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Product datasheet for TL302821

ODF2 Human shRNA Plasmid Kit (Locus ID 4957)

Product data:

Product Type:	shRNA Plasmids
Product Name:	ODF2 Human shRNA Plasmid Kit (Locus ID 4957)
Locus ID:	4957
Synonyms:	CT134; ODF2/1; ODF2/2; ODF84
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ODF2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 4957). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001242352, NM_001242353, NM_001242354, NM_002540, NM_153432, NM_153433, NM_153435, NM_153436, NM_153437, NM_153439, NM_153440, NR_036754, NR_036755, NR_036756, NR_036757, NM_001351577, NM_001351578, NM_001351579, NM_001351580, NM_001351581, NM_001351582, NM_001351583, NM_001351584, NM_001351585, NM_001351586, NM_001351587, NM_001351588, NM_153437.1, NM_153437.2, NM_153433.1, NM_153439.1, NM_153436.1, NM_153432.1, NM_153435.1, NM_001242354.1, NM_153440.1, NM_001242352.1, NM_001242353.1, NM_002540.3, BC010629, BC010629.1, BC091500, BC012785, BM563800, BM928430
UniProt ID:	Q5BJF6
Summary:	The outer dense fibers are cytoskeletal structures that surround the axoneme in the middle piece and principal piece of the sperm tail. The fibers function in maintaining the elastic structure and recoil of the sperm tail as well as in protecting the tail from shear forces during epididymal transport and ejaculation. Defects in the outer dense fibers lead to abnormal sperm morphology and infertility. This gene encodes one of the major outer dense fiber proteins. Alternative splicing results in multiple transcript variants. The longer transcripts, also known as 'Cenexins', encode proteins with a C-terminal extension that are differentially targeted to somatic centrioles and thought to be crucial for the formation of microtubule organizing centers. [provided by RefSeq, Oct 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. 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).