

## Product datasheet for **TR307230**

### TOR1AIP2 Human shRNA Plasmid Kit (Locus ID 163590)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | TOR1AIP2 Human shRNA Plasmid Kit (Locus ID 163590)   |
| Locus ID:                 | 163590   |
| Synonyms:                 | IFRG15; LULL1; NET9  |
| Vector:                   | pRS (TR20003)  |
| E. coli Selection:        | Ampicillin   |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Retroviral plasmids  |
| Components:               | TOR1AIP2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 163590). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.  |
| RefSeq:                   | <a href="#">NM_001199260</a> , <a href="#">NM_022347</a> , <a href="#">NM_145034</a> , <a href="#">NM_001349931</a> , <a href="#">NM_001349933</a> , <a href="#">NM_001349934</a> , <a href="#">NM_001349935</a> , <a href="#">NM_001349936</a> , <a href="#">NM_001349937</a> , <a href="#">NM_145034.1</a> , <a href="#">NM_145034.2</a> , <a href="#">NM_145034.3</a> , <a href="#">NM_145034.4</a> , <a href="#">NM_022347.2</a> , <a href="#">NM_022347.3</a> , <a href="#">NM_022347.4</a> , <a href="#">NM_001199260.1</a> , <a href="#">BC101532</a> , <a href="#">BC101532.1</a> , <a href="#">BC098348</a> , <a href="#">BC024226</a> , <a href="#">BC032790</a> , <a href="#">BC094724</a> , <a href="#">BC096704</a> , <a href="#">BC098170</a> , <a href="#">BC098309</a> , <a href="#">BC112225</a> , <a href="#">NM_022347.5</a> , <a href="#">NM_145034.5</a> , <a href="#">NM_001199260.2</a> |
| UniProt ID:               | <a href="#">Q9H496</a>   |
| Summary:                  | One of the two protein isoforms encoded by this gene is a type II integral membrane protein found in the endoplasmic reticulum (ER). The encoded protein is a cofactor for the ATPase TorsinA, regulating the amount of TorsinA present in the ER compared to that found in the nuclear envelope. Defects in this protein are a cause of early onset primary dystonia, a neuromuscular disease. The other isoform encoded by this gene is an interferon alpha responsive protein whose cellular role has yet to be determined. [provided by RefSeq, Mar 2017]  |
| 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).