

## Product datasheet for **TR310346**

### T Plastin (PLS3) Human shRNA Plasmid Kit (Locus ID 5358)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	T Plastin (PLS3) Human shRNA Plasmid Kit (Locus ID 5358)
Locus ID:	5358
Synonyms:	BMND18; T-plastin
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PLS3 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5358). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001136025</a> , <a href="#">NM_001172335</a> , <a href="#">NM_001282337</a> , <a href="#">NM_001282338</a> , <a href="#">NM_005032</a> , <a href="#">NM_005032.1</a> , <a href="#">NM_005032.2</a> , <a href="#">NM_005032.3</a> , <a href="#">NM_005032.4</a> , <a href="#">NM_005032.5</a> , <a href="#">NM_005032.6</a> , <a href="#">NM_001136025.1</a> , <a href="#">NM_001136025.2</a> , <a href="#">NM_001136025.3</a> , <a href="#">NM_001136025.4</a> , <a href="#">NM_001172335.1</a> , <a href="#">NM_001172335.2</a> , <a href="#">NM_001282338.1</a> , <a href="#">NM_001282337.1</a> , <a href="#">BC056898</a> , <a href="#">BC056898.1</a> , <a href="#">BC039049</a> , <a href="#">BC008588</a> , <a href="#">BC150494</a> , <a href="#">BM979335</a> , <a href="#">NM_001282338.2</a> , <a href="#">NM_001172335.3</a> , <a href="#">NM_001282337.2</a> , <a href="#">NM_005032.7</a> , <a href="#">NM_001136025.5</a>
UniProt ID:	<a href="#">P13797</a>
Summary:	Plastins are a family of actin-binding proteins that are conserved throughout eukaryote evolution and expressed in most tissues of higher eukaryotes. In humans, two ubiquitous plastin isoforms (L and T) have been identified. Plastin 1 (otherwise known as Fimbrin) is a third distinct plastin isoform which is specifically expressed at high levels in the small intestine. The L isoform is expressed only in hemopoietic cell lineages, while the T isoform has been found in all other normal cells of solid tissues that have replicative potential (fibroblasts, endothelial cells, epithelial cells, melanocytes, etc.). The C-terminal 570 amino acids of the T-plastin and L-plastin proteins are 83% identical. It contains a potential calcium-binding site near the N terminus. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]



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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).