

Product datasheet for **SC111998**

TAZ (NM_000116) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAZ (NM_000116) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAZ
Synonyms:	BTHS; CMD3A; EFE; EFE2; G4.5; LVNCX; TAZ; Taz1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000116, the custom clone sequence may differ by one or more nucleotides

```
ATGCCTCTGCACGTGAAGTGGCCGTTCCCCGCGGTGCCGCCGCTCACCTGGACCCTGGCCAGCAGCGTCG
TCATGGGCTTGGTGGGCACCTACAGCTGCTTCTGGACCAAGTACATGAACCACCTGACCGTGACACAACAG
GGAGGTGCTGTACGAGCTCATCGAGAAGCGAGGCCCGGCCACGCCCTCATCACCGTGTCCAATCACCCAG
TCCTGCATGGACGACCCTCATCTCTGGGGGATCCTGAAACTCCGCCACATCTGGAACCTGAAGTTGATGC
GTTGGACCCTGCAGCTGCAGACATCTGCTTACCAAGGAGCTACACTCCCATTCTTCAGCTTGGGCAA
GTGTGTGCCTGTGTGCCGAGGAGCAGAATTTTTCCAAGCAGAGAATGAGGGGAAAGGTGTTCTAGACACA
GGCAGGCACATGCCAGGTGCTGGAAAAAGAAGAGAGAAAGGAGATGGCGTCTACCAGAAGGGGATGGACT
TCATTTTGGAGAAGCTCAACCATGGGGACTGGGTGCATATCTTCCAGAAGGGAAAGTGAACATGAGTTC
CGAATTCCTGCGTTTCAAGTGGGAATCGGGCGCCTGATTGCTGAGTGTCTCAACCCCATCATCCTG
CCCCTGTGGCATGTGGAATGAATGACGTCTTCTTAAACAGTCCGCCCTACTTCCCCCGCTTTGGACAGA
AAATCACTGTGCTGATCGGGAAGCCCTTCAAGTGCCTGTACTCGAGCGGCTCCGGGCGGAGAACAA
GTCGGCTGTGGAGATGCGGAAAGCCCTGACGGACTTCATTCAAGAGGAATTCAGCATCTGAAGACTCAG
GCAGAGCAGCTCCACAACCACCTCCAGCCTGGGAGATAG
```



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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000116 unedited
ATATTCGCCCGCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGC
AGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGCGA
ATTCGGCACCAGAAGGGACCTCGGTCCAGTCCCCTGTTGCGCCGCGCCCCCGTCCGTCCG
TGGCGGGCCAGTCAGGGGCCAGTGTCTCGAGCGGTGAGGTGCGAGACCTAGAGGCGCC
CCACAGGCCGGCCGGGGCGCTGGGAGCGCCGGCCGGGGCCGGGTGGGGATGCCTCTGC
ACGTGAAGTGGCGTTCCCCGCGGTGCCGCCGCTCACCTGGACCTGGCCAGCAGCGTCCG
TCATGGGCTTGGTGGGCACCTACAGCTGCTTCTGGACCAAGTACATGAACCACCTGACCG
TGCACAACAGGGAGGTGCTGTACGAGCTCATCGAGAAGCGAGGCCCGGCCACGCCCTCA
TCACCGTGTCCAATCACCAGTCTGCATGGACGACCCTCATCTCTGGGGATCCTGAAAC
TCCGCCACATCTGGAACCTGAAGTTGATGCGTTGGACCCCTGCAGCTGCAGACATCTGCT
TCACCAAGGAGCTACACTCCCCTTCTCAGCTTGAGCAAGTGTGTGCCTGTGTGCCGAG
GAGATGGCGTCTACCAGAAGNGATGGACTTCATTTTGGAGAAGCTCAACCATGGGGACT
GGGTGCATATCTCCCCAGAGGGAAAGTGAACATGAGTTCGGAATTCCTGCGNNTTCAGT
GGGAATCGGGCGCTGATTGCTGAGTGCATCTCAACCCCATCATCCTGCCCTGTGGC
ATGGNTCGATGAATGACGTCCTTNNCTAAAGTNNCGCCCTACTTCCCCCGCTTGACAGG
AAATACCTGTGCTGATCGGGAAGCCCT
```

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_000116 unedited
NNNNNAATTACTTGNACCGCGCCGATTNANNGATCGATTTTTTTTTTTTTTTTTTTTTT
TTTTACAACAAGNCCAACACATATGCTTTATGGTTCTGTTTCAAAAACATGAAAACCCAG
GCCCTAGGATTCAAGTGTGTTGAGAGGCAGAAAGGATGGAGAAGTTGTTGGCGCCAGCA
TGGGGCAAGCAGCCAGACCTCAGGCCCTCACTCTAGGCTCCACGTGGCTGGGCTTGACT
TCTGGCCAAGGGCTGCTTTTCCCGCCTGCGGCCACCTGAGGCCAGACCTTGCCTGAGAA
AGGCCTGTGGTGGGGGGGAAGCTCAGGCAGAAGGAAGACGTGGCCAACGGCCATCCCTGA
GGAGGTAGTGAGCAGCTCCTGGTTCGGCAAGGGCGGTGGGTAGGAGCCAGGCCGAGGAGT
CTTAGGGTCCCCTCTCCACAGCTCTGGTGGGCCCCCTGCTCCCCTAGCCAAGTGGTTGCT
CACCTGCCTTCTATGCTCCCTCTGAAGCCAGCCCCTGGGAGAGAAACATCTGAAGGCAAG
AAGGAAAGAGAGCCCTGCCTAAGCTTCTCCTCCCTGCTTGGCCAAGTGGGAGAAGCAGC
TGAGGTCTTTGTGTAAGTGAAGGACGAGGAGCTGGAATGCCTACCAGCTCGGAGA
GGGCACTTGAGAGGGTCTATGAACAAATCTGTCTAAAAGCCACGTTTGAGCTAAAAGCAT
CAGTCCATCCCTCAGCCCAGCTCTGTGCGGGCCAAGAATCCAGAAGGCAGCAAGGCAGG
CCTATCTCCCCAGCTGGAGGTGNTGTGGAGCTGCTCTGCCTGAGTCTCAGATGCTGGA
ATTCTCTTGAAGAAGTCCGTCAGGGCTTTTCCGCACTCCACAGCCGACTTGGTCTCA
```

Restriction Sites:

NotI-NotI

ACCN:

NM_000116

Insert Size:

2000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_000116.2](#), [NP_000107.1](#)

RefSeq Size: 1904 bp

RefSeq ORF: 879 bp

Locus ID: 6901

UniProt ID: [Q16635](#)

Cytogenetics: Xq28

Domains: Acyltransferase

Protein Families: ES Cell Differentiation/IPS, Transmembrane

Gene Summary: This gene encodes a protein that is expressed at high levels in cardiac and skeletal muscle. Mutations in this gene have been associated with a number of clinical disorders including Barth syndrome, dilated cardiomyopathy (DCM), hypertrophic DCM, endocardial fibroelastosis, and left ventricular noncompaction (LVNC). Multiple transcript variants encoding different isoforms have been described. A long form and a short form of each of these isoforms is produced; the short form lacks a hydrophobic leader sequence and may exist as a cytoplasmic protein rather than being membrane-bound. Other alternatively spliced transcripts have been described but the full-length nature of all these transcripts is not known. [provided by RefSeq, Jul 2008]
 Transcript Variant: This variant (1) encodes the major isoform (1).