

## Product datasheet for **TL306606**

### ARHGEF3 Human shRNA Plasmid Kit (Locus ID 50650)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	ARHGEF3 Human shRNA Plasmid Kit (Locus ID 50650)
Locus ID:	50650
Synonyms:	GEF3; STA3; XPLN
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ARHGEF3 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 50650). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001128615</a> , <a href="#">NM_001128616</a> , <a href="#">NM_001289698</a> , <a href="#">NM_019555</a> , <a href="#">NM_019555.1</a> , <a href="#">NM_019555.2</a> , <a href="#">NM_001128616.1</a> , <a href="#">NM_001128615.1</a> , <a href="#">NM_001289698.1</a> , <a href="#">BC054345</a> , <a href="#">BC022249</a> , <a href="#">BC068513</a> , <a href="#">BC094748</a> , <a href="#">BC098122</a> , <a href="#">BC098272</a> , <a href="#">BC099715</a> , <a href="#">BC104723</a> , <a href="#">NM_001289698.2</a> , <a href="#">NM_001128616.2</a> , <a href="#">NM_019555.3</a> , <a href="#">NM_001128615.2</a>
UniProt ID:	<a href="#">Q9NR81</a>
Summary:	Rho-like GTPases are involved in a variety of cellular processes, and they are activated by binding GTP and inactivated by conversion of GTP to GDP by their intrinsic GTPase activity. Guanine nucleotide exchange factors (GEFs) accelerate the GTPase activity of Rho GTPases by catalyzing their release of bound GDP. This gene encodes a guanine nucleotide exchange factor, which specifically activates two members of the Rho GTPase family: RHOA and RHOB, both of which have a role in bone cell biology. It has been identified that genetic variation in this gene plays a role in the determination of bone mineral density (BMD), indicating the implication of this gene in postmenopausal osteoporosis. Alternatively spliced transcript variants encoding different isoforms have been found 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).