

Product datasheet for **MC228572**

Foxn1 (NM_001277290) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxn1 (NM_001277290) 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: >MC228572 representing NM_001277290
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTGCTACTCCCTCCGAGTCTGACGTCACTTCCAGGCTCCACCCGACTGGAGGGCGAACCCC
 AAGGGGACCTCATGCAGGCTCCGGGCTCCAGACTCCCCTGCCCCACAGAACCATGCTAACTTCAGCTG
 CTCGTCGTTTGTGCTGACGGCCCTCCAGAGAGGACACCCTCACTGCCCCACACAGCCCCAGCATCGCA
 TCTCCAGACCCAGAGCAGATCCAGGGCCACTGCACAGCCGGACCCGGCCCGGGCTCCTTCCGCCTTTCTC
 CTTCAGAAAAGTATCCTGGCTTTGGCTTTGAGGAGGGCCAGCAGGCAGCCAGGGCGCTTCTCAAGGG
 CAACCACATGCCTTTCCACCCCTACAAGAGGCACTTCCATGAGGACATCTTCTGAGGCCAGACGGCC
 ATGGCACTTGATGGACACTCCTTAAGACTCAGGGGCACTGGAAGCCTTTGAGGAGATCCCTGTGGACA
 TGGGCGATGCTGAGGCCCTCCTGCCTAGCTTCCAGCAGAGGCTTGGTGAATAAACTCCCTTACCCAG
 CCAGGAACACAACCAAATTCGCAGGGTCAAGGTCAAGCCCAAGCTCTGGACAGTGGTCTCT
 GGGATGTACTGCTACCAGCCTCCCTTGCAACATATGACTGTTCTTCTCAGCCTGCCTCCATCAGTACT
 CCCCAGGTGGAGGAGCTACCCTGTGCCCTACCTGGGCTCACCTCACTATCCCTATCAGAGGATTGCACC
 CCAGGCCAACGCCGAAGGTCAACAGCCACTTCCCAAAGCCCATCTACTTTACAGCATCCTCATCTTC
 ATGGCCCTTAAGAACAGTAAGACCGGAAGCCTTCCAGTCACTGAAATCTACAATTCATGACGGAGCACT
 TCCCTTACTTCAAGACTGCTCCTGATGGCTGGAAGAATCTGTTCCGCATAACCTGTCCCTCAACAAGTG
 CTTTGAGAAGGTGGAGAATAAATCCGGAAGTTCCTCTCGAAAGGGCTGTCTGTGGCCCTCAATCCTTCC
 AAAATCGACAAGATGCAGGAAGAACTGCAGAAGTGAAGAGGAAAGACCCATTGCTGTCCGCAAAAGCA
 TGGCCAAACCAGAAGAGCTGGACAGCCTCATTGGAGACAAAAGGGAAAACTGGGCTCTCCGCTGTGGG
 CTGTCCACCCCTGGGCTGGCAGGCCAGTCCCATCCGGCCATGGCACCATCAGCTGGTCTTTCCAG
 CCTCTGCACCCAATGCATCCAGCTCCAGGCCCATGCCTGGCAAGAACCCTGCAGGACCTACTGGGTG
 GCCATGCTCCCTCCTGCTATGGGCAGACCTACCCACACCTTTCCCCAGCCTGGCCCTTCTGGACACCA
 GCAGCCATTGTTCCACAGCCAGATGGGCATCTTGAGCTGCAGGCCAGCCAGGCACCCCCAGGACTCA
 CCTTACTGCCACACACCACCCAGCCACGGTCCCAAGCTGATGGCTGAGCCTTCTCAGCCAGGACCA
 TGCACGATACTTACTGCCAGATGGAGACCTTGGGACTGACCTGGATGCTATCAACCCTTCTCTCACTGA
 CTTGACTTCCAGGAAATCTGTGGGAGCAGCTGAAGGATGACAGCTTGGCCCTGGACCCCTCGTATTG
 TGACCTCGTCGCCGACGTCATCTCCATGTTGCCACCCACCAGCAGCCATTGCTTCCCCCAGGGC
 CTTGCTGGCAGAAACAGGCAATGAGGCAGGTGAAGTGGCACCTCCAGGCAGCGGGCTCCGGTGCCT
 GGGAGACATGCACCTCAGCACTCTACTCCGCCTTTGTGGAAGTGGAGTCCACGCCCTCCTCAGCAGCT
 GCCGGCCCTGCCGTGTACCTCAGTCCCGCTCAAAGCCATTGGCTCTGGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001277290

Insert Size: 1944 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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:	<u>NM_001277290.1, NP_001264219.1</u>
RefSeq Size:	3270 bp
RefSeq ORF:	1944 bp
Locus ID:	15218
Cytogenetics:	11 46.74 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site in the 5' coding region compared to variant 1. It encodes isoform 2 which is shorter compared to isoform 1.</p>