

## Product datasheet for **SC312586**

### ATAD3A (AK097309) Human Untagged Clone

#### Product data:

|                        |   |
|------------------------|---|
| Product Type:          | Expression Plasmids   |
| Product Name:          | ATAD3A (AK097309) Human Untagged Clone  |
| Tag:                   | Tag Free  |
| Symbol:                | ATAD3A  |
| Synonyms:              | AAA-TOB3; TOB3  |
| Vector:                | <u>pCMV6 series</u>   |
| Fully Sequenced ORF:   | >NCBI ORF sequence for AK097309, the custom clone sequence may differ by one or more nucleotides  |
| Restriction Sites:     | Please inquire  |
| ACCN:                  | AK097309  |
| OTI Disclaimer:        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| OTI Annotation:        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.  |
| Components:            | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).  |
| Reconstitution Method: | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol> |
| RefSeq:                | <u>AK097309.1</u>   |
| RefSeq Size:           | 2405 bp   |



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RefSeq ORF: 2405 bp

Locus ID: 55210

Cytogenetics: 1p36.33

**Gene Summary:** This gene encodes a ubiquitously expressed mitochondrial membrane protein that contributes to mitochondrial dynamics, nucleoid organization, protein translation, cell growth, and cholesterol metabolism. This gene is a member of the ATPase family AAA-domain containing 3 gene family which, in humans, includes two other paralogs. Naturally occurring mutations in this gene are associated with distinct neurological syndromes including Harel-Yoon syndrome. High-level expression of this gene is associated with poor survival in breast cancer patients. A homozygous knockout of the orthologous gene in mice results in embryonic lethality at day 7.5 due to growth retardation and defective development of the trophoblast lineage. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]