

## Product datasheet for **TR304693**

### FAM111A Human shRNA Plasmid Kit (Locus ID 63901)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	FAM111A Human shRNA Plasmid Kit (Locus ID 63901)
Locus ID:	63901
Synonyms:	GCLEB; KCS2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	FAM111A - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 63901). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001142519</a> , <a href="#">NM_001142520</a> , <a href="#">NM_001142521</a> , <a href="#">NM_001312909</a> , <a href="#">NM_001312910</a> , <a href="#">NM_001312911</a> , <a href="#">NM_022074</a> , <a href="#">NM_198847</a> , <a href="#">NM_022074.1</a> , <a href="#">NM_022074.2</a> , <a href="#">NM_022074.3</a> , <a href="#">NM_198847.1</a> , <a href="#">NM_198847.2</a> , <a href="#">NM_001142519.1</a> , <a href="#">NM_001142519.2</a> , <a href="#">NM_001142520.1</a> , <a href="#">NM_001142520.2</a> , <a href="#">NM_001142521.1</a> , <a href="#">NM_001142521.2</a> , <a href="#">BC071759</a> , <a href="#">BC071759.1</a> , <a href="#">BC013137</a> , <a href="#">BC041693</a> , <a href="#">BC054515</a> , <a href="#">NM_001369457</a> , <a href="#">NM_001369455</a> , <a href="#">NM_001369456</a> , <a href="#">NM_001142519.3</a> , <a href="#">NM_001142520.3</a> , <a href="#">NM_001142521.3</a> , <a href="#">NM_198847.3</a> , <a href="#">NM_022074.4</a>
UniProt ID:	<a href="#">Q96PZ2</a>
Summary:	The protein encoded by this gene is cell-cycle regulated, and has nuclear localization. The C-terminal half of the protein shares homology with trypsin-like peptidases and it contains a PCNA-interacting peptide (PIP) box, that is necessary for its co-localization with proliferating cell nuclear antigen (PCNA). Reduced expression of this gene resulted in DNA replication defects, consistent with the demonstrated role for this gene in Simian Virus 40 (SV40) viral replication. Mutations in this gene have been associated with Kenny-Caffey syndrome (KCS) type 2 and the more severe osteocraniostenosis (OCS, also known as Gracile Bone Dysplasia), both characterized by short stature, hypoparathyroidism, bone development abnormalities, and hypocalcemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]



[View online »](#)

- 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).