

# **Product datasheet for TL311105**

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## NR2F6 Human shRNA Plasmid Kit (Locus ID 2063)

**Product data:** 

**Product Type:** shRNA Plasmids

Product Name: NR2F6 Human shRNA Plasmid Kit (Locus ID 2063)

**Locus ID:** 2063

**Synonyms:** EAR-2; EAR2; ERBAL2

**Vector:** pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

**Mammalian Cell** 

Selection:

Puromycin

Format: Lentiviral plasmids

**Components:** NR2F6 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 2063).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 005234, NM 005234.1, NM 005234.2, NM 005234.3, BC002669, BC063018, BC084544

UniProt ID: P10588

**Summary:** Transcription factor predominantly involved in transcriptional repression. Binds to

promoter/enhancer response elements that contain the imperfect 5'-AGGTCA-3' direct or inverted repeats with various spacings which are also recognized by other nuclear hormone receptors. Involved in modulation of hormonal responses. Represses transcriptional activity of the lutropin-choriogonadotropic hormone receptor/LHCGR gene, the renin/REN gene and the oxytocin-neurophysin/OXT gene. Represses the triiodothyronine-dependent and - independent transcriptional activity of the thyroid hormone receptor gene in a cell type-specific manner. The corepressing function towards thyroid hormone receptor beta/THRB involves at least in part the inhibition of THRB binding to triiodothyronine response elements (TREs) by NR2F6. Inhibits NFATC transcription factor DNA binding and subsequently its transcriptional activity. Acts as transcriptional repressor of IL-17 expression in Th-17 differentiated CD4(+) T cells and may be involved in induction and/or maintenance of peripheral immunological tolerance and autoimmunity. Involved in development of forebrain circadian clock; is required early in the development of the locus coeruleus (LC).

[UniProtKB/Swiss-Prot Function]





#### shRNA Design:

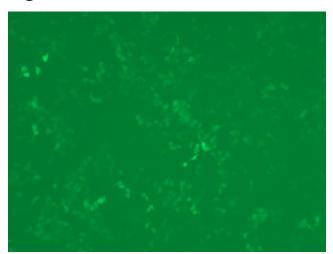
These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a>. If you need a special design or shRNA sequence, please utilize our <a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

### 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.

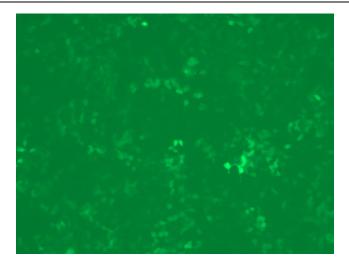
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

## **Product images:**

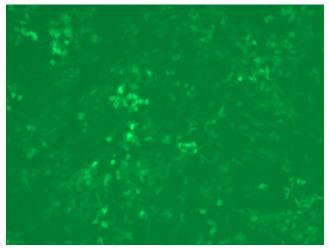


GFP signal was observed under microscope at 48 hours after transduction of TL311105A virus into HEK293 cells. TL311105A virus was prepared using lenti-shRNA TL311105A and [TR30037] packaging kit.

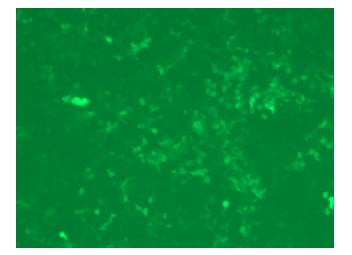




GFP signal was observed under microscope at 48 hours after transduction of TL311105B virus into HEK293 cells. TL311105B virus was prepared using lenti-shRNA TL311105B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL311105C] virus into HEK293 cells. [TL311105C] virus was prepared using lenti-shRNA [TL311105C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL311105D] virus into HEK293 cells. [TL311105D] virus was prepared using lenti-shRNA [TL311105D] and [TR30037] packaging kit.