

## Product datasheet for **TL503124**

### Espn Mouse shRNA Plasmid (Locus ID 56226)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Espn Mouse shRNA Plasmid (Locus ID 56226)
Locus ID:	56226
Synonyms:	je
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Espn - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 56226). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_019585</a> , <a href="#">NM_207687</a> , <a href="#">NM_207688</a> , <a href="#">NM_207689</a> , <a href="#">NM_207690</a> , <a href="#">NM_207691</a> , <a href="#">NM_207687.1</a> , <a href="#">NM_207687.2</a> , <a href="#">NM_207688.1</a> , <a href="#">NM_207688.2</a> , <a href="#">NM_207691.1</a> , <a href="#">NM_207691.2</a> , <a href="#">NM_207689.1</a> , <a href="#">NM_207689.2</a> , <a href="#">NM_207690.1</a> , <a href="#">NM_207690.2</a> , <a href="#">NM_019585.1</a> , <a href="#">NM_019585.2</a> , <a href="#">NM_019585.3</a> , <a href="#">BC044723</a> , <a href="#">BC057888</a> , <a href="#">NM_207687.3</a>
UniProt ID:	<a href="#">Q9ET47</a>
Summary:	Multifunctional actin-bundling protein. Plays a major role in regulating the organization, dimension, dynamics and signaling capacities of the actin filament-rich microvilli in the mechanosensory and chemosensory cells (PubMed:14657236, PubMed:15190118). Required for the assembly and stabilization of the stereociliary parallel actin bundles. Plays a crucial role in the formation and maintenance of inner ear hair cell stereocilia (PubMed:21455486). Involved in the elongation of actin in stereocilia (PubMed:19287378, PubMed:22264607). In extrastricular hair cells, required for targeting MYO3B to stereocilia tips, and for regulation of stereocilia diameter and staircase formation (PubMed:26926603).[UniProtKB/Swiss-Prot Function]
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).