

Product datasheet for TR302385

OriGene Technologies, Inc.

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POF1B Human shRNA Plasmid Kit (Locus ID 79983)

Product data:

Product Type: shRNA Plasmids

Product Name: POF1B Human shRNA Plasmid Kit (Locus ID 79983)

Locus ID: 79983

POF; POF2B Synonyms:

Vector: pRS (TR20003)

E. coli Selection: Ampicillin Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

POF1B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

79983). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

NM 001307940, NM 024921, NM 024921.1, NM 024921.2, NM 024921.3, BC017500, RefSeq:

NM 024921.4

UniProt ID: Q8WVV4

Summary: Premature ovarian failure (POF) is characterized by primary or secondary amenorrhea in

> women less than 40 years old. Two POF susceptibility regions called "POF1" and "POF2" have been identified by breakpoint mapping of X-autosome translocations. POF1 extends from Xq21-qter while POF2 extends from Xq13.3 to Xq21.1. This gene, POF1B, resides in the POF2

region. This gene is expressed at trace levels in mouse prenatal ovary and is barely

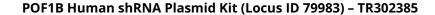
detectable or absent from adult ovary, in human and in the mouse respectively. This gene's expression is restricted to epithelia with its highest expression in the epidermis, and oropharyngeal and gastro-intestinal tracts. The protein encoded by this gene binds non-muscle actin filaments. The role this gene may play in the etiology of premature ovarian failure

remains to be determined. [provided by RefSeq, Jan 2010]

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. 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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).