

Product datasheet for **SC116424**

FOXO4 (NM_005938) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXO4 (NM_005938) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXO4
Synonyms:	AFX; AFX1; MLLT7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116424 sequence for NM_005938 edited (data generated by NextGen Sequencing)

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ATGGATCCGGGAATGAGAATTCAGCCACAGAGGCTGCCGCGATCATAGACCTAGATCCC
GACTTCGAACCCAGAGCCGTCCTGCACCTGGCCCCCTCCCGACCAGAGATC
GCTAACAGCCGTCAGAGCCGCGCCGAGGTGGAGCCAGATCTGGGGAAAAGGTACACAG
GAGGGCCGCTCAGAGCCGATCCTGTTGCCCTCTCGGCTCCCAGAGCCGGCCGGGGCCCC
CAGCCCCGAATCCTGGGGCTGTAAACAGTCTCCTCGAAGGGAGGCTCCCGCCGAATGCC
TGGGAAAATCAGTCATATGCAGAACTCATCAGCCAGGCCATTGAAAGCCCGCCGAGAAG
CGACTGACACTTGCCAGATCTACGAGTGGATGGTCCGTAAGTGTACCCTACTTCAAGGAC
AAGGGTGACAGCAACAGCTCAGCAGGATGGAAGAACTCGATCCGCCACAACCTGTCCCTG
CACAGCAAGTTCATCAAGGTTCAACAACGAGGCCACCGGAAAAGCTTTGGTGGATGCTG
AACCTGAGGGAGGCAAGAGCGGCAAAGCCCCCGCCGGCCGCTCCATGGATAGC
AGCAGCAAGTGTCTCCGGGGCCGAGTAAAGCCCCAAGAAGAAACCATCTGTGTGCCA
GCTCCACCCGAAGGTGCCACTCCAACGAGCCCTGTGGCCACTTTGCCAAGTGGTCAGGC
AGCCCTTGCTCTCGAAACCGTGAAGAAGCCGATATGTGGACCACCTTCCGTCCACGAAGC
AGTTCAAATGCCAGCAGTGTGACACCCGCTGTCCCCCTTGAGGCCAGAGTCTGAGGTG
CTGGCCGAGGAAAATACCAGCTTCAGTCAGCAGTTATGCAGGGGGTGTCCCTCCCACCTC
AATGAAGGTCTAGAGCTGTTAGATGGGCTCAATCTCACCTTTCCATTCCCTGTATCT
CGGAGTGGTCTCTCTGGCTTCTTTGCAGCATCCTGGGGTTACCGGCCCTTACACACC
TACAGCAGCTCCCTTTTCCAGCCAGCAGAGGGGCCCTGTGAGCAGGAGAAGGGTGTCTC
TCCAGCTCCCAGGCTCTGGAGGCCCTGTCACTCTGATACGCCACCACCCCTGCTGAC
GTCTCATGACCCAGGTAGATCCATTCTGTCCAGGCTCCGACTTTCTGTTGTGGGG
GGCTTCTTCCAGTAAGCTGGCCACGGGCGTGGCCCTGTGTCCCAAGCCCCATAGAG
GCTCCAGGCCCCAGCAGTCTGGTTCCACCCCTTCTATGATAGCACCCATCCAGTCATG
GCAAGTGCCCCATCCCAAGGCTCTGGGGACTCCTGTGCTCACACCCCTACTGAAGCT
GCAAGCCAAGACAGAATGCCTCAGGATCTAGATCTTGATATGATATGGAGAACCTGGAG
TGTGACATGGATAACATCATCAGTGACCTCATGGATGAGGGCGAGGGACTGGACTTCAAC
TTTGAGCCAGATCCCTGA
    
