

Product datasheet for **SC118890**

FOXO1 (NM_002015) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXO1 (NM_002015) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXO1
Synonyms:	FKH1; FKHR; FOXO1A
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002015 edited
ATGGCCGAGGCGCCTCAGGTGGTGGAGATCGACCCGACTTCGAGCCGCTGCCCCGGCCG
CGCTCGTGACCTGGCCGCTGCCAGGCCGGAGTTTAGCCAGTCCAACCTCGGCCACCTCC
AGCCCCGGCGCCGTGCGGCAGCGCGGCTGCCAACCCGACGCCGCGGGCGGCTGCCTCG
GCCTCGGTGCCGCTGTACAGCCGACTTCATGAGCAACTGAGCTTGCTGGAGGAGAGC
GAGGACTTCCCGCAGGCGCCCGGCTCCGTGGCGCGCGGTGGCGGCGGGCCGCCGCG
GCCGCCACCGGGGGCTGTGCGGGGACTTCCAGGGCCCGAGGGCGGCTGCCTGCACCCA
GCGCCACCGCAGCCCCCGCCGCGGGCCGCTGTGCGAGCACCCGCCGGTGCCCCCGCC
GCCGCTGGGCGCTCGCGGGGACGCCGCGCAAGAGCAGCTCGTCCCGCCGCAACGCTGG
GGCAACCTGTCTACGCCGACTCATCACCAAGGCCATCGAGAGCTCGGCGGAGAAGCGG
CTCAGCTGTGCGAGATCTACGAGTGGATGGTCAAGAGCGTGCCCTACTTCAAGGATAAG
GGTGACAGCAACAGCTCGGCGGGCTGGAAGAATTCAATTCGTGATAATCTGTCCCTACAC
AGCAAGTTCATTCGTGTGAGAATGAAGGAACTGGAAAAAGTTCTTGGTGGATGCTCAAT
CCAGAGGGTGGCAAGAGCGGAAATCTCCTAGGAGAAGAGCTGCATCCATGGACAACAAC
AGTAAATTTGCTAAGAGCCGAAGCCGAGCTGCCAAGAAGAAAGCATCTCTCCAGTCTGGC
CAGGAGGGTGTGGGGACAGCCCTGGATCACAGTTTTCCAAATGGCTGCAAGCCCTGGC
TCTCACAGCAATGATGACTTTGATAACTGGAGTACATTTCCGCCCTCGAACTAGCTCAAAT
GCTAGTACTATTAGTGGGAGACTCTACCCATTATGACCGAACAGGATGATCTTGGAGAA
GGGGATGTGCAATCTATGGTGTACCCGCCATCTGCCGCAAAGATGGCCTCTACTTTACCC
AGTCTGTCTGAGATAAGCAATCCCGAAAACATGGAAAATCTTTTGGATAATCTCAACCTT
CTCTCATACCAACATCATTAAGTGTTCGACCCAGTCTCACCTGGCACCATGATGCAG
CAGACGCCGTGCTACTCGTTTGCGCCACCAACACCAGTTTGAATTCACCCAGCCCAAAC
TACCAAAAATATACATATGGCCAATCCAGCATGAGCCCTTTGCCCCAGATGCCTATACAA
ACACTTCAGGACAATAAGTCGAGTTATGGAGGTATGAGTCAGTATAACTGTGCGCCTGGA
CTCTTGAAGGAGTTGCTGACTTCTGACTCTCCTCCCCATAATGACATTATGACACCAGTT
GATCCTGGGGTAGCCAGCCCAACAGCCGGTTCTGGCCAGAACGTCATGATGGGCCCT
AATTCGGTCATGTCAACCTATGGCAGCCAGGTATCTCATAACAAAATGATGAATCCCAGC
TCCCATACCCACCCTGGACATGCTCAGCAGACATCTGCAGTTAACGGGCGTCCCCTGCC
CACACGGTAAGCACCATGCCCCACACCTCGGGTATGAACCGCCTGACCCAAGTGAAGACA
CCTGTACAAGTGCCTCTGCCCCACCCATGCAGATGAGTGCCTGGGGGGCTACTCTCC
GTGAGCAGCTGCAATGGCTATGGCAGAATGGGCCTTCTCCACCAGGAGAAGCTCCAAGT
GACTTGGATGGCATGTTCAATTGAGCGCTTAGACTGTGACATGGAATCCATCATTCCGAAT
GACCTCATGGATGGAGATACATTGGATTTAACTTTGACAATGTGTTGCCCAACCAAAGC
TTCCACACAGTGTCAAGACAACGACACATAGCTGGGTGTGAGGCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002015 unedited
 CTATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGTCGCAGCA
 GCCGCTGCCGAGCCGCCACATTAACAGGCAGCAGCGCAGCGGGCGCCGCTGGGGAG
