

## Product datasheet for **TR314315**

### FAM208A Human shRNA Plasmid Kit (Locus ID 23272)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	FAM208A Human shRNA Plasmid Kit (Locus ID 23272)
Locus ID:	23272
Synonyms:	C3orf63; FAM208A; RAP140; se89-1; TASOR1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	FAM208A - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 23272). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001112736</a> , <a href="#">NM_015224</a> , <a href="#">NM_015224.1</a> , <a href="#">NM_015224.2</a> , <a href="#">NM_015224.3</a> , <a href="#">NM_001112736.1</a> , <a href="#">BC014569</a> , <a href="#">BC029354</a> , <a href="#">BC070096</a> , <a href="#">BC129987</a> , <a href="#">NM_001365635</a> , <a href="#">NM_001365636</a> , <a href="#">NM_001363940</a> , <a href="#">NM_001365637</a> , <a href="#">NM_001365638</a> , <a href="#">NM_001112736.2</a>
UniProt ID:	<a href="#">Q9UK61</a>
Summary:	Component of the HUSH complex, a multiprotein complex that mediates epigenetic repression (PubMed:26022416, PubMed:28581500). The HUSH complex is recruited to genomic loci rich in H3K9me3 and is required to maintain transcriptional silencing by promoting recruitment of SETDB1, a histone methyltransferase that mediates further deposition of H3K9me3, as well as MORC2 (PubMed:26022416, PubMed:28581500). Also represses L1 retrotransposons in collaboration with MORC2 and, probably, SETDB1, the silencing is dependent of repressive epigenetic modifications, such as H3K9me3 mark. Silencing events often occur within introns of transcriptionally active genes, and lead to the down-regulation of host gene expression (PubMed:29211708). The HUSH complex is also involved in the silencing of unintegrated retroviral DNA by being recruited by ZNF638: some part of the retroviral DNA formed immediately after infection remains unintegrated in the host genome and is transcriptionally repressed (PubMed:30487602).[UniProtKB/Swiss-Prot Function]


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<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> .
<b>Performance Guaranteed:</b>	<p>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.</p> <p>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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a>. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).</p>