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Clone variation with respect to NM_005938.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005938 unedited
CCCCCCCCGTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG
CTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGAATTC
GGCAGCAGAGGTTGCAGAAAAAGTGTCTTCGCTCGGCAGAGGTTACAGGTGGCATCTCAG
AAAGAGCTTTGAGGCTACAGGCTGTAGTCGGGAAGGGGATCGGAGAACTGTGTGAAGGA
CAGCTTAGGGACTAGCGTCTGGGACTAGGGGGAAGTTCGCGACTTTCTGAAGACTGGCA
GGAATGTGCCCTCTGGCCCTCGATGCTTCCCCCTGAGGGGAGGCATCGTGAGGGACTGT
GGCAGGCTTCACTGAACGCTGAGCCGGGAGGTCCAACCTCCACGTATGGATCCGGGGAAT
GAGAATTCAGCCACAGAGGCTGCCGCGATCATAGACCTAGATCCCGACTTCGAACCCAG
AGCCGTCCCCGCTCCTGCACCTGGCCCCCTCCCGACCAGAGATCGTAACCAGCCGTCC
GAGCCGCCGAGGTGGAGCCAGATCTGGGGAAAAGGTACACACGGAGGGGCGCTCAGAG
CCGATCCTGTTGCCCTCTCGGCTCCCAGAGCCGGCCGGNGCCCCAGCCCGGAATCCTN
GGGGCTGTAACAGGTCTCGGAAGGGAGGCTCCCGCCGAATGCCTGGNGAAATCAGTCA
TATGCAGAACTCATCAGCCAGGCCATTGAAAGCGCCCCGAGAAGCGATTGACACTTGCC
CAGATCTACGAGTGGATGGTCCGTAAGTGTACCCTACTTCAAGGAACAAGGTGACAGNCAC
AGCTCANCAAGGATGGGAGAACTCGATCCGNCAACCTGTCCCTGCACACAAGTTCATCAA
GGTTACACCAGAGGCCAACGGCAAAGCTCTGGNTNATGTGAACCCTGAGGNAGGCAGA
GCGGCAAAGCCCCCCCCCGCCGGCG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005938 unedited CCCCTCGAAAAGNCATTTTTTTTCATTTTCATTGCATTTGNACACACTTGCCCCACTCCAAT CTAGCACATGATAACAATCTGGGTAGGCCAGGCGCTGACACAGGAAATGATGGGAACCCAC AGCAGGGGTGGGGGAGGGGACGATGCAAAGGGCACTGGGGGAAGGGCTGCTTTGGGGGCT GGGGTGGAGAAGGAGCCCCAGATGGCCTCCCTGGCAGGTGCTAGTAAACCTGATCCACAT CCCCCCATCCCTGCTCATTTCCCAGACCCTCAGCCAAGCTCCCAGCTCCCCCTTCCC TGTTCTCCCCTCCCCGCTGCCTGCTGCCACACACACTTCCACATAACCCCTGCAGTCAG GGAAGGGGAAGAAGGGCAGGGACAGCTGTCAGGGCCTTGAACAGGGAGGTCTCTGTACC TAACTTTACCATCTAAATCCTTCCCTCCTTCTTCTCTCCCCTCCCAGTCCCTTCCCT GGCCCCAAGCTAATTCCAGGCCTTCAATGTA CTCTCCACCATAGCACTAACCCATGCTG GGTATAGAAGAGTGTGGCTGCACCCTAACACCACACACTCCCAGGCACAAGTTGAAGGA ATGAGGGGACCTGGGTTAGCTTTTTTGTAGGGAACTCTAACCTATTTCTGCATAGACC TTTCTCTATACCTGGTCCGTAGGGGAGCTTCCCTGTGTTTACTATTACTCCCCACCTC TCCCCACTTCCCTGTGTCTCCTAATATTTATTGTCTGTAGTGTGTGTATCATGCTACTAT CACAAAGCCTTCAGATAGAATAAAAAGCATTCTGCCACCACTAGCACCTGCCATGGTT AAAAAATCTCTATATTTGAGTTTATATTTCTTTAAAAGTTATAAAAAGCCTTTCTGTTA TCTGCAGCCTTCTAAGGGTGATTTGGCCTGGCGAGCCACTCCAGTCTCAGACN
Restriction Sites:	NotI-NotI
ACCN:	NM_005938
Insert Size:	3500 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:	<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_005938.1 , NP_005929.1
RefSeq Size:	3171 bp

RefSeq ORF: 1506 bp

Locus ID: 4303

UniProt ID: [P98177](#)

Cytogenetics: Xq13.1

Domains: FH

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the O class of winged helix/forkhead transcription factor family. Proteins encoded by this class are regulated by factors involved in growth and differentiation indicating they play a role in these processes. A translocation involving this gene on chromosome X and the homolog of the Drosophila trithorax gene, encoding a DNA binding protein, located on chromosome 11 is associated with leukemia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1 also known as AFX alpha). 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.