

## Product datasheet for **TF314579**

### ATP5J Human shRNA Plasmid Kit (Locus ID 522)

#### Product data:

<b>Product Type:</b>	shRNA Plasmids
<b>Locus ID:</b>	522
<b>Synonyms:</b>	ATP5; ATP5A; ATP5J; ATPM; CF6; F6
<b>Vector:</b>	pRFP-C-RS (TR30014)
<b>E. coli Selection:</b>	Chloramphenicol (34 ug/ml)
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Retroviral plasmids
<b>Components:</b>	ATP5J - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector (Gene ID = 522). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
<b>RefSeq:</b>	<a href="#">NM_001003696</a> , <a href="#">NM_001003697</a> , <a href="#">NM_001003701</a> , <a href="#">NM_001003703</a> , <a href="#">NM_001685</a> , <a href="#">NM_001320266</a> , <a href="#">NM_001320267</a> , <a href="#">NM_001685.1</a> , <a href="#">NM_001685.2</a> , <a href="#">NM_001685.3</a> , <a href="#">NM_001685.4</a> , <a href="#">NM_001003696.1</a> , <a href="#">NM_001003701.1</a> , <a href="#">NM_001003697.1</a> , <a href="#">NM_001003703.1</a> , <a href="#">BC001178</a> , <a href="#">BC001178.1</a> , <a href="#">BC066310</a>
<b>UniProt ID:</b>	<a href="#">P18859</a>
<b>Summary:</b>	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo complex has nine subunits (α, β, γ, δ, ε, f, g, F6 and 8). This gene encodes the F6 subunit of the Fo complex. The F6 subunit is required for F1 and Fo interactions. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. This gene has 1 or more pseudogenes. [provided by RefSeq, Feb 2016]



**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 [techsupport@origene.com](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

**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).