 AGCAAGCGGCCCGCGCGCTCCGTCCGTCTTCCGTCCGCGGCCCTGTAGCTGGAGCGCG
 GCGCAGGCTCTGCCCCGGCCGGCGGCTCTGGCCGGCCGTCCAGTCCGTGCGGCGGACCC
 CGAGGAGCCTCGATGTGGATGGCCCCGGAAGTTAAGTTCTGGGCTCGCGCTTCCACTCC
 GCCGCGCTTCCCTCCAGTTTCCGTCCGCTCGCGCACCCGGCTTGGTTCCCCAAATCTC
 GGACCGTCCCTTCGCGCCCCCTCCCGTCCGCCCCAGTGTGCGTTCTCCCCCTTTGG
 CTCTCCTGCGGCTGGGGGAGGGCGGGGTACCATGGCCGAGGCGCCTCAGGTGGTGGA
 GATCGACCCGGACTTCGAGCCGCTGCCCGGCCGCGCTCGTGCACCTGGCCGCTGCCAG
 GCCGGAGTTTAGCCAGTCCAACCTCGCCACCTCCAGCCCGCGCCGTGGGCAGCGCGGC
 TGCCAACCCGACGCGCGGGGGCTGCCCTCGGCTCGGCTGCCGCTGTAGCGCCGA
 CTTTCATGAGCAACTGAGCTTGCTGGAGGAGAGCGAGGACTTNNCCGAGCGCCCGGCTC
 CGTGGCGCGGGGGGGGCGGCGCCGCGCCCGCCGCGCCGACCGGNGGGGCTGTGCGG
 GGACTTCCAGGCCCGGGAGGGCGGGCTGGCTGCACCAAGCCACCGAAGCCCCCGCGNC
 CGGGCCGCTGTGCACAACCCGCGTTCGCCCGCGCCGCTGGGCCCTTCCGGGCAAC
 CGCGCAGTACCATTTGTCCCGCGCACACGGTGGGGGAACCTGTCTACGCCGACTTATACC
 AAGCCACGAAGCTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002015 unedited
 TAGGAAACTAAAGGGCAGTTGTGTGAAGNACTCTTTGGACTGCTTCTCTCAGTTCCTGCT
 GTCAGACAATCTGAAGTACTTTTAAAGTGAACCTGCTACTAACCTCAGCCTGACACCC
 AGCTATGTGTCGTTGTCTTGACACTGTGTGGGAAGCTTTGGTTGGCAACACATTGTCAA
 AGTAAAAATCCAATGTATCTCCATCCATGAGGTCAATCCGAATGATGGATTCCATGTCAC
 AGTCTAAGCGCTCAATGAACATGCCATCCAAGTCACTTGGGAGCTTCTCCTGGTGGAGAA
 GGCCCATCTGCCATAGCCATTGCAGCTGCTCACGGAGGAGTAGCCCCCAGGGCACTCA
 TCTGCATGGGGTGGGGCAGAGGCACTTGTACAGGTGTCTTCACTTGGGTGAGCGGTTCA
 TACCCGAGGTGTGGGCATGGTGTACCGTGTGGGGCAGGGGACGCCCGTTAACTGCAG
 ATGTCTGCTGAGCATGTCCAGGGTGGGTATGGGAGCTGGGATTCATCATTTTGTATGAG
 ATACCTGGCTGCCATAGGTTGACATGACCGAATTAGGGCCATCATGACGTTCTGGCCCA
 GAACCCGCTGTTGGGCTGGGCTACCCAGGATCAACTGGTGTATAATGTCATTATGGG
 GAGGAGAGTCAGAAGTCAGCAACTCCTTCAAAGAGTCCAGCGCACAGTTATACTGACTCA
 TACCTNCATACCTCGACTTATTGTCTGAAATGTTTGTATAGGCATCTGGGGCAAGGGC
 TCATGCTGNATNGCCATATGTATATTTTTGGTAGTTTGGGCTGGGTGAATTCAAACTGG
 TGTTTGTGGCGCAAACGATTACACGGCTCTGCTGATCAATGTGCCAGTGAGGACTGGG
 CTGAACAGTTATGATTTGTGATGACACAAGTTGAGATTTCAAAGATTTCTGTTTCTGG
 ATTGCTATTTACAAGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_002015

Insert Size:

2600 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](#)

RefSeq: [NM_002015.2](#), [NP_002006.2](#)

RefSeq Size: 5723 bp

RefSeq ORF: 1968 bp

Locus ID: 2308

UniProt ID: [Q12778](#)

Domains: FH

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Insulin signaling pathway, Pathways in cancer, Prostate cancer

Gene Summary: This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq, Jul 2008]