

Product datasheet for **RG228714**

ATBF1 (ZFHX3) (NM_001164766) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATBF1 (ZFHX3) (NM_001164766) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFHX3
Synonyms:	ATBF1; ATBT; C16orf47; ZFH-3; ZNF927
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228714 representing NM_001164766 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTCGGGGGCGGGCAGCTGGTGTGACAGGAGCTGATGAACCTGGGCGAGAGCTTCATCCAGACCA
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CAGTGTAGCCTGGCCTTCAAGACCATTGAAAAGTTGCAGCTCCATTCTCAGTACCATGTGATCAGAGCTG
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 TGGTCTGACCAGTGTAGGAACGGACACCTTCAGATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228714 representing NM_001164766
 Red=Cloning site Green=Tags(s)

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 QKGLPEEEDLGGIFTRRCPSTDPPEEAIEDVEGPSETAADPEELAKDQEGGASSQAELKELTDSPATSK
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 SCSTSGVQPSMPTDDYSEESDSDLQKSDGPASVVEGPKDPCPKDSSLTSVGTDTFRL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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">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_001164766.2
RefSeq Size:	12778 bp
RefSeq ORF:	8370 bp
Locus ID:	463
UniProt ID:	Q6ZP98
Cytogenetics:	16q22.2-q22.3
Protein Families:	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]