

## **Product datasheet for TR303918**

#### OriGene Technologies, Inc.

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### **INPP5E Human shRNA Plasmid Kit (Locus ID 56623)**

#### **Product data:**

**Product Type:** shRNA Plasmids

Product Name: INPP5E Human shRNA Plasmid Kit (Locus ID 56623)

**Locus ID:** 56623

Synonyms: CORS1; CPD4; JBTS1; MORMS; pharbin; PPI5PIV

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: INPP5E - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

56623). 5µg purified plasmid DNA per construct

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

RefSeq: NM 001318502, NM 019892, NM 019892.1, NM 019892.2, NM 019892.3, NM 019892.4,

NM 019892.5, BC028032, BC028032.1, BC110356, NM 019892.6

UniProt ID: Q9NRR6

**Summary:** The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase.

InsP3 5-phosphatases hydrolyze Ins(1,4,5)P3, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation. Studies of the mouse counterpart suggest that this protein may hydrolyze phosphatidylinositol 3,4,5-trisphosphate and phosphatidylinositol 3,5-bisphosphate on the cytoplasmic Golgi membrane and thereby regulate Golgi-vesicular trafficking. Mutations in this gene cause Joubert syndrome; a clinically

and genetically heterogenous group of disorders characterized by midbrain-hindbrain malformation and various associated ciliopathies that include retinal dystrophy,

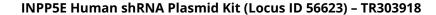
nephronophthisis, liver fibrosis and polydactyly. Alternative splicing results in multiple

transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.







# 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).