

## Product datasheet for **TR505075**

### Ep400 Mouse shRNA Plasmid (Locus ID 75560)

#### Product data:

<b>Product Type:</b>	shRNA Plasmids
<b>Locus ID:</b>	75560
<b>Synonyms:</b>	1700020J09Rik; AU023439; mDomino; mKIAA1498; p400
<b>Vector:</b>	pRS (TR20003)
<b>E. coli Selection:</b>	Ampicillin
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Retroviral plasmids
<b>Components:</b>	Ep400 – Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID = 75560). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
<b>RefSeq:</b>	<u><a href="#">NM_029337</a></u> , <u><a href="#">NM_173066</a></u> , <u><a href="#">NM_173066.1</a></u> , <u><a href="#">NM_029337.1</a></u> , <u><a href="#">NM_029337.2</a></u> , <u><a href="#">BC022153</a></u> , <u><a href="#">BC028951</a></u> , <u><a href="#">BC040256</a></u> , <u><a href="#">BC054074</a></u> , <u><a href="#">BC059926</a></u> , <u><a href="#">BC082322</a></u> , <u><a href="#">BC085511</a></u>
<b>UniProt ID:</b>	<u><a href="#">Q8CHI8</a></u>
<b>Summary:</b>	Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones 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. May be required for transcriptional activation of E2F1 and MYC target genes during cellular proliferation. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome (By similarity). Regulates transcriptional activity of ZNF42.[UniProtKB/Swiss-Prot Function]
<b>shRNA Design:</b>	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> .



**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).