

Product datasheet for TR300906

OriGene Technologies, Inc.

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Tankyrase 2 (TNKS2) Human shRNA Plasmid Kit (Locus ID 80351)

Product data:

Product Type: shRNA Plasmids

Product Name: Tankyrase 2 (TNKS2) Human shRNA Plasmid Kit (Locus ID 80351)

Locus ID: 80351

Synonyms: ARTD6; PARP-5b; PARP-5c; PARP5B; PARP5C; pART6; TANK2; TNKL

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: TNKS2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

80351). 5µg purified plasmid DNA per construct

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

RefSeq: NM 025235, NM 025235.1, NM 025235.2, NM 025235.3, BC023218, BC148498, BC156931

UniProt ID: Q9H2K2

Summary: Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway,

telomere length and vesicle trafficking (PubMed:11739745, PubMed:11802774,

PubMed:19759537, PubMed:21478859, PubMed:23622245, PubMed:25043379). Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation of AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated target proteins are recognized by RNF146, which mediates their ubiquitination and

subsequent degradation (PubMed:19759537, PubMed:21478859). Also mediates poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed:21478859). Mediates poly-ADP-ribosylation of TERF1, thereby contributing to the regulation of telomere length (PubMed:11739745). Stimulates 26S

proteasome activity (PubMed:23622245).[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).