

NU/J

Stock No: **002019** | nude

 Inbred Strain, Spontaneous Mutation

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Also Known As:athymic nude, nude

The two main defects of mice homozygous for the nude spontaneous mutation (*Foxn1^{nu}*, formerly *Hfh11^{nu}*) are abnormal hair growth and defective development of the thymic epithelium. Nude mice are also athymic; homozygous nude mice lack T cells and suffer from a lack of cell-mediated immunity. Homozygous nude mice show partial defect in B cell development.

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

VIEW GENETICS

RESEARCH APPLICATIONS

Dermatology Research

Endocrine Deficiency Research
Immunology, Inflammation and Autoimmunity Research
Research Tools
Internal/Organ Research

[VIEW ALL RESEARCH APPLICATION](#)

BASE PRICE

Starting at:

\$47.20 Domestic price for male 3-week

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Details

Important Note

This strain is segregating for *Foxn1^{nu}*.

Detailed Description

The two main defects of mice homozygous for the nude spontaneous mutation (*Foxn1^{nu}*, formerly *Hfh11^{nu}*) are abnormal hair growth and defective development of the thymic epithelium. Although the mice appear hairless, they are born with functional but faulty hair growth follicles. Hair growth cycles and patterns are evident especially in pigmented mice but the faulty follicles do not allow the hair to properly erupt. Homozygous pups can be identified as young as 24 hours by their lack of whiskers or poorly developed, crinkled whiskers. Nude mice are also athymic caused by a developmental failure of the thymic anlage. Consequently, homozygous nude mice lack T cells and suffer from a lack of cell-mediated immunity. However there is not a defect in T-cell precursors, and under the right conditions some functional mature T cells can be found especially in adult mice. Because of a defect in helper T-cell activity, responses to thymus-dependent antigens when detectable are primarily limited to IgM. Homozygous nude mice show partial defect in B cell development probably due to absence of functional T cells. Other endocrine and neurological deficiencies have been reported. The use of nude mice has reduced the number of thymectomy procedures required in research projects. Homozygous nude females are not effective breeders. Ovulation starts late at 2.5 months and ends early at 4 months.

[View Flow Cytometry Characterization Data for Immunodeficient JAX Strains](#)

+ Development

+ Control Suggestions

[+ Selected References](#)

[- Genetics](#)

[+ *Foxn1^{nu}*](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ Phenotype Information](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Restriction Enzyme Digest:[Foxn1](#)

End Point Analysis:[Foxn1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

[This strain is a good breeder.](#)

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Homozygote

Appearance

albino, without hair

Related Genotype: *A/A Tyr^c/Tyr^c Foxn1^{nu}/Foxn1^{nu}*

albino, with hair

Related Genotype: *A/A Tyr^c/Tyr^c Foxn1^{nu}/+*

Citation

When using the nude mouse strain in a publication, please include JAX stock #002019 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [RB10 \(Maximum\)](#)

 [AX27 \(Maximum\)](#)

 [RB06 \(Maximum\)](#)

 [AX29 \(Maximum\)](#)

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Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$47.89
	Male	Heterozygous for Foxn1 ^{nu}	\$47.20
3 weeks	Female	Homozygous for Foxn1 ^{nu}	\$48.36
	Male	Homozygous for Foxn1 ^{nu}	\$47.20
4 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$47.89
	Male	Heterozygous for Foxn1 ^{nu}	\$47.20
4 weeks	Female	Homozygous for Foxn1 ^{nu}	\$48.36
	Male	Homozygous for Foxn1 ^{nu}	\$47.20
5 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$47.18
	Male	Heterozygous for Foxn1 ^{nu}	\$46.50
5 weeks	Female	Homozygous for Foxn1 ^{nu}	\$48.36
	Male	Homozygous for Foxn1 ^{nu}	\$47.20
6 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$50.51

	SEX	Heterozygous for Foxn1 ^{nu}	\$49.78
6 weeks	Female	Homozygous for Foxn1 ^{nu}	\$51.01
	Male	Homozygous for Foxn1 ^{nu}	\$49.78
7 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$52.38
	Male	Heterozygous for Foxn1 ^{nu}	\$51.63
7 weeks	Female	Homozygous for Foxn1 ^{nu}	\$53.69
	Male	Homozygous for Foxn1 ^{nu}	\$52.40
8 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$55.75
	Male	Heterozygous for Foxn1 ^{nu}	\$54.94
8 weeks	Female	Homozygous for Foxn1 ^{nu}	\$56.30
	Male	Homozygous for Foxn1 ^{nu}	\$54.94
9 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$57.54
	Male	Heterozygous for Foxn1 ^{nu}	\$56.72
9 weeks	Female	Homozygous for Foxn1 ^{nu}	\$58.97
	Male	Homozygous for Foxn1 ^{nu}	\$57.57
10 weeks	Female	Heterozygous for Foxn1 ^{nu}	\$61.06
	Male	Heterozygous for Foxn1 ^{nu}	\$60.19
10 weeks	Female	Homozygous for Foxn1 ^{nu}	\$61.66
	Male	Homozygous for Foxn1 ^{nu}	\$60.19

VOLUME PRICING DETAILS

QUANTITY

Volume Pricing

75

10% off

Volume Pricing Program

Quantities: Volume pricing is automatically applied when a minimum quantity per strain for a shipment is reached
 Sexes: Sexes of the same strain may be combined to reach minimum quantity levels to receive the volume pricing
 Shipment: All shipping destinations qualify

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one breeding pair to avoid delays in their research.

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