

Product datasheet for TR302028

OriGene Technologies, Inc.

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RFC5 Human shRNA Plasmid Kit (Locus ID 5985)

Product data:

Product Type: shRNA Plasmids

Product Name: RFC5 Human shRNA Plasmid Kit (Locus ID 5985)

Locus ID: 5985 Synonyms: RFC36

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: RFC5 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

5985). 5µg purified plasmid DNA per construct

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

RefSeq: <u>NM 001130112</u>, <u>NM 001130113</u>, <u>NM 001206801</u>, <u>NM 007370</u>, <u>NM 181578</u>, <u>NM 001346815</u>,

NR 144504, NM 181578.1, NM 181578.2, NM 181578.3, NM 181578.4, NM 007370.1, NM 007370.2, NM 007370.3, NM 007370.4, NM 007370.5, NM 007370.6, NM 001130112.1,

NM 001130112.2, NM 001130112.3, NM 001206801.1, NM 001206801.2, BC001866,

BC001866.1, BC013961, BC020440, BM153733, NM 007370.7

UniProt ID: P40937

Summary: This gene encodes the smallest subunit of the replication factor C complex, which consists of

five distinct subunits (140, 40, 38, 37, and 36 kDa) and is required for DNA replication. This subunit interacts with the C-terminal region of proliferating cell nuclear antigen and is required to open and load proliferating cell nuclear antigen onto DNA during S phase. It is a member of the AAA+ (ATPases associated with various cellular activities) ATPase family and forms a core complex with the 38 and 40 kDa subunits that possesses DNA-dependent ATPase activity. A related pseudogene has been identified on chromosome 9. Alternative

splicing results in multiple transcript variants. [provided by RefSeq, Nov 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).