

## Product datasheet for **MC220062**

### **Foxn1 (NM\_008238) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Foxn1 (NM_008238) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Foxn1
Synonyms:	D11Bhm185e; Fkh19; HFH-11; Hfh11; nu; nude; wh; Whn
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220062 representing NM\_008238  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGTGCTACTCCCTCCGCAGTCTGACGTCACTTCCAGGCTCCACCCGACTGGAGGGCGAACCCC  
AAGGGGACCTCATGCAGGCTCCGGGCTCCAGACTCCCCTGCCACAGAAACAAGCATGCTAACTTCAG  
CTGCTCGTCGTTTGTGCCTGACGGCCCTCCAGAGAGGACACCCTCACTGCCCCACACAGCCCCAGCATC  
GCATCTCCAGACCCAGAGCAGATCCAGGGCCACTGCACAGCCGGACCCGGCCCGGCTCCTTCCGCCTTT  
CTCCTTCAGAAAAGTATCCTGGCTTTGGCTTTGAGGAGGGCCAGCAGGCAGCCAGGGCGCTTCTCAA  
GGCAACCCACATGCCTTTCCACCCTACAAGAGGCACTTCCATGAGGACATCTTCTGAGGCCAGACG  
GCCATGGCACTTGATGGACTCCTTTAAGACTCAGGGGGCACTGGAAGCCTTTGAGGAGATCCCTGTGG  
ACATGGGCGATGCTGAGGCTTCTGCCTAGCTTCCCAGCAGAGGCTTGGTGAATAAACTCCCTTACCC  
CAGCCAGGAACACAACCAAAATTCGAGGGGTGAGAGTCAAGGTCAAGCCCAAGCTCTGGACAGTGGT  
CCTGGGATGTACTGCTACCAGCCTCCCTTGCAACATATGTAAGTCTTCTCAGCCTGCCTTCCATCAGT  
ACTCCCCGGTGGAGGCAGCTACCCTGTGCCCTACCTGGGCTCACCTCACTATCCCTATCAGAGGATTGC  
ACCCAGGCCAACGCCGAAGGTCAACAGCCACTTCCCAAAGCCATCTACTTTACAGCATCCTCATC  
TTCATGGCCCTTAAGAACAGTAAGACCGGAAGCCTTCCAGTCACTGAAATCTACAATTTTCATGACGGAGC  
ACTTCCCTTACTCAAGACTGCTCCTGATGGCTGGAAGAATTCTGTTCCGCATAACCTGTCCCTCAACAA  
GTGCTTTGAGAAGGTGGAGAATAAATCCGAAGTCTCTCGAAAGGGCTGTCTGTGGGCCCTCAATCCT  
TCCAAAATCGACAAGATGCAGGAAGAACTGCAGAAGTGAAGAGGAAAGACCCCATGCTGTGCGCAAAA  
GCATGGCCAAACCAGAAGAGCTGGACAGCCTCATTGGAGACAAAAGGGAAAAACTGGGCTCTCCGCTGCT  
GGGCTGTCCACCCCTGGGCTGGCAGGCCAGGTCCCATCCGGCCATGGCACCATCAGCTGGTCTTTCC  
CAGCCTCTGCACCCAATGCATCCAGCTCCAGGCCCATGCCTGGCAAGAACCCCTGCAGGACCTACTGG  
GTGGCCATGCTCCCTCCTGCTATGGGCAGACCTACCCACACCTTTCCCCAGCCTGGCCCTTCTGGACA  
CCAGCAGCATTGTTCCACAGCCAGATGGGCATCTTGGAGCTGCAGGCCAGCCAGGCCACCCCCAGGAC  
TCACCTTACCTGCCACACACCACCCAGCCAGGTGCCAAGCTGATGGCTGAGCCTTCTCAGCCAGGA  
CCATGCACGATACTTACTGCCAGATGGAGACCTTGGGACTGACCTGGATGCTATCAACCCTTCTCTCAC  
TGACTTCGACTTCAGGGAAATCTGTGGGAGCAGCTGAAGGATGACAGCTTGGCCCTGGACCCCTCGTA  
TTGGTGACCTCGTCGCCGACGTATCCTCCATGTTGCCACCCACCAGCAGCCATTGCTTCCCCCAG  
GGCCTTGTCTGGCAGAAACAGGCAATGAGGCAGGTGAAGTGGCAGCTCCAGGCAGCGGGCTCCGGTGC  
TCTGGGAGACATGCACCTCAGCACTCTACTCCGCTTTGTGGAAGTGGAGTCCACGCCCTCTCAGCA  
GCTGCCGGCCCTGCCGTGTAACCTCAGTCCCGGCTCAAAGCCATTGGCTCTGGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_008238  
**Insert Size:** 1947 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](#)

**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\\_008238.2](#), [NP\\_032264.1](#)

**RefSeq Size:** 3273 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 15218

**UniProt ID:** [Q61575](#)

**Cytogenetics:** 11 46.74 cM

**Gene Summary:**

The protein encoded by this gene is part of the forkhead family or "winged-helix" transcription factors that are important in developmental processes, immune system regulation, metabolism, cancer and aging. This gene family has over 100 members, subdivided into classes (A-Q) based on phylogeny. The encoded protein is proposed to regulate development of the thymus and differentiation of keratinocytes. Mutations in this gene cause severe primary T-cell immunodeficiency and congenital alopecia. In mouse mutations of this gene underlie the phenotype of the nude mouse, which has been widely used as a model system in oncology, immunology, dermatology, and transplantation studies. In humans mutations in this gene have been correlated with T-cell immunodeficiency, the skin disorder congenital alopecia, and nail dystrophy. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Apr 2013]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.