

Product datasheet for **TR300459**

WHSC1 Human shRNA Plasmid Kit (Locus ID 7468)

Product data:

Product Type:	shRNA Plasmids
Product Name:	WHSC1 Human shRNA Plasmid Kit (Locus ID 7468)
Locus ID:	7468
Synonyms:	KMT3F; KMT3G; MMSET; REIIBP; TRX5; WHS; WHSC1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NSD2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 7468). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001042424 , NM_007331 , NM_014919 , NM_133330 , NM_133331 , NM_133332 , NM_133333 , NM_133334 , NM_133335 , NM_133336 , NM_133334.1 , NM_133334.2 , NM_001042424.1 , NM_001042424.2 , NM_007331.1 , NM_133330.1 , NM_133330.2 , NM_133331.1 , NM_133331.2 , NM_133335.1 , NM_133335.2 , NM_133335.3 , NM_133332.1 , NM_133336.1 , BC020545 , BC032731 , BC052254 , BC070176 , BC094825 , BC110899 , BC141815 , BC144464 , BC152412 , BC166668 , BM982021 , NM_001042424.3
UniProt ID:	O96028
Summary:	This gene encodes a protein that contains four domains present in other developmental proteins: a PWWP domain, an HMG box, a SET domain, and a PHD-type zinc finger. It is expressed ubiquitously in early development. Wolf-Hirschhorn syndrome (WHS) is a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4. This gene maps to the 165 kb WHS critical region and has also been involved in the chromosomal translocation t(4;14)(p16.3;q32.3) in multiple myelomas. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. Some transcript variants are nonsense-mediated mRNA (NMD) decay candidates, hence not represented as reference sequences. [provided by RefSeq, Jul 2008]



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- 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](#).
- 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).