

Product datasheet for **SC119227**

FOXO3 (NM_001455) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXO3 (NM_001455) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXO3
Synonyms:	AF6q21; FKHL1; FKHL1P2; FOXO2; FOXO3A
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 sequence for NM_001455 edited
CGGAGCCTTCGCGGCGTCCACGTCCCTCCCCGCTGCACCCCGCCCGGCGCGAGAGGAG
AGCGCGAGAGCCCCAGCCGCGGGCGGGCGGGCGGAAGATGGCAGAGGCACCGGCTTCC
CCGGCCCCGCTCTCTCCGCTCGAAGTGGAGCTGGACCCGGAGTTCGAGCCCCAGAGCCGT
CCGCGATCCTGTACGTGGCCCCGCAAAGGCCGGAGCTCCAAGCGAGCCCTGCCAAGCCC
TCCGGGGGAGACGGCCGCCGACTCCATGATCCCCGAGGAGGAGACGATGAAGACGACGAG
GACGGCGGGGACGGCCCGGCTCGGCCATGGCGATCGGCGGGCGGGCGGGGAGCGGCACG
CTGGGCTCCGGGCTGCTCCTTGAGGACTCGGCCCGGGTGCTGGCACCCGAGGGCAAGAC
CCCGGGTCTGGGCCAGCCACCGCGGGCGGGCTGAGCGGGGGTACACAGGCGTCTGTG
CAGCCTCAGCAACCGCTGCCACCGCCGAGCCGGGGCGGCTGGGGGCTCCGGGAGCCG
AGGAAATGTTTCGTCGCGGCGGAACGCCTGGGAAACCTGTCTACGCGGACCTGATCACC
CGCGCCATCGAGAGCTCCCCGACAAACGGCTCACTCTGTCCCAGATCTACGAGTGGATG
GTGCGTTGCGTGCCCTACTTCAAGGATAAGGGCGACAGCAACAGCTCTGCCGGTGGAA
AACTCCATCCGGACAACCTGTCACTGCATAGTCGATTATGCGGGTCCAGAATGAGGGA
ACTGGCAAGAGCTCTTGGTGGATCATCAACCCTGATGGGGGGAAGAGCGAAAAGCCCC
CGGCGGGGGCTGTCTCCATGGACAATAGCAACAAGTATACCAAGAGCCGTGGCCGCGCA
GCCAAGAAGAAGGCAGCCCTGCAGACAGCCCCGAATCAGCTGAGCAGATCCCTCCCAG
CTCTCAAAGTGGCCTGGCAGCCCCACGTACGCAGCAGTATGAGCTGGATGCGTGGACG
GACTTCCGTTACGCACCAATTCTAACGCCAGCACAGTCACTGAGTGGCCGCTGTGCGCCATC
ATGGCAAGCACAGAGTTGGATGAAGTCCAGGACGATGATGCGCCTCTCTCGCCATGCTC
TACAGCAGCTCAGCCAGCCTGTCACTTCAAGTAAAGCAAGCCGTCACGGTGGAACTGCCA
CGGCTGACTGATATGGCAGGCACCATGAATCTGAATGATGGGCTGACTGAAAACCTCATG
GACGACCTGCTGGATAACATCACGCTCCCGCCATCCCAGCCATCGCCACTGGGGGACTC
ATGCAGCGGAGCTCTAGCTTCCCGTATACCACCAAGGGCTCGGGCCTGGGCTCCCAACC
AGCTCCTTTAACAGCACGGTGTTTCGGACCTTCTCTGAACTCCCTACGCCAGTCTCCC
ATGCAGACCATCCAAGAGAACAAGCCAGCTACCTTCTCTTCCATGTCACACTATGGTAAC
CAGACACTCCAGGACCTGCTCACTTCGGACTCACTTAGCCACAGCGATGTCATGATGACA
CAGTCGGACCCCTTGATGTCTCAGGCCAGCACCCTGTGTCTGCCAGAATTCCCGCCGG
AACGTGATGCTTCGCAATGATCCGATGATGTCCTTTGCTGCCAGCCTAACCCAGGGAAGT
TTGGTCAATCAGAACTTGCTCCACCACCAGCACCAAAACCAGGGCGCTCTTGGTGGCAGC
CGTGCCTTGTCGAATTCTGTGAGCAACATGGGCTTGAGTGAAGTCCAGCAGCCTTGGGTCA
GCCAAACACCAGCAGCAGTCTCCTGTGAGCCAGTCTATGCAAACCTCTCGGACTCTCTC
TCAAGGCTCCTCCTTGTACTCAACTAGTGCAAACCTGCCCGTATGGGCCATGAGAAGTTC
CCCAGCGACTTGGACCTGGACATGTTCAATGGGAGCTTGGAAATGTGACATGGAGTCCATT
ATCCGTAGTGAATCATGGATGCTGATGGGTTGGATTTTAACTTTGATTCCTCATCTCC
ACACAGAATGTTGTTGGTTTGAACGTGGGGAACCTCACTGGTGTAAAGCAGGCCTCATCT
CAGAGCTGGGTGCCAGGCTGAAGGATCACTGAGGAAGGGGAAGTGGGCAAAGCAGACCCT
CAAAGTACACAAGACCTACAGAGAAAACCTTTGCCAAATCTGCTCTCAGCAAGTGGAC
A
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_001455 unedited
CGGGGCCCCACCTCCCCCTTCCCCCGGTTTCAGAATTGTNATACAACCTCATATAGGCGG
CCGCGNAATTCGCACGAGGGGAGTGGCGGCAGCGGGCGAGGACTCGCCGAGGACGGGGCT
CCGGCCCCGGGATAACCAACTCTCCTTCTCTTTTGGTGCTTCCCCAGGCGGGCGGCGG
CGGCGCCCCGGGAGCCGGAGCCTTCGCGGCGTCCACGTCCCTCCCCGCTGCACCCCGCC
CGGCGCGAGAGGAGCGGAGAGCCCCAGCCGCGGGCGGGCGGGCGGCGAAGATGGCAG
AGGCACCCGGCTTCCCCGGCCCCGCTCTCTCCGCTCGAAGTGGAGCTGGACCCGGAGTTCC
AGCCCCAGAGCCGTCCGCGATCCTGTACGTGGCCCTGCAAAGGCCGGAGCTCCAAGCGA
GCCCTGCCAAGCCCTCGGGGAGACGGCCGCGACTCCATGATCCCCGAGGAGGAGGACG
ATGAAGACGACGAGGACGGCGNGGACGGGCCGCTCGGCCATGGCGATCGGCGGCGGCG
GCGGGAGCGGCACGCTGGGCTCCGGGCTGCTCCTTGAGGACTCGGCCCGGGTGTGGCAC
CCCGGAGGCAAGACCCCGGTCTGGGCCAGCCACCGCNGCGGGCGGGCTGAGCGGGGTAC
ACANGCGTGTGCAGCCTCAGCACCGCTGCCACCGCCACCAGGGGGCGGCTGGGGG
TTCCGGCAGCCGAGGAAAGTTTCGTCGCCGCGGAAACGCCTGGGAAAACGTNCTACGG
GACCTGATCCCCGCGCCATCCAGAGCTCCCCGGGACAACCGGTNACTCTGGCCAAATC
TACCAAGGGATGTGGCCGTTGCGTGCCTCAATTAAAGGAATAAGGGCAACAGAAACAGATT
TGCCGGGTGGAAGGACTCCATTCGGAACAACCTGAACTGAATTAACCAATCCTGCCGGGT
CCCAAAGAAGGAACTGGCAAAAGCCCTTGGGGAGACATAACCCCTGAGGG

