OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TL500741

Fzd6 Mouse shRNA Plasmid (Locus ID 14368)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Fzd6 Mouse shRNA Plasmid (Locus ID 14368)
Locus ID:	14368
Synonyms:	Fz6
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Fzd6 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 14368). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC026150, NM_001162494, NM_008056, NM_001162494.1, NM_008056.1, NM_008056.2, NM_008056.3
UniProt ID:	Q61089
Summary:	Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. Activation by Wnt5A stimulates PKC activity via a G-protein-dependent mechanism. Involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues (By similarity). Together with FZD3, is involved in the neural tube closure and plays a role in the regulation of the establishment of planar cell polarity (PCP), particularly in the orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and vestibular sensory cells located in the inner ear.[UniProtKB/Swiss-Prot Function]

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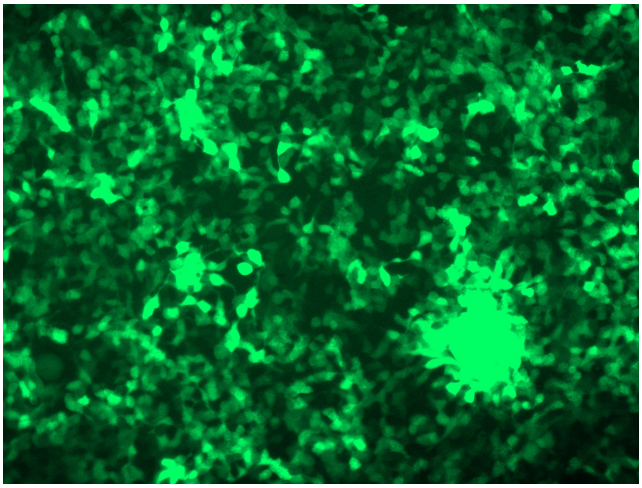
shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

Product images:



GFP signal was observed under microscope at 48 hours after transduction of TL500741A virus into HEK293 cells. TL500741A virus was prepared using lenti-shRNA TL500741A and [TR30037] packaging kit.

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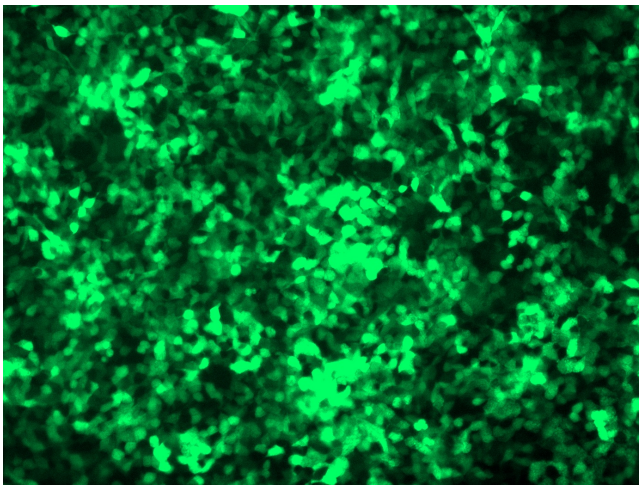
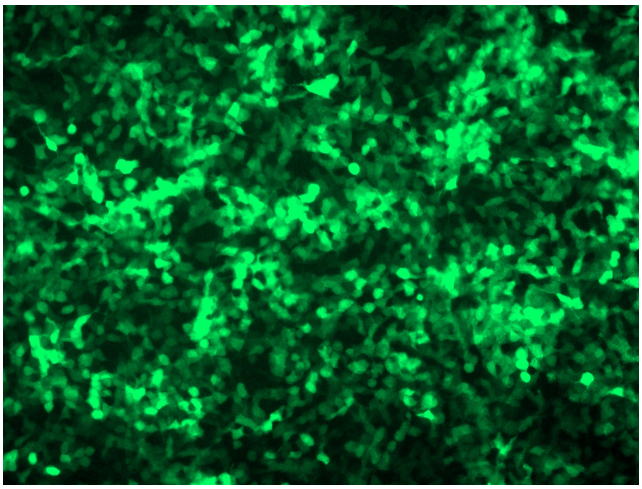
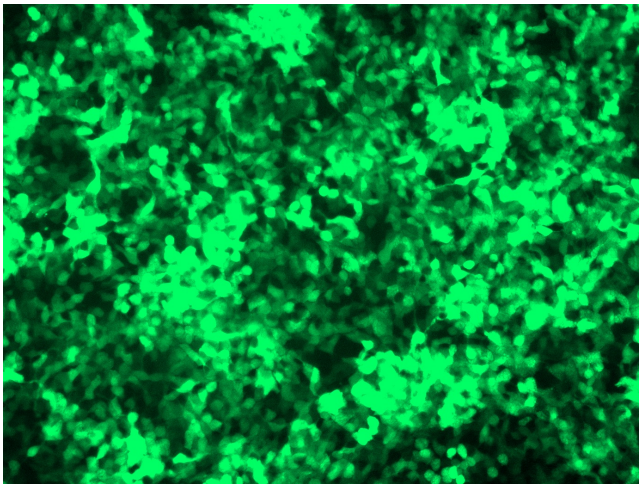


GFP signal was observed under microscope at 48 hours after transduction of TL500741B virus into HEK293 cells. TL500741B virus was prepared using lenti-shRNA TL500741B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL500741C] virus into HEK293 cells. [TL500741C] virus was prepared using lenti-shRNA [TL500741C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL500741D] virus into HEK293 cells. [TL500741D] virus was prepared using lenti-shRNA [TL500741D] and [TR30037] packaging kit.

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