

## Product datasheet for **TR313347**

### DUSP13 Human shRNA Plasmid Kit (Locus ID 51207)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	DUSP13 Human shRNA Plasmid Kit (Locus ID 51207)
Locus ID:	51207
Synonyms:	BEDP; DUSP13A; DUSP13B; MDSP; SKRP4; TMDP
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	DUSP13 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 51207). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001007271</a> , <a href="#">NM_001007272</a> , <a href="#">NM_001007273</a> , <a href="#">NM_001007274</a> , <a href="#">NM_001007275</a> , <a href="#">NM_001320842</a> , <a href="#">NM_001320843</a> , <a href="#">NM_016364</a> , <a href="#">NM_016364.1</a> , <a href="#">NM_016364.2</a> , <a href="#">NM_016364.3</a> , <a href="#">NM_001007272.1</a> , <a href="#">NM_001007273.1</a> , <a href="#">NM_001007271.1</a> , <a href="#">NM_001007274.1</a> , <a href="#">NM_001007275.1</a> , <a href="#">BC009778</a> , <a href="#">BC009778.1</a> , <a href="#">NM_001363514</a> , <a href="#">NM_001007273.2</a> , <a href="#">NM_001007272.2</a> , <a href="#">NM_001007271.2</a>
UniProt ID:	<a href="#">Q9UII6</a>
Summary:	Members of the protein-tyrosine phosphatase superfamily cooperate with protein kinases to regulate cell proliferation and differentiation. This superfamily is separated into two families based on the substrate that is dephosphorylated. One family, the dual specificity phosphatases (DSPs) acts on both phosphotyrosine and phosphoserine/threonine residues. This gene encodes different but related DSP proteins through the use of non-overlapping open reading frames, alternate splicing, and presumed different transcription promoters. Expression of the distinct proteins from this gene has been found to be tissue specific and the proteins may be involved in postnatal development of specific tissues. A protein encoded by the upstream ORF was found in skeletal muscle, whereas the encoded protein from the downstream ORF was found only in testis. In mouse, a similar pattern of expression was found. Multiple alternatively spliced transcript variants were described, but the full-length sequence of only some were determined. [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](mailto: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](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).