3' Read Nucleotide Sequence: >OriGene 3' read for NM_001455 unedited
CTAGAGGCAGGGCGTCACAGGGAATGCCACCCGGACATCTGTGGCAGTAAAAGCTCTGAC
CGAGGCCCAATCTAAACCCAAGCCTCCAAAAATCCTCCTCACTACTTCTGGAATAGCT
CACCAGACAACGAAACCCCTTTGGCGACGTTTGAAGAAAGAAAGAAAGCAGCCCTGGTGCC
TTTACTGAAAAGAACAGGTCCGAGTTAGTAACCGGCAGACCAACACTGTTTACATTACCT
GAGGACCTGACAGGAAATCACAGGCCCTACTGATCTGGCACCCGTAGACTTGGCGCTGG
GGTCCCGTCCAAAGATCACCCCTGACTCAAACCCGAAACACACTGGGCCGGACCCCTGTGC
TCCACTCCTTTTGCCTATGCACGGTTCTGGCCTGGACGGGTGCACATAGCAAACAATTGT
GCCATTGTTCAATTTTTAGAAAAGGATAATTCCCTCCAAACAAAAAAGAAAGAAATC
CCCCCTTAGTTGATGCAATTTGTGAGCTTATGGAGTTCATGCGCTCAAAGCTTGTGAT
GCTCGAACCCGGAATGGTAACCTGGCACAACATTTCTTTCTGTTTTTAAATTTGCTAGGG
GAAGGACGGTTAACATTTTAAACAGAAAAATACCGCAGTTATGCGTGTGAAAAACTCAGAA
GCCCAAGGAAAAACAACGCCGGAACAACGCTTAAACGTCCCATAAACCATCGCAATTTT
AAAACACCACAGAATGGCCGACGGGGGCTCACGGTGGGCTCTGAAATGAGGTGGGTGGT
CCCAAGGGTCTGTCTCCACTGGCAGGCGGCTCACCCCGGTCAAGG

Restriction Sites: NotI-NotI

ACCN: NM_001455

Insert Size: 3250 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](#)

OTI Annotation: TrueClone.

RefSeq: [NM_001455.2](#), [NP_001446.1](#)

RefSeq Size: 3338 bp

RefSeq ORF: 2022 bp

Locus ID: 2309

UniProt ID: [O43524](#)

Domains: FH

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Chemokine signaling pathway, Endometrial cancer, Neurotrophin signaling pathway, Non-small cell lung cancer

Gene Summary: This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) differs in the 5' end and represents the longer transcript compared to variant 2. Both variants encode the same protein.