

## Product datasheet for **TR503618**

### Aptx Mouse shRNA Plasmid (Locus ID 66408)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Aptx Mouse shRNA Plasmid (Locus ID 66408)
Locus ID:	66408
Synonyms:	2410016G21 Rik; AA388047; FHA-HIT
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Aptx - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 66408). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC021872</a> , <a href="#">BC068309</a> , <a href="#">NM_001025444</a> , <a href="#">NM_001025445</a> , <a href="#">NM_025545</a> , <a href="#">NM_001025444.1</a> , <a href="#">NM_001025444.2</a> , <a href="#">NM_001025444.3</a> , <a href="#">NM_025545.1</a> , <a href="#">NM_025545.2</a> , <a href="#">NM_025545.3</a> , <a href="#">NM_025545.4</a> , <a href="#">NM_001025445.1</a> , <a href="#">NM_001025445.2</a> , <a href="#">BC071213</a>
UniProt ID:	<a href="#">Q7TQC5</a>
Summary:	DNA-binding protein involved in single-strand DNA break repair, double-strand DNA break repair and base excision repair. Resolves abortive DNA ligation intermediates formed either at base excision sites, or when DNA ligases attempt to repair non-ligatable breaks induced by reactive oxygen species. Catalyzes the release of adenylate groups covalently linked to 5'-phosphate termini, resulting in the production of 5'-phosphate termini that can be efficiently rejoined (PubMed:16964241). Also able to hydrolyze adenosine 5'-monophosphoramidate (AMP-NH <sub>2</sub> ) and diadenosine tetraphosphate (AppppA), but with lower catalytic activity (By similarity). Likewise, catalyzes the release of 3'-linked guanosine (DNAppG) and inosine (DNAppI) from DNA, but has higher specific activity with 5'-linked adenosine (AppDNA) (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 <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).