

Product datasheet for **RG213185**

FOXO4 (NM_005938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXO4 (NM_005938) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXO4
Synonyms:	AFX; AFX1; MLLT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213185 representing NM_005938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATCCGGGAATGAGAATTCAGCCACAGAGGCTGCCGCGATCATAGACCTAGATCCCGACTTCGAAC
 CCCAGAGCCGTCCCCGCTCCTGCACCTGGCCCCCTCCCGGACCAGAGATCGCTAACCCAGCCGTCCGAGCC
 GCCCGAGGTGGAGCCAGATCTGGGGGAAAAGGTACACACGAGGGGGCGCTCAGAGCCGATCCTGTTGCC
 TCTCGGCTCCCAGAGCCGGCCGGGGCCCCAGCCGGAATCCTGGGGGTGTAACAGGTCTCGGAAGG
 GAGGCTCCCGCCGGAATGCCTGGGGAAATCAGTCATATGCAGAATCATCAGCCAGGCCATTGAAAGCGC
 CCCGGAGAAGCGACTGACACTTGCCAGATCTACGAGTGGATGGTCCGTAATGTACCTACTTCAAGGAC
 AAGGGTGACAGCAACAGCTCAGCAGGATGGAAGAACTCGATCCGCCACAACCTGTCCCTGCACAGCAAGT
 TCATCAAGGTTACAACGAGGCCACCGGAAAAGCTCTTGGTGGATGCTGAACCTGAGGGAGGCAAGAG
 CGGCAAAGCCCCCGCCCGGGCCGCCTCCATGGATAGCAGCAGCAAGCTGCTCCGGGGCCGAGTAAA
 GCCCCCAAGAAGAAACATCTGTGCTGCCAGCTCCACCCGAAGGTGCCACTCCAAGGAGCCCTGTGCGCC
 ACTTTGCCAAGTGGTCAGGCAGCCCTTGCTCTCGAAACCGTGAAGAAGCCGATATGTGGACCACCTCCG
 TCCACGAAGCAGTTCAAATGCCAGCAGTGTGAGCAGCCGGCTGTCCCCCTTGAGGCCAGAGTCTGAGGTG
 CTGGCGGAGGAAATACCAGCTTCAGTCAGCAGTTATGCAGGGGTGTCCCTCCCACCTCAATGAAGGTC
 TAGAGCTGTTAGATGGGCTCAATCTCACCTTCCCATCCCTGTATCTCGGAGTGGTCTCTCTGGCTT
 CTCTTTGAGCATCCTGGGGTACCGGCCCTTACACACCTACAGCAGTCCCTTTTCAGCCAGCAGAG
 GGGCCCCGTGTCAGCAGGAGAAGGTGCTTCTCCAGCTCCCAGGCTCTGGAGGCCCTGTCACCTCTGATA
 GCCCACCCCTGCTGACGTCTCATGACCCAGGTAGATCCCATCTGTCCAGGCTCCGACTCTTCT
 GTTGCTGGGGGGCTTCTTCTCCAGTAAGCTGGCCACGGCGTCGGCCTGTGTCCCAAGCCCCCTAGAG
 GCTCCAGGCCCCAGCAGTCTGGTCCACCCCTTCTATGATAGCACCCCTCCAGTCATGGCAAGTGCCC
 CCATCCCCAAGGCTCTGGGGACTCTGTGCTCACACCCCTACTGAAGCTGCAAGCCAAGACAGAATGCC
 TCAGGATCTAGATCTTGATATGTATATGGAGAACCTGGAGTGTGACATGGATAACATCATCAGTGACCTC
 ATGGATGAGGGCGAGGGACTGGACTTCACTTTGAGCCAGATCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213185 representing NM_005938
 Red=Cloning site Green=Tags(s)

MDPGNENSATEAAAIIDLDPDFEPQSRPRRSTWPLRPEIANQPSEPPEVEPDLGEKVHTEGRSEPILLP
 SRLPEPAGGPQPGILGAVTGPRKGGSRRAWGNQSYAELISQAIESAPEKRLTLAQIYEWVVRTVPYFKD
 KGDSNSSAGWKNSIRHNLHLKSKFIKVHNEATGKSSWMLNPEGGKSGKAPRRRAASMDSSKLLRGRSK
 APKKKPSVLPAPPEGATPTSPVGHFAKWSGSPCSRNRREADMWTFRPRSSSNASSVSTRLSPLRPESEV
 LAEEIPASVSSYAGGVPPTLNEGLELLDGLNLTSSHLLSRSGLSGFSLQHPGVTGPHLYSSSLFSPA
 GPLSAGEGCFSSSQALEALLTSDTPPPADVLMTQVDPILSQAPTLGGLPSSSKLATGVGLCPKPLE
 APGPSSLVPTLSMIAPPPVMASAPIPKALGTPVLPPTTEAASQDRMPQDLDLDMYMNLECDMDNIISDL
 MDEGEGLDFNFEPDP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005938

ORF Size: 1515 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

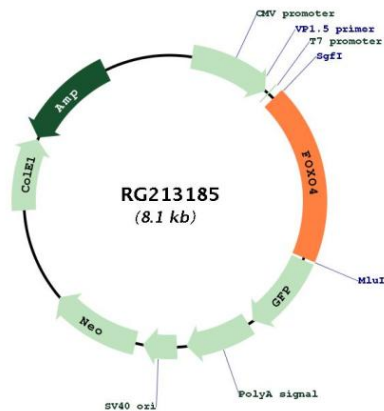
Reconstitution Method:

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_005938.4](#)

RefSeq Size:	3354 bp
RefSeq ORF:	1518 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]

Product images:



Circular map for RG213185