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Product datasheet for TF300422

XRCC4 Human shRNA Plasmid Kit (Locus ID 7518)

Product data:

Product Type:	shRNA Plasmids
Product Name:	XRCC4 Human shRNA Plasmid Kit (Locus ID 7518)
Locus ID:	7518
Synonyms:	SSMED
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	XRCC4 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 7518). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	BC005259, NM_001318012, NM_001318013, NM_003401, NM_022406, NM_022550, NM_022406.1, NM_022406.2, NM_022406.3, NM_003401.1, NM_003401.2, NM_003401.3, NM_003401.4, NM_022550.1, NM_022550.2, NM_022550.3, BC005259.1, BC016314, BC016314.1, BC010655, NM_022406.4, NM_003401.5
UniProt ID:	Q13426
Summary:	The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternate transcript variants such as NM_022406 are unlikely to be expressed in some individuals due to a polymorphism (rs1805377) in the last splice acceptor site. [provided by RefSeq, Oct 2019]
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.

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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).