

## Product datasheet for **SC328743**

### FOXO4 (NM\_001170931) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FOXO4 (NM_001170931) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXO4
Synonyms:	AFX; AFX1; MLLT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328743 representing NM_001170931. Blue=Insert sequence Red=Cloning site Green=Tag(s)

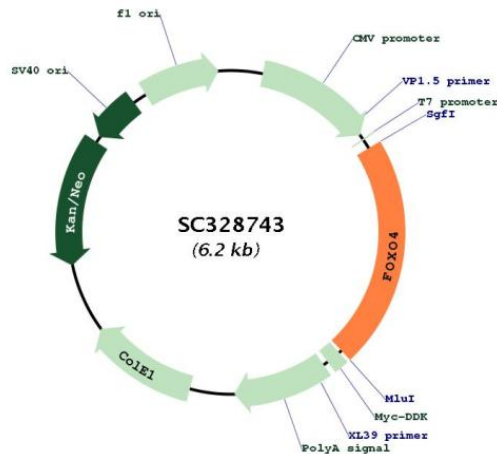
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGATCCGGGAATGAGAATTCAGCCACAGAGGCTGCCGCGATCATAGACCTAGATCCCGACTTCGAA
CCCCAGAGCCGTCCTGACCTGGCCCCCTCCCCGACCAGAGATCGCTAACCGCCGTCGGAG
CCGCCCCGAGGTGGAGCCAGATCTGGGGAAAAGGCCATTGAAAGCGCCCCGGAGAAGCGACTGACACTT
GCCAGATCTACGAGTGGATGGTCCGACTGTACCCTACTTCAAGGACAAGGGTGACAGCAACAGCTCA
GCAGGATGGAAGAACTCGATCCGCCACAACCTGTCCCTGCACAGCAAGTTCATCAAGTTACAACGAG
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TCTGTGCTGCCAGCTCCACCCGAAGGTGCCACTCCAACGAGCCCTGTCCGCCACTTTGCCAAGTGGTCA
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AATGCCAGCAGTGTACGACCCGGCTGTCCCCCTTGAGGCCAGAGTCTGAGGTGCTGGCGGAGGAAATA
CCAGCTTCAGTCAGCAGTTATGCAGGGGTGTCCCTCCCACCTCAATGAAGGTCTAGAGCTGTTAGAT
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CCTGGGGTTACCGGCCCTTACACACCTACAGCAGCTCCCTTTTCAGCCCAGCAGAGGGGCCCTGTCA
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CCTGCTGACGTCTCATGACCCAGGTAGATCCCATTTCTGTCCCAGGCTCCGACTCTTCTGTTGCTGGGG
GGGCTTCTTCTCCAGTAAGCTGGCCACGGGCGTCGGCCTGTGTCCCAAGCCCCTAGAGGCTCCAGGC
CCCAGCAGTCTGGTTCCACCCCTTTCTATGATAGCACCTCCAGTCATGGCAAGTGCCCCCATCCCC
AAGGCTCTGGGACTCCTGTGCTCACACCCCTACTGAAGCTGCAAGCCAAGACAGAATGCCTCAGGAT
CTAGATCTTGATATGATATGGAGAACCTGGAGTGTGACATGGATAACATCATCAGTGACCTCATGGAT
GAGGGCGAGGGACTGGACTTCAACTTTGAGCCAGATCCC TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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**Restriction Sites:** SgfI-MluI

**Plasmid Map:**



**ACCN:** NM\_001170931

**Insert Size:** 1353 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** 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.

**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:**

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\\_001170931.1](#)

**RefSeq Size:** 3200 bp

**RefSeq ORF:** 1353 bp

**Locus ID:** 4303

**UniProt ID:** [P98177](#)

**Cytogenetics:** Xq13.1

**Protein Families:** Transcription Factors

**MW:** 47.9 kDa

**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 (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. This results in a shorter protein (isoform 2 also known as isoform zeta) compared to isoform 1. 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.