

## Product datasheet for **TR517299**

### Chfr Mouse shRNA Plasmid (Locus ID 231600)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Chfr Mouse shRNA Plasmid (Locus ID 231600)
Locus ID:	231600
Synonyms:	5730484M20Rik; C230082M18; RNF116
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Chfr - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 231600). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC049792</a> , <a href="#">NM_001289577</a> , <a href="#">NM_001289578</a> , <a href="#">NM_001289579</a> , <a href="#">NM_001289580</a> , <a href="#">NM_172717</a> , <a href="#">NM_172717.1</a> , <a href="#">NM_172717.2</a> , <a href="#">NM_172717.3</a> , <a href="#">NM_172717.4</a> , <a href="#">NM_001289580.1</a> , <a href="#">NM_001289579.1</a> , <a href="#">NM_001289578.1</a> , <a href="#">NM_001289577.1</a>
UniProt ID:	<a href="#">Q810L3</a>
Summary:	E3 ubiquitin-protein ligase that functions in the antepause checkpoint by actively delaying passage into mitosis in response to microtubule poisons. Acts in early prophase before chromosome condensation, when the centrosome move apart from each other along the periphery of the nucleus. Probably involved in signaling the presence of mitotic stress caused by microtubule poisons by mediating the 'Lys-48'-linked ubiquitination of target proteins, leading to their degradation by the proteasome. Promotes the ubiquitination and subsequent degradation of AURKA and PLK1. Probably acts as a tumor suppressor, possibly by mediating the polyubiquitination of HDAC1, leading to its degradation. May also promote the formation of 'Lys-63'-linked polyubiquitin chains and functions with the specific ubiquitin-conjugating UBC13-MMS2 (UBE2N-UBE2V2) heterodimer. Substrates that are polyubiquitinated at 'Lys-63' are usually not targeted for degradation, but are rather involved in signaling cellular stress (By similarity).[UniProtKB/Swiss-Prot Function]



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- 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](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).
- 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).