

## Product datasheet for **TL311906**

### **KIF5B Human shRNA Plasmid Kit (Locus ID 3799)**

#### **Product data:**

|                                  |  |
|----------------------------------|--|
| <b>Product Type:</b>             | shRNA Plasmids   |
| <b>Product Name:</b>             | KIF5B Human shRNA Plasmid Kit (Locus ID 3799)  |
| <b>Locus ID:</b>                 | 3799   |
| <b>Synonyms:</b>                 | HEL-S-61; KINH; KNS; KNS1; UKHC  |
| <b>Vector:</b>                   | pGFP-C-shLenti (TR30023)   |
| <b>E. coli Selection:</b>        | Chloramphenicol (34 ug/ml)   |
| <b>Mammalian Cell Selection:</b> | Puromycin  |
| <b>Format:</b>                   | Lentiviral plasmids  |
| <b>Components:</b>               | KIF5B - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 3799).<br>5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.  |
| <b>RefSeq:</b>                   | <a href="#">NM_004521</a> , <a href="#">NM_004521.1</a> , <a href="#">NM_004521.2</a> , <a href="#">BC010885</a> , <a href="#">BC065267</a> , <a href="#">BC080604</a> , <a href="#">BC111042</a> , <a href="#">BC126279</a> , <a href="#">BC126281</a> , <a href="#">NM_004521.3</a>  |
| <b>UniProt ID:</b>               | <a href="#">P33176</a>   |
| <b>Summary:</b>                  | Microtubule-dependent motor required for normal distribution of mitochondria and lysosomes. Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner (By similarity). Regulates centrosome and nuclear positioning during mitotic entry. During the G2 phase of the cell cycle in a BICD2-dependent manner, antagonizes dynein function and drives the separation of nuclei and centrosomes (PubMed:20386726). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).[UniProtKB/Swiss-Prot Function] |
| <b>shRNA Design:</b>             | 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).