



# Pricing Guide 2019

► US DOLLAR NONPROFIT



Prepared for:  
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**Taconic Biosciences**  
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## 129S6

**Model Number:** 129SVE

**Animal Type:** Inbred

**Nomenclature:** 129S6/SvEvTac

**Application(s):** Immunology, Inflammation, Model Generation Solutions, Neuroscience, Oncology & Imuno-Oncology, Psychiatric Disorders

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=129SVE>

**Species:** Mouse

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## 129SVE MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$35.00	\$36.00
5 to 7	\$41.00	\$42.00
8 to 10	\$49.00	\$51.00
Female w/Litter		\$233.00
Retired Breeder	\$55.00	\$58.00
Timed Pregnant		\$466.00
Untimed Pregnant		\$203.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## 129SVE EF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$44.00	\$46.00
5 to 7	\$51.00	\$54.00
8 to 10	\$62.00	\$65.00
Retired Breeder	\$70.00	\$75.00

## Abb (H2-Ab1) - Model ABBN12

**Model Number:** ABBN12

**Animal Type:** Constitutive Knockout

**Nomenclature:** B6.129-H2-Ab1<sup>tm1Gru</sup> N12

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Inflammation, Microbiome, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=ABBN12>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## ABBN12 MPF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$140.00	\$140.00
Retired Breeder	\$140.00	\$140.00

## Abb Knockout/Transgenic HLA-DR4

**Model Number:** 4149

**Animal Type:** Constitutive Knockout/Random Transgenic

**Nomenclature:** B6.129S2-H2-Ab1<sup>tm1Gru</sup>  
 Tg(HLA-DRA/H2-Ea,HLA-DRB1\*0401/H2-Eb)1Kito

**Application(s):** Autoimmune Disease, Genetically Humanized, Immunology, Infectious Disease, Inflammation, Microbiome, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=004149>

**Species:** Mouse

**4149 MPF ko/ko;tg/tg (in US Dollars, Non-profit)**

Age (weeks)	Male	Female
3 to 10	\$274.50	\$274.50

**Order on [taconic.com](https://etaconic.com)**

## ApoB100

**Model Number:** 1004

**Animal Type:** Random Transgenic

**Nomenclature:** B6.SJL-Tg(APOB)1102Sgy  
 N20+?

**Application(s):** Cardiovascular Disease, Genetically Humanized, Metabolic Disease, Microbiome

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=001004>

**Species:** Mouse

**1004 MPF tg/wt (in US Dollars, Non-profit)**

Age (weeks)	Male	Female
3 to 10	\$295.40	\$295.40

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## ApoE

**Model Number:** APOE

**Animal Type:** Constitutive Knockout

**Nomenclature:** B6.129P2-*Apo<sup>e</sup>*<sup>tm1Unc</sup> N11

**Application(s):** Alzheimer's Disease, Autoimmune Disease, Cardiovascular Disease, Diabetes, Metabolic Disease, Microbiome, Neuroscience, Psychiatric Disorders

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=APOE>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## APOE MPF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$123.00	\$123.00
Retired Breeder	\$205.00	\$205.00

## APOE2

**Model Number:** 1547

**Animal Type:** Targeted Replacement

**Nomenclature:** B6.129P2-*Apo<sup>e</sup>*<sup>tm1(APOE\*2)Mae</sup> N9

**Application(s):** Alzheimer's Disease, Autoimmune Disease, Cardiovascular Disease, Diabetes, Genetically Humanized, Metabolic Disease, Microbiome, Neuroscience, Psychiatric Disorders

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001547>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 1547 MPF hu/hu (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$342.00	\$342.00



## APOE3

**Model Number:** 1548

**Animal Type:** Targeted Replacement

**Nomenclature:** B6.129P2-*Apoe*<sup>tm2(APOE\*3)Mae</sup>  
N8

**Application(s):** Alzheimer's Disease,  
Autoimmune Disease, Cardiovascular Disease,  
Diabetes, Genetically Humanized, Infectious  
Disease, Inflammation, Metabolic Disease,  
Microbiome, Neuroscience, Psychiatric  
Disorders

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001548>

**Species:** Mouse

**1548 MPF hu/hu (in US Dollars, Non-profit)**

Age (weeks)	Male	Female
3 to 10	\$342.00	\$342.00

**Order on [taconic.com](https://etaconic.com)**

## APOE4

**Model Number:** 1549

**Animal Type:** Targeted Replacement

**Nomenclature:** B6.129P2-*Apoe*<sup>tm3(APOE\*4)Mae</sup>  
N8

**Application(s):** Alzheimer's Disease,  
Genetically Humanized, Neuroscience,  
Psychiatric Disorders

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001549>

**Species:** Mouse

**1549 MPF hu/hu (in US Dollars, Non-profit)**

Age (weeks)	Male	Female
3 to 10	\$342.00	\$342.00

**Order on [taconic.com](https://etaconic.com)**

## APPSWE - Model 1349

**Model Number:** 1349

**Animal Type:**

**Nomenclature:** B6;SJL-Tg(APPSWE)2576Kha

**Application(s):** Alzheimer's Disease,  
Genetically Humanized, Neuroscience,  
Psychiatric Disorders

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001349>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 1349 MPF tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
6 to 12	\$378.00	\$378.00
13 to 21	\$402.50	\$402.50
22 to 29	\$465.50	\$465.50
30 to 38	\$521.50	\$521.50
39 to 45	\$581.00	\$581.00

### 1349 MPF wt/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
6 to 12	\$128.10	\$128.10
13 to 21	\$156.10	\$156.10
22 to 29	\$227.50	\$227.50
30 to 38	\$305.20	\$305.20
39 to 45	\$366.10	\$366.10

### 1349-RD1 MPF tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
6 to 12	\$507.50	\$507.50
13 to 21	\$529.90	\$529.90
22 to 29	\$595.00	\$595.00
30 to 38	\$646.80	\$646.80
39 to 45	\$710.50	\$710.50

### 1349-RD1 MPF wt/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
6 to 12	\$191.80	\$191.80
13 to 21	\$218.40	\$218.40
22 to 29	\$291.20	\$291.20
30 to 38	\$367.50	\$367.50
39 to 45	\$429.80	\$429.80

## APPSWE - Model 2789

**Model Number:** 2789

**Animal Type:** Random Transgenic

**Nomenclature:** 129S6.Cg-  
Tg(APPSWE)2576Kha N20+?

**Application(s):** Alzheimer's Disease,  
Genetically Humanized, Neuroscience

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=002789>

**Species:** Mouse

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### 2789 MPF tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
6 to 12	\$406.00	\$406.00

### 2789 MPF wt/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
6 to 12	\$129.50	\$129.50

## APPSWE-Tau

**Model Number:** 2469

**Animal Type:** Random Transgenic

**Nomenclature:** STOCK Tg(APPSWE)2576Kha  
Tg(Prnp-MAPT\*P301L)JNPL3Hlmc

**Application(s):** Alzheimer's Disease,  
Genetically Humanized, Neuroscience

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=002469>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 2469 MPF tg/wt;tg/wt (in US Dollars)

Age (weeks)	Male	Female
4 to 10	\$683.00	\$683.00

### 2469 MPF wt/wt;tg/wt (in US Dollars)

Age (weeks)	Male	Female
4 to 10	\$606.00	\$606.00

### 2469-RD1 MPF tg/wt;tg/wt (in US Dollars)

Age (weeks)	Male	Female
4 to 10	\$735.00	\$735.00

### 2469-RD1 MPF wt/wt;tg/wt (in US Dollars)

Age (weeks)	Male	Female
4 to 10	\$654.00	\$654.00

## APPSWE-Tau Control

**Model Number:** 3273

**Animal Type:**

**Nomenclature:