

## Product datasheet for **RG202894**

### **FOXO3 (NM\_201559) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FOXO3 (NM_201559) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXO3
Synonyms:	AF6q21; FKHL1; FKHL1P2; FOXO2; FOXO3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG202894 representing NM\_201559  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAGAGGCACCGGCTCCCCGGCCCGCTCTCTCCGCTCGAAGTGGAGCTGGACCCGGAGTTTCGAGC  
CCCAGAGCCGTCCGCGATCCTGTACGTGGCCCTGCAAAGGCCGGAGCTCCAAGCGAGCCCTGCCAAGCC  
CTCGGGGAGACGGCCGCGACTCCATGATCCCGAGGAGGAGACGATGAAGACGACGAGGACGGCGGG  
GGACGGGCGGCTCGGCCATGGCGATCGGCGGGCGGGGAGCGGCACGCTGGGCTCCGGGCTGCTCC  
TTGAGGACTCGGCCCGGTGCTGGCACCCGGAGGGCAAGACCCCGGGTCTGGCCAGCCACCGGGCGGG  
CGGGCTGAGCGGGGTACACAGGCGCTGCTGCAGCCTCAGCAACCGCTGCCACCGCCGACGGGGGGCG  
GCTGGGGCTCCGGCAGCCGAGGAAATGTTTCGTCGCGGCGAACGCCTGGGAAACCTGTCTACGCGG  
ACCTGATCACCCGCGCCATCGAGAGCTCCCGGACAAACGGCTCACTCTGTCCAGATCTACGAGTGGAT  
GGTGCCTTGCCTACTTCAAGGATAAGGGCGACAGCAACAGCTCTGCCGGTGGAAAGAACTCCATC  
CGGCACAACCTGTCACTGCATAGTCGATTATGCGGGTCCAGAATGAGGGAACTGGCAAGAGCTCTTGGT  
GGATCATCAACCCTGATGGGGGGAAGAGCGGAAAAGCCCCCGGGCGGGCTGTCTCCATGGACAATAG  
CAACAAGTATACCAAGAGCCGTGGCCGCGCAGCCAAGAAGAAGGCAGCCCTGCAGACAGCCCCGAATCA  
GCTGACGACAGTCCCTCCAGCTCTCCAAGTGGCTGGCAGCCCCACGTACGCAGCAGTGTAGCTGG  
ATGCGTGGACGGACTTCCGTTACGCACCAATTCTAACGCCAGCACAGTCACTGGCCGCCTGTGCCCCAT  
CATGGCAAGCACAGATTGGATGAAGTCCAGGACGATGATGCGCCTCTCTCGCCATGCTCTACAGCAGC  
TCAGCCAGCCTGTCACCTTCAGTAAGCAAGCCGTGCACGGTGGAACTGCCACGGCTGACTGATATGGCAG  
GCACCATGAATCTGAATGATGGGCTGACTGAAAACCTCATGGACGACCTGCTGGATAACATCAGCTCCC  
GCCATCCAGCCATCGCCCACTGGGGGACTCATGCAGCGGAGCTCTAGCTTCCCGTATACCAAGGGC  
TCGGGCTGGGCTCCCAACCAGCTCCTTAAACAGCACGGTGTTCGGACCTTCATCTGAACTCCCTAC  
GCCAGTCTCCATGCAGACCATCCAAGAGAACAAGCCAGCTACCTTCTCTTCCATGTCACACTATGGTAA  
CCAGACACTCCAGGACCTGCTCACTTCGGACTCACTTAGCCACAGCGATGTCATGATGACACAGTCGGAC  
CCCTTGATGTCTCAGGCCAGCACCGCTGTGTCTGCCAGAATTCCCGCCGGAACGTGATGCTTCGCAATG  
ATCCGATGATGTCCTTTGCTGCCAGCCTAACCAGGGAAGTTGGTCAATCAGAACTTGCTCCACCACCA  
GCACAAACCCAGGGCGCTTTGGTGGCAGCCGTGCCTTGTGCAATTCTGTGAGCAACATGGGCTTGAGT  
GAGTCCAGCAGCCTTGGGTCAGCCAACACCAGCAGCAGTCTCCTGTGAGCCAGTCTATGCAAACCTCT  
CGGACTCTCTCAGGCTCCTCCTTGTACTCAACTAGTGCAAACCTGCCGTCATGGGCCATGAGAAGTT  
CCCCAGGACTTGACCTGGACATGTTCAATGGGAGCTTGGAAATGTGACATGGAGTCCATTATCCGTAGT  
GAACTCATGGATGCTGATGGGTTGGATTTAACTTTGATTCCCTCATCTCCACACAGAATGTTGTTGGTT  
TGAACGTGGGAACTTCACTGGTGTAAAGCAGGCTCATCTCAGAGCTGGGTGCCAGGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG202894 representing NM\_201559  
Red=Cloning site Green=Tags(s)

```

MAEAPASPAPLSPLEVLDPFEPQSRPRRSTWPLQRPELQASPAKPSGETAADSMIPEEEDDEDDEGG
GRAGSAMAIGGGGGSGTLGSGLLLED SARV LAPGGQDPGSGPATAAGGLSGGTQALLQPQQPLPPPQPGA
AGGSGQPRKCSSRRNAWGNLSYADLITRAIESSPDKRLTLSQIYEWVRCVPYFKDKGDSNSSAGWKNSI
RHNL SLHSRFRMRVQNEGTGKSSWWIINPDGGKSGKAPRRRAVSMDNSNKYTKSRGRAAKKKAALQTAPES
ADDSPSQLSKWPGSPTSRSDELDAWTFRSTRNSNASTVSGRLSPIMASTELDEVQDDAPLSPMLYSS
SASLSPSVSKPCTVELPRLTDMAGTMNLDGLTENLMDLLDNITLPPSQPSPTGGLMQRSSSFYTTKG
SGLGSPTSSFNSTVFGPSSLNSLRQSPMQTIQENKPATFSSMSHYGNQLQDLLTSDSLSHSDVMMTQSD
PLMSQASTAVSAQNSRRNVMLRNDPMMF AAQPNQGS LVNQLLHHQHQTQ GALGGSRALSNSVSNMGLS
ESSSLGSAKHQQSPVQSMTLSDSLSGSSLYSTANL PVMGHEKFP SLDLDMFNGSLECDMESIIRS
ELMDADGLDFNFDLSLSTQNVVGLNVGNFTGAKQASSQSWVPG
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_201559

**ORF Size:** 2019 bp

**OTI Disclaimer:** 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_201559.3](#)

**RefSeq Size:** 3311 bp

**RefSeq ORF:** 2022 bp

**Locus ID:** 2309

**UniProt ID:** [O43524](#)

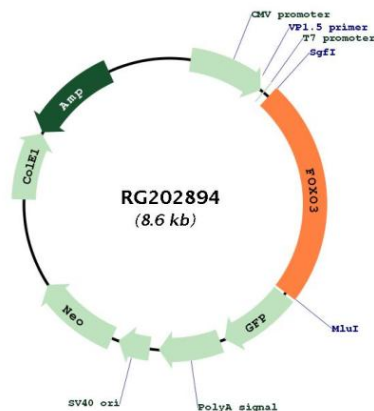
**Cytogenetics:** 6q21

**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]

### Product images:



Circular map for RG202894