

## Product datasheet for **TR306984**

### TEX264 Human shRNA Plasmid Kit (Locus ID 51368)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	TEX264 Human shRNA Plasmid Kit (Locus ID 51368)
Locus ID:	51368
Synonyms:	ZSIG11
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	TEX264 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 51368). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001129884</a> , <a href="#">NM_001243725</a> , <a href="#">NM_001243726</a> , <a href="#">NM_001243727</a> , <a href="#">NM_001278195</a> , <a href="#">NM_015926</a> , <a href="#">NR_024012</a> , <a href="#">NR_103462</a> , <a href="#">NR_103463</a> , <a href="#">NM_015926.1</a> , <a href="#">NM_015926.2</a> , <a href="#">NM_015926.3</a> , <a href="#">NM_015926.4</a> , <a href="#">NM_015926.5</a> , <a href="#">NM_001129884.1</a> , <a href="#">NM_001129884.2</a> , <a href="#">NM_001243727.1</a> , <a href="#">NM_001243727.2</a> , <a href="#">NM_001243725.1</a> , <a href="#">NM_001243726.1</a> , <a href="#">NM_001278195.1</a> , <a href="#">BC008742</a> , <a href="#">BC008742.2</a> , <a href="#">BC001592</a> , <a href="#">NM_015926.6</a> , <a href="#">NM_001243725.2</a> , <a href="#">NM_001243726.2</a>
UniProt ID:	<a href="#">Q9Y6I9</a>
Summary:	Major reticulophagy (also called ER-phagy) receptor that acts independently of other candidate reticulophagy receptors to remodel subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover (PubMed:31006538, PubMed:31006537). The ATG8-containing isolation membrane (IM) cradles a tubular segment of TEX264-positive ER near a three-way junction, allowing the formation of a synapse of 2 juxtaposed membranes with trans interaction between the TEX264 and ATG8 proteins (PubMed:31006537). Expansion of the IM would extend the capture of ER, possibly through a 'zipper-like' process involving continued trans TEX264-ATG8 interactions, until poorly understood mechanisms lead to the fission of relevant membranes and, ultimately, autophagosomal membrane closure (PubMed:31006537). [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).