shRNA Plasmids

Product Name: Morf4l2 Rat shRNA Plasmid (Locus ID 317413)

Locus ID: 317413

Synonyms: LRRG00119

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: Morf4l2 - Rat, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 317413).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: <u>NM 001007714, NM 001007714.1, BC083606</u>

UniProt ID: Q6Q189

Summary: Component of the NuA4 histone acetyltransferase complex which is involved in

transcriptional activation of select genes principally by acetylation of nucleosomal histone H4

and H2A. This modification may both alter nucleosome - DNA interactions and promote

interaction of the modified histones with other proteins which positively regulate

transcription. This complex may be required for the activation of transcriptional programs

associated with oncogene and proto-oncogene mediated growth induction, tumor

suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when directly recruited to sites of DNA damage. Also component of the MSIN3A complex which acts to repress transcription by deacetylation of nucleosomal histones (By

similarity).[UniProtKB/Swiss-Prot Function]

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 <u>techsupport@origene.com</u>.

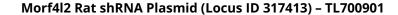
If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.



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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).