

## Product datasheet for **TG303935**

### IL4I1 Human shRNA Plasmid Kit (Locus ID 259307)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | IL4I1 Human shRNA Plasmid Kit (Locus ID 259307)  |
| Locus ID:                 | 259307   |
| Synonyms:                 | FIG1; hIL4I1; LAAO; LAO  |
| Vector:                   | pGFP-V-RS (TR30007)  |
| E. coli Selection:        | Kanamycin  |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Retroviral plasmids  |
| Components:               | IL4I1 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 259307).<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_001258017</a> , <a href="#">NM_001258018</a> , <a href="#">NM_152899</a> , <a href="#">NM_172374</a> , <a href="#">NR_047577</a> , <a href="#">NM_152899.1</a> ,<br><a href="#">NM_172374.1</a> , <a href="#">NM_172374.2</a> , <a href="#">NM_001258017.1</a> , <a href="#">NM_001258018.1</a> , <a href="#">BC090852</a> , <a href="#">BC090852.1</a> ,<br><a href="#">BC131625</a> , <a href="#">BC026103</a> , <a href="#">BC064378</a> , <a href="#">NM_152899.2</a> , <a href="#">NM_001258017.2</a> , <a href="#">NM_001258018.2</a> ,<br><a href="#">NM_172374.3</a>  |
| UniProt ID:               | <a href="#">Q96RQ9</a>   |
| Summary:                  | This gene encodes a secreted L-amino acid oxidase protein which primarily catabolizes L-phenylalanine and, to a lesser extent, L-arginine. The expression of this gene is induced by the cytokine interleukin 4 in B cells. This gene is also expressed in macrophages and dendritic cells. This protein may play a role immune system escape as it is expressed in tumor-associated macrophages and suppresses T-cell responses. This protein also contains domains thought to be involved in the binding of flavin adenine dinucleotide (FAD) cofactor. Multiple transcript variants encoding different isoforms have been found for this gene. Some transcripts of this gene share a promoter and exons of the 5' UTR with the overlapping NUP62 gene. [provided by RefSeq, Jul 2020] |
| 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> .   |



[View online »](#)

**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).