

## Product datasheet for **TR309853**

### RFXANK Human shRNA Plasmid Kit (Locus ID 8625)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	RFXANK Human shRNA Plasmid Kit (Locus ID 8625)
Locus ID:	8625
Synonyms:	ANKRA1; BLS; F14150_1; RFX-B
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	RFXANK - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 8625). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001278727</a> , <a href="#">NM_001278728</a> , <a href="#">NM_003721</a> , <a href="#">NM_134440</a> , <a href="#">NM_003721.1</a> , <a href="#">NM_003721.2</a> , <a href="#">NM_003721.3</a> , <a href="#">NM_134440.1</a> , <a href="#">NM_134440.2</a> , <a href="#">NM_001278727.1</a> , <a href="#">BC114563</a> , <a href="#">BC114558</a> , <a href="#">BM682278</a> , <a href="#">BM712354</a> , <a href="#">NM_001370233</a> , <a href="#">NM_001370235</a> , <a href="#">NM_001370237</a> , <a href="#">NM_001370238</a> , <a href="#">NM_001370234</a> , <a href="#">NM_001370236</a> , <a href="#">NM_003721.4</a>
UniProt ID:	<a href="#">O14593</a>
Summary:	Major histocompatibility (MHC) class II molecules are transmembrane proteins that have a central role in development and control of the immune system. The protein encoded by this gene, along with regulatory factor X-associated protein and regulatory factor-5, forms a complex that binds to the X box motif of certain MHC class II gene promoters and activates their transcription. Once bound to the promoter, this complex associates with the non-DNA-binding factor MHC class II transactivator, which controls the cell type specificity and inducibility of MHC class II gene expression. This protein contains ankyrin repeats involved in protein-protein interactions. Mutations in this gene have been linked to bare lymphocyte syndrome type II, complementation group B. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2013]
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).