

## Product datasheet for **TR308113**

### Zyxin (ZYG) Human shRNA Plasmid Kit (Locus ID 7791)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Zyxin (ZYX) Human shRNA Plasmid Kit (Locus ID 7791)
Locus ID:	7791
Synonyms:	ESP-2; HED-2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ZYX - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 7791). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001010972</a> , <a href="#">NM_003461</a> , <a href="#">NM_001010972.1</a> , <a href="#">NM_003461.1</a> , <a href="#">NM_003461.2</a> , <a href="#">NM_003461.3</a> , <a href="#">NM_003461.4</a> , <a href="#">BC008743</a> , <a href="#">BC002323</a> , <a href="#">BC009360</a> , <a href="#">BC010031</a> , <a href="#">BC017183</a> , <a href="#">NM_001362783</a> , <a href="#">NM_001010972.2</a> , <a href="#">NM_003461.5</a>
UniProt ID:	<a href="#">Q15942</a>
Summary:	Focal adhesions are actin-rich structures that enable cells to adhere to the extracellular matrix and at which protein complexes involved in signal transduction assemble. Zyxin is a zinc-binding phosphoprotein that concentrates at focal adhesions and along the actin cytoskeleton. Zyxin has an N-terminal proline-rich domain and three LIM domains in its C-terminal half. The proline-rich domain may interact with SH3 domains of proteins involved in signal transduction pathways while the LIM domains are likely involved in protein-protein binding. Zyxin may function as a messenger in the signal transduction pathway that mediates adhesion-stimulated changes in gene expression and may modulate the cytoskeletal organization of actin bundles. Alternative splicing results in multiple transcript variants that encode the same isoform. [provided by RefSeq, Jul 2008]
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).