

## Product datasheet for **RG216871**

### **FOXN4 (NM\_213596) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FOXN4 (NM_213596) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216871 representing NM\_213596  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATAGAAAGTGACACCTCATCCATAATGTCAGGAATTATTCGAAACTCAGGGCAAATCACCACCCCT  
 CTCACAGGAATACAGGCTTCTAGCCACCACCAGCGATGATGACCTTCCCGGGGACCTGCAGTCGCTGTC  
 GTGGCTCACGGCGGTGGATGTGCCTCGGCTGCAGCAGATGGCAAGTGGCCGCGTGGACCTGGGTGGCCCC  
 TGCCTGCCACATCCACACCCAGGTGCCTTGGCTGGGGTGGCCGACCTGCATGTGGGAGCCACTCCAAGTC  
 CCCTTCTCCATGGCCCAGCAGGCATGGCCCCCGAGGCATGCCAGGTCTGGGCCCCATAACTGGCCACAG  
 AGACAGCATGAGCCAGTCCCGTGGGGGGCCAGCCCTCATCTGGCTGCAGGACCCGCCCATCTGTAC  
 TCACCTGCCACCAACCACAGTCCCGCTCCCCCGGGTGGCCAGCAGTGCCTCCTGTGGGCTCTATG  
 GCCCCCCATTTGGGTGCGGCCCCCTACCCCCAGCCCCAGTGGCTGTGCATTATCTCAAGAAGTCA  
 CCCCAAACTACCCAAGCCCATCTACTCGTACAGCTGTCTGATCGCCATGGCCCTGAAGAACAGCAAG  
 ACAGGCAGCCTGCCTGTGAGCGAGATCTACAGTTCATGAAGGAGCACTCCCTACTTCAAGACGGCCC  
 CCGACGGGTGGAAGAAGTTCGGTGCAGCACAACCTGTCTCTGAACAAGTGTTCGAGAAGGTGGAGAACAA  
 GATGAGCGGCTCCTCCGCAAGGGTGCCTGTGGGCTCTGAACCTGGCCGCATCGACAAGATGGAGGAG  
 GAGATGCACAAGTGAAGAGGAAGGACCTGGCTGCCATCCACCGGAGTATGGCAACCTGAGGAGTTGG  
 ACAAGCTGATCTCCGACCGGCTGAAAGCTGCCGGCGCCCCGGCAAACCGGGGAACAGAGGCCCCCGT  
 GCTGACTCACGCCACCAGTGGCCGTGGCGCATGGCTGCCTGGCTGTCTCCAGCTCCCACCCAGCCA  
 CTGATGACCCTGTCCCTGCAGTCAGTCCCCTGCACCACCAGTCCAGCCCCAGGCACATCTTGTCCAG  
 ACTCTCCAGCACCAGCCAGACCCCGCCACTGCACGCCCTGCCGACCTCAGCCCCAGCCGCTCCCCCA  
 CCCCGCCATGGGAAGGGCTCCTGTAGACTTCATCAACATCAGCACCGACATGAACACTGAGGTGGATGCC  
 CTCGACCCGAGCATCATGGACTTCGCTCTGCAGGGGAACCTGTGGGAGGAGATGAAGGATGAGGGATTCA  
 GCTTGGACACACTGGGCGCCTTTCAGACTCCCGCTTGGCTGTGACCTGGGGCCCTCAGGCCTAACCC  
 TGCTCGGGTGGCAGCGACCACTCCTCCAGACTTGCAGGTGACGGGTCTTACACAGCTACTCCACT  
 CCGGACAGTGTGGCTGCATCGGGCACCAGCTCCTCCTCCAGTACCTGGGTGCACAGGGGAACAAGCCTA  
 TAGCCCTGCTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG216871 representing NM\_213596  
 Red=Cloning site Green=Tags(s)

MIESDTSSIMSGIIRNSGQNHHPSPQEYRLLATTSDDDLPGDLQSLSWLTAVDVPRLLQPMASGRVDLGGP  
 CVPHPHPGALAGVADLHVATPSPLLLHGPAGMAPRGMPLGPITGHRDSMSQFPVGGQPSGLQDPPHLY  
 SPATQPQFPLPPGAQQCPPVGLYGPPFVVRPPYPQPHVAVHSSQELHPKHYPKPIYSYSLIAMALKNSK  
 TGSLPVSEIYSFMKEHFPYFKTAPDGWKNSVRHNLNLNCFEKENKMSGSSRKGLWALNLARIDKMEE  
 EMHKWKRKDLAAIHRSMANPEELDKLISDRPESRRPGKPEPEAPVLTHATTVAVAHGCLAVSGLPPQP  
 LMTLSLQSVPLHHVQVQPAHLAPDSPAPAQTPPLHALPDLSPSPLPHPAMGRAPVDFINIISTDMNTEVDA  
 LDPSIMDFALQGNLWEEMKDEGFSLDTLGAFADSPLGCDLGASGLTPASGGSDQSFPLQVTGLYTAYST  
 PDSVAASGTSSSSQYLGAQGNKPIALL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_213596

**ORF Size:** 1551 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](mailto: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\\_213596.3](#)

RefSeq Size: 3356 bp

RefSeq ORF: 1554 bp

Locus ID: 121643

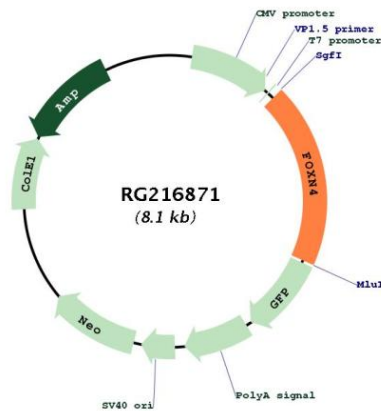
UniProt ID: [Q96NZ1](#)

Cytogenetics: 12q24.11

Protein Families: Transcription Factors

**Gene Summary:** Members of the winged-helix/forkhead family of transcription factors, such as FOXN4, are characterized by a 110-amino acid DNA-binding domain that can fold into a variant of the helix-turn-helix motif consisting of 3 alpha helices flanked by 2 large loops or wings. These transcription factors are involved in a variety of biologic processes as key regulators in development and metabolism (Li et al., 2004 [PubMed 15363391]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG216871