

## Product datasheet for **MC217164**

### **Foxo4 (NM\_018789) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Foxo4 (NM_018789) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Foxo4
Synonyms:	afx; Afxh; Mllt7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217164 representing NM\_018789  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGATCCAGAGAATAAGAAGTCAGCCACAGGGGCTGCCGCGATCCTAGACCTCGATCCCGACTTCGAAC  
CCCAGAGCCGTCCGCGATCCTGCACCTGGCCCTTCTCGACCAGACCTCGCTACGGAGCCACACGAACC  
GTCCGAGGTGGAGCCAGTCTGGGACAGAAGGTACCCACGGAGGGACACTCCGAACCGATCCTGTTGCC  
TCTCGGCTCCCAGAGCCGGCAGGGGGCCCCAGCCGGAATCCTGGGGGTGTAACAGGTCTCGGAAGG  
GAGGCTCCCGCCGGAATGCCTGGGAAAATCAGTCATATGCAGAATCATCAGCCAGGCCATTGAAAGCGC  
CCCGGAGAAGCGGCTGACACTCGCCAGATCTACGAATGGATGGTCCGCACGGTGCCTACTTCAAGGAC  
AAGGGTGACAGCAACAGCTCGGCAGGATGGAAGAACTCCATCCGTACAACCTGCTTGCACAGCAAGT  
TCATCAAGGTTACAACGAGGCCACTGGCAAGAGCTCTTGGTGGATGCTGAACCCCGATGGCGGCAAGGG  
TGGCAAGGCACCCCGCCGAGGGCTGCCATCCATGGATAGCAGCAGCAAGCTGCTCCGGGGCCGAGCAAA  
GGCCCCAAGAAGAAGCCGTCTGTCTGCCAGCTCCACCGAAGGTGCCACGCCAAGGAGCCCTCTGGGCC  
ACTTTGCCAAGTGGTCAAGCAGCCCTTGTCTCGAAATCGAGAAGAAGCTGATGTGTGGACCACTTCCG  
TCCACGAAGCAGTTCAAATGCTAGCACCCGTGACACCCGGCTGTCCGCAATGAGGCCGGAGTCTGAAGTG  
CTAGCAGAAGAGGAAATGCCAGCCTCGGCCAGCAGCTATGCAGGGGGGTCCCTCCCACGCTCAGTGAAG  
ATCTAGAGCTACTGGATGGGCTCAATCTCGCATCTCCCCATTCTTGGTCTCTAGGAGCGGTCTCTCCGG  
CTTCTCTTTGCAGCATCCTGGGCTTGTGGCCCTTACATAGCTATGGTGCCTCCCTCTTTGGCCCAATA  
GATGGGCTTTGTGAGCAGGAGAAGGGTGTCTCAAGTCCCAGTCTCTAGAGGCTCTGCTCACCTCTG  
ATACACCACCTCCTGCTGATGTCTCATGACCCAGGTAGATCCTATCCTGTCTCAGGCTCCTACACT  
TCTGTTACTGGGAGGAATGCCTTCTCTAGCAAGCTGGGCACAGGAGTCAGCCTGTGTCTACGCCGCTA  
GAGGGTCTGGTCCCAGCAACCTGGTCCCCAACCTTTCTGTGATGGCACCACCCAGTCATGGCAGGCG  
CTCCCATCCTAAGTCTGGGAACCCCTGTGCTCGCATCTCCTACTGAAGATCCAGCCATGACAGAAT  
GCCTCAGGATCTGGATCTTGATATGTATATGGAGAACCCTGGAGTGCACATGGATAACATCATCAGTGAC  
CTCATGGATGGTGGGACTGGACTTCAACTTTGAGCCAGATCCCTGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_018789

**Insert Size:** 1518 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).

**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\\_018789.2](#), [NP\\_061259.1](#)

**RefSeq Size:** 3162 bp

**RefSeq ORF:** 1518 bp

**Locus ID:** 54601

**UniProt ID:** [Q9WVH3](#)

**Cytogenetics:** X 43.89 cM

**Gene Summary:** Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle. Involved in increased proteasome activity in embryonic stem cells (ESCs) by activating expression of PSMD11 in ESCs, leading to enhanced assembly of the 26S proteasome, followed by higher proteasome activity (By similarity). Represses smooth muscle cell differentiation by inhibiting the transcriptional coactivator activity of myocardin.[UniProtKB/Swiss-Prot Function]