

## Product datasheet for **TL305065**

### DDX4 Human shRNA Plasmid Kit (Locus ID 54514)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	DDX4 Human shRNA Plasmid Kit (Locus ID 54514)
Locus ID:	54514
Synonyms:	DEAD (Asp-Glu-Ala-Asp) box polypeptide 4; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 4; MGC111074; OTTHUMP00000122546; VASA
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	DDX4 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 54514). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001136034</a> , <a href="#">NM_001142549</a> , <a href="#">NM_001166533</a> , <a href="#">NM_001166534</a> , <a href="#">NM_019039</a> , <a href="#">NM_024415</a> , <a href="#">NM_024415.1</a> , <a href="#">NM_024415.2</a> , <a href="#">NM_001142549.1</a> , <a href="#">NM_001166534.1</a> , <a href="#">NM_001136034.1</a> , <a href="#">BC088362</a> , <a href="#">BC088362.1</a> , <a href="#">BC047455</a> , <a href="#">BC030638</a> , <a href="#">NM_024415.3</a>
UniProt ID:	<a href="#">Q9NQ10</a>
Summary:	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which is a homolog of VASA proteins in Drosophila and several other species. The gene is specifically expressed in the germ cell lineage in both sexes and functions in germ cell development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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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](mailto: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).