

## **Product datasheet for TL313017**

#### OriGene Technologies, Inc.

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### FCHSD2 Human shRNA Plasmid Kit (Locus ID 9873)

#### **Product data:**

**Product Type:** shRNA Plasmids

**Product Name:** FCHSD2 Human shRNA Plasmid Kit (Locus ID 9873)

**Locus ID:** 9873

**Synonyms:** NWK; NWK1; SH3MD3

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

**Mammalian Cell** 

Selection:

Puromycin

Format: Lentiviral plasmids

**Components:** FCHSD2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 9873).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: <u>BC010394</u>, <u>NM 014824</u>, <u>NM 014824.1</u>, <u>NM 014824.2</u>, <u>BC010394.1</u>, <u>BC017751</u>

UniProt ID: 094868

**Summary:** Adapter protein that plays a role in endocytosis via clathrin-coated pits. Contributes to the

internalization of cell surface receptors, such as integrin ITGB1 and transferrin receptor (PubMed:29887380). Promotes endocytosis of EGFR in cancer cells, and thereby contributes to the down-regulation of EGFR signaling (PubMed:30249660). Recruited to clathrin-coated pits during a mid-to-late stage of assembly, where it is required for normal progress from U-shaped intermediate stage pits to terminal, omega-shaped pits (PubMed:29887380). Binds to membranes enriched in phosphatidylinositol 3,4,5-

trisphosphate (PubMed:29887380). When bound to membranes, promotes actin

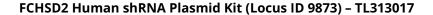
polymerization via its interaction with WAS and/or WASL which leads to the activation of the Arp2/3 complex. Does not promote actin polymerisation in the absence of membranes

(PubMed:29887380).[UniProtKB/Swiss-Prot Function]

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).