

Product datasheet for **RC216871**

FOXN4 (NM_213596) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXN4 (NM_213596) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216871 representing NM_213596
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATAGAAAGTGACACCTCATCCATAATGTCAGGAATTATTCGAAACTCAGGGCAAATCACCACCCCT
 CTCACAGGAATACAGGCTTCTAGCCACCACCAGCGATGATGACCTTCCGGGGACCTGCAGTCGCTGTC
 GTGGCTACGGCGGTGGATGTGCCTCGGCTGCAGCAGATGGCAAGTGGCCGCTGGACTGGGTGGCCCC
 TGGCTGCCACATCCACACCCAGGTGCCTTGGTGGGGTGGCCGACCTGCATGTGGGAGCCACTCCAAGTC
 CCCTTCTCCATGGCCAGCAGGCATGGCCCCCGAGGCATGCCAGGTCTGGGCCCCATAACTGGCCACAG
 AGACAGCATGAGCCAGTCCCGTGGGGGGCCAGCCCTCATCTGGCTGCAGGACCCGCCCATCTGTAC
 TCACCTGCCACCAACCACAGTCCCGCTCCCCCGGGTCCCAGCAGTGCCTCCTGTGGGCTCTATG
 GCCCCCCATTTGGGTGCGGCCCCCTACCCAGCCCCAGTGGCTGTGCATTATCTCAAGAAGTCA
 CCCCAAACTACCCCAAGCCATCTACTCGTACAGCTGTCTGATCGCCATGGCCCTGAAGAACAGCAAG
 ACAGGCAGCCTGCCTGTGAGCGAGATCTACAGTTCATGAAGGAGCACTCCCTACTTCAAGACGGCCC
 CCGACGGTGGAAAGAACTCGGTGCGGCACAACCTGTCTCTGAACAAGTGCTTCGAGAAGGTGGAGAACAA
 GATGAGCGGCTCCTCCGCAAGGGTGCCTGTGGGCTCTGAACCTGGCCGCATCGACAAGATGGAGGAG
 GAGATGCACAAGTGAAGAGGAAGGACCTGGCTGCCATCCACCGAGTATGGCAACCTGAGGAGTTGG
 ACAAGCTGATCTCCGACCGGCTGAAAGCTGCCGGCGCCCCGGCAAACCGGGGAACAGAGGCCCCCGT
 GCTGACTACGCCACCACAGTGGCCGTGGCGCATGGCTGCCTGGCTGTCTCCAGCTCCCACCCAGCCA
 CTGATGACCCTGTCCCTGCAGTCAGTCCCCTGCACCACAGTCCAGCCCCAGGCACATCTTGTCCAG
 ACTCTCCAGCACCCAGCCAGCCCGCCACTGCACGCCCTGCCGACCTCAGCCCCAGCCGCTCCCCCA
 CCCCGCATGGGAAGGGCTCCTGTAGACTTCATCAACATCAGCACCGACATGAACACTGAGGTGGATGCC
 CTCGACCCGAGCATCATGGACTTCGCTCTGCAGGGGAACCTGTGGGAGGAGATGAAGGATGAGGGATTCA
 GCTTGGACACACTGGGCGCCTTTCAGACTCCCGCTTGGCTGTGACCTGGGGGCTCAGGCCTAACCC
 TGCTCGGGTGGCAGCGACCACTCCTCCAGACTTGCAGGTGACGGTCTCTACACAGCTACTCCACT
 CCGGACAGTGTGGCTGCATCGGGCACCAGCTCCTCCTCCAGTACCTGGGTGCACAGGGGAACAAGCCTA
 TAGCCCTGCTT

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216871 representing NM_213596
 Red=Cloning site Green=Tags(s)

MIESDTSSIMSGIIRNSGQNHHPSPQEYRLLATTSDDDLPGDLQSLSWLTAVDVPRLQQMASGRVDLGGP
 CVPHPHPGALAGVADLHVATPSPL LHGPAGMAPRGMPLGPITGHRDSMSQFPVGGQPSSGLQDPPHLY
 SPATQPQFPLPPGAQQCPPVGLYPPFVGRPPYPQPHVAVHSSQELHPKHYPKPIYSYSLIAMALKNSK
 TGSLPVSEIYSFMKEHFPYFKTAPDGWKNSVRHNLNLNCFEKENKMSGSSRKGLWALNLARIDKMEE
 EMHKWKRKDLAAIHRSMANPEELDKLISDRPESRRRPGKPEPEAPVLTHATTVAVAHGCLAVSQLPPQP
 LMTLSLQSVPLHHVQVQPAHLAPDSPAPAQTPPLHALPDLSPSPLPHPAMGRAPVDFINISTDMNTEVDA
 LDPSIMDFALQGNLWEEMKDEGFSLDLTLGAFADSPLGCDLGASGLTPASGGSDQSFDPDLQVTGLYTAYST
 PDSVAASGTSSSSQYLGAQGNKPIALL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8101_g10.zip

Restriction Sites:

Sgfl-Mlul

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 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](#)

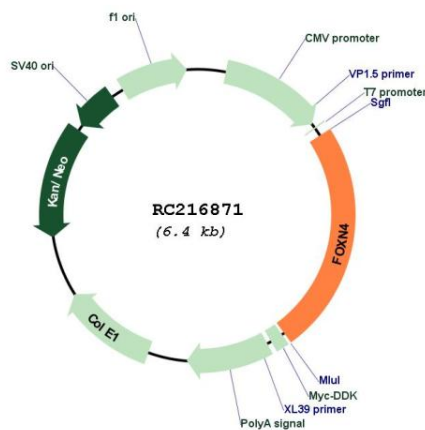
Cytogenetics: 12q24.11

Protein Families: Transcription Factors

MW: 55.2 kDa

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 RC216871