

## Product datasheet for **SC113629**

### **ATAD3A (NM\_018188) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATAD3A (NM_018188) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATAD3A
Synonyms:	HAYOS; PHRINL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_018188, the custom clone sequence may differ by one or more nucleotides

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ATGTCGTGGCTCTTCGGCATTAAACAAGGGCCCCAAGGGTGAAGGCGGGGGCCGCCGCCCTTTGCCG
CCGCGCAGCCCGGGCCGAGGGCGGGGACCGGGTGGGAGACCGCCGCCCAAGGACAAATG
GAGCAACTTCGACCCACCGGCCTGGAGCGGCCCAAGGCGGGCGGAGCTGGAGCACTCGCTTAT
GCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCTGCAGTTGGAGCAACAGTCCAAGCTCA
AAATGCGGCTGGAAGCCCTGAGCCTGCTGCACACTAGTCTGGGCATGGAGTCTCTGCCGTGCCGGAGC
CGTGCAGACACAGGAGCGGCTGTCAGGCAGTGCCAGCCCTGAGCAAGTCCAGCTGGTGTGTGTGT
CTGCAGGAGTATGAGGCCCGCTGGAGCAGCTCAAGAGCAGCAGATCCGGGCGCAGGCTGAGGAGAGGA
GGAAGACCCTGAGCGAGGAGACCCGGCAGCACCAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCGCA
GCGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCC
GTGCAGAAGCAGGAAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGA
TGCTGCGAGTGGAGGCCGAGGCCGGGCGCGCCAAGGCCGAGCGGGAGATGCAGACATCATCCGCA
GCAGATCCGCCTGAAGGCGGCCGAGCACCGTCAAGCCGCTTGGAGTCCATCAGGACGGCTGGCACCTTG
TTTGGGAAGGATTCCGTGCCTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGC
TGCTGGCTGTTGGGTCTACTCAGCCAAGAATGCCACGCTTGTGCCCGCCGCTTTCATCGAGGCTCGGCT
GGGGAAGCCGTCCTAGTGAGGGAGACGTCCCGCATCACGGTGTGGAGCGCTGCGGCACCCCATCCAG
GTCAGCCGGCGGCTCCTCAGTCGACCCAGGACGCGCTGGAGGGTGTGTGTGTGTGTGTGTGTGTGTGTGT
CACGGGTGCGCGACATCGCCATAGCAACAAGGAACACCAAGAAGAACCAGCAGCTGTACAGGAACATCCT
GATGTACGGGCCACCAGGCACCGGGAAGACGCTGTTTCCAAAGAACTCGCCCTGCCTCAGCAGCAAGTCT
TAGCCATCATGACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGTGACCGCCATGCACAAGTCT
TTGACTGGGCAATACCAGCCGGCGGGCTCCTGCTCTTTGTGGATGAAGCGGAGCCCTTCCCTCGGAA
GCGAGCCACCGAGAAGATAAGCGAGGACCTCAGGGCCACACTGAACGCTTCCGTGTACCGCACGGGCCAG
CACAGCAACAAGTTCATGCTGGTCTGGCCAGCAACCAACCAGAGCAGTTCGACTGGGCCATCAATGACC
GCATCAATGAGATGGTCCACTTCGACTGCCAGGGCAGGAGGAACGGGAGCGCTGGTGTGAGAATGTATTT
TGACAAGTATGTTCTTAAGCCGGCCACAGAAGAAAGCAGCGCTGAAGCTGGCCAGTTTGACTACGGG
AGGAAGTGTCTCGGAGTGTCTCGCTGACGGAGGGCATGTGGGGCGGGAGATCGCTCAGCTGGCCGTGT
CCTGGCAGGCCACGGCGTATGCCTCCGAGGACGGGGTCTGACCGAGGCCATGATGGACACCCGCGTGA
AGATGCTGTCCAGCAGCACCAGCAGAAGATGTGCTGGTGAAGGCGGAAGGCGCTGGGCGTGGGACGAG
CCCTCCCATCTGA
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018188 unedited

```

AATTTTCCCGCCCGNGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTGCAGCGGCCGC
GAATTCGACAGAGGGGCTCGCGCGCGTGGAGGCTGCTCCAGCCGCGCGGAGTCAGA
CTCGGGTGGGGTCCCGCGCGGCTAGCGCGGGCGGCGGTGCGAGCATGTCGTGGCTCTT
CGGCATTAACAAGGGCCCCAAGGGTGAAGACGCGGGGCCGCCGCCCTTTGCCGCCGC
GCAGCCCGGGGCCGAGGGCGGGGACCGCGGCTTGGGAGACCGCCGCGCCCAAGGA
CAAATGGAGCAACTTCGACCCACCGGCCTGGAGCGGCCGCCAAGGCGGCGCGGAGCT
GGAGCACTCGCTTATGCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCT
GCAGTTGGAGCAACAGTCCAAGCTCAAAGAGTATGAGGCCCGCTGGAGCAGCTCAAGAG
CGAGCAGATCCGGGCGCAGGCTGAGGAGAGGAGGAAGACCCTGAGCGAGGAGACCCGCA
GCACCAGGCCAGGCCAGTATCAAGACAAGCTGGCCCGCAGCGCTACGAGGACCAACT
GAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGTAGCAGGAGGAGTCCGTGACGA
GCAGGCAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACACGAATGA
GATGCTGTAGTGTAGGCTAGGCTGGCGCGGCCACGCTAGCGGTAGCATGCAGACA
TATNCTGGAGCAGAAGCCTGAAGCTGNCGAGCACGTGACAGCTTGGAGTCCATCGNA
CGCTGCACCTATGATGGGACGCATCGTGCCTTTGACAGACTGGACAATGCGACCCNGTTG
CTGN
    
```



Locus ID: 55210

UniProt ID: [Q9NVI7](#)

Cytogenetics: 1p36.33

Domains: AAA, AAA

**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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).