

## Product datasheet for **TG316581**

### HOXA10 Human shRNA Plasmid Kit (Locus ID 3206)

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | shRNA Plasmids  |
| Product Name:             | HOXA10 Human shRNA Plasmid Kit (Locus ID 3206)  |
| Locus ID:                 | 3206  |
| Synonyms:                 | HOX1; HOX1.8; HOX1H; PL   |
| Vector:                   | pGFP-V-RS (TR30007)   |
| E. coli Selection:        | Kanamycin   |
| Mammalian Cell Selection: | Puromycin   |
| Format:                   | Retroviral plasmids   |
| Components:               | HOXA10 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 3206).<br>5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.   |
| RefSeq:                   | <a href="#">NM_018951</a> , <a href="#">NM_153715</a> , <a href="#">NR_037939</a> , <a href="#">NM_018951.1</a> , <a href="#">NM_018951.2</a> , <a href="#">NM_018951.3</a> ,<br><a href="#">NM_153715.2</a> , <a href="#">BC013971</a> , <a href="#">BC013971.2</a> , <a href="#">BC007600</a> , <a href="#">BC071843</a> , <a href="#">BC094807</a> , <a href="#">NM_018951.4</a>   |
| UniProt ID:               | <a href="#">P31260</a>  |
| Summary:                  | In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor that may regulate gene expression, morphogenesis, and differentiation. More specifically, it may function in fertility, embryo viability, and regulation of hematopoietic lineage commitment. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the downstream homeobox A9 (HOXA9) gene. [provided by RefSeq, Mar 2011] |
| 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).