

## Product datasheet for **SC327349**

### ATBF1 (ZFHX3) (NM\_001164766) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | ATBF1 (ZFHX3) (NM_001164766) Human Untagged Clone  |
| Tag:                      | Tag Free   |
| Symbol:                   | ZFHX3  |
| Synonyms:                 | ATBF1; ATBT; C16orf47; ZFH-3; ZNF927   |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u>pCMV6-XL5</u>   |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_001164766, the custom clone sequence may differ by one or more nucleotides |

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AGTGTAGGAACGGACACCTTCAGATTG
    
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|-------------------------------|---|
| <b>Restriction Sites:</b>     | Please inquire  |
| <b>ACCN:</b>                  | NM_001164766  |
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>OTI Annotation:</b>        | 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.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <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> |
| <b>RefSeq:</b>                | <u><a href="#">NM_001164766.1</a></u> , <u><a href="#">NP_001158238.1</a></u>   |
| <b>RefSeq Size:</b>           | 12778 bp  |
| <b>RefSeq ORF:</b>            | 8370 bp   |
| <b>Locus ID:</b>              | 463   |
| <b>UniProt ID:</b>            | <u><a href="#">Q6ZP98</a></u>   |
| <b>Cytogenetics:</b>          | 16q22.2-q22.3   |
| <b>Protein Families:</b>      | Transcription Factors   |

**Gene Summary:**

This gene encodes a transcription factor with multiple homeodomains and zinc finger motifs, and regulates myogenic and neuronal differentiation. The encoded protein suppresses expression of the alpha-fetoprotein gene by binding to an AT-rich enhancer motif. The protein has also been shown to negatively regulate c-Myb, and transactivate the cell cycle inhibitor cyclin-dependent kinase inhibitor 1A (also known as p21CIP1). This gene is reported to function as a tumor suppressor in several cancers, and sequence variants of this gene are also associated with atrial fibrillation. Multiple transcript variants expressed from alternate promoters and encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (B) represents use of an alternate promoter and 5' UTR, lacks an alternate coding exon, and uses a downstream start codon, compared to variant A. The resulting isoform (B) has a shorter N-terminus, compared to isoform A. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.