

## Product datasheet for **TL314701**

### ARF4 Human shRNA Plasmid Kit (Locus ID 378)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	ARF4 Human shRNA Plasmid Kit (Locus ID 378)
Locus ID:	378
Synonyms:	ARF2
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ARF4 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 378). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001660</a> , <a href="#">NM_001660.1</a> , <a href="#">NM_001660.2</a> , <a href="#">NM_001660.3</a> , <a href="#">BC016325</a> , <a href="#">BC016325.1</a> , <a href="#">BC003364</a> , <a href="#">BC008753</a> , <a href="#">BC022866</a> , <a href="#">NM_001660.4</a>
UniProt ID:	<a href="#">P18085</a>
Summary:	This gene is a member of the human ARF gene family whose members encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking and as activators of phospholipase D. The gene products include 5 ARF proteins and 11 ARF-like proteins and constitute one family of the RAS superfamily. The ARF proteins are categorized as class I, class II and class III; this gene is a class II member. The members of each class share a common gene organization. The ARF4 gene spans approximately 12kb and contains six exons and five introns. This gene is the most divergent member of the human ARFs. Conflicting map positions at 3p14 or 3p21 have been reported for this gene. [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> .

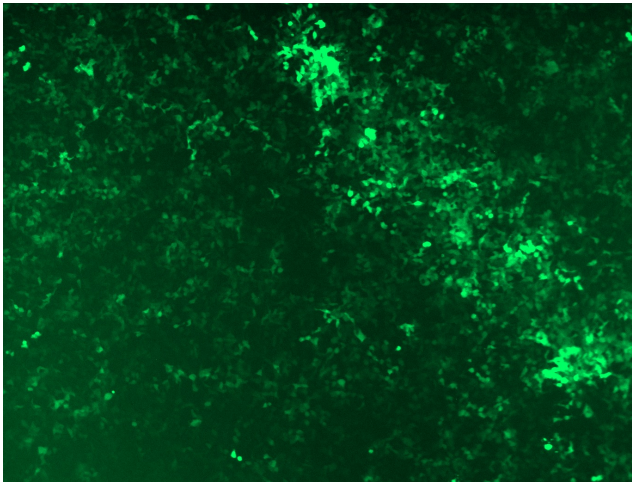


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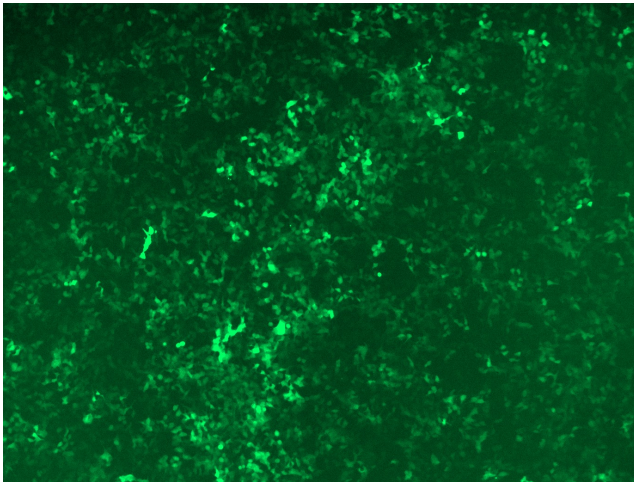
**Performance  
Guaranteed:**

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.

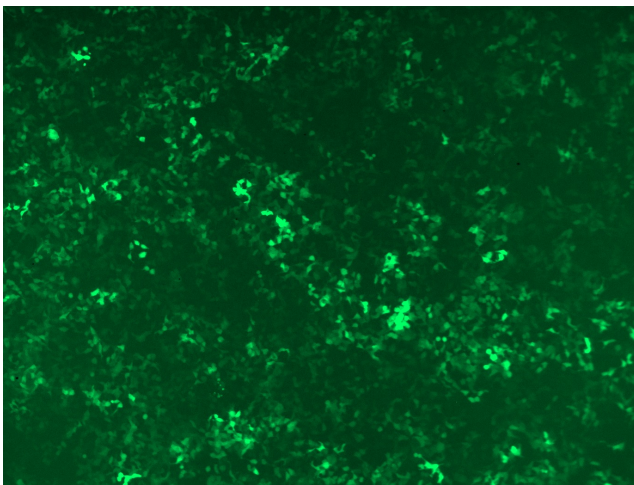
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com).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

**Product images:**

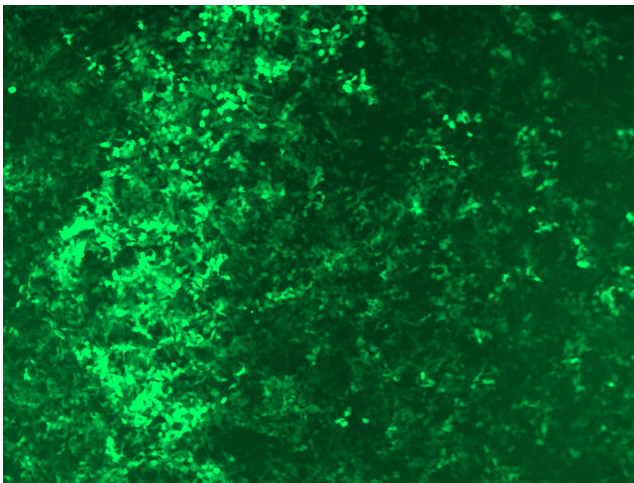
GFP signal was observed under microscope at 48 hours after transduction of TL314701A virus into HEK293 cells. TL314701A virus was prepared using lenti-shRNA TL314701A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL314701B virus into HEK293 cells. TL314701B virus was prepared using lenti-shRNA TL314701B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314701C] virus into HEK293 cells. [TL314701C] virus was prepared using lenti-shRNA [TL314701C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314701D] virus into HEK293 cells. [TL314701D] virus was prepared using lenti-shRNA [TL314701D] and [TR30037] packaging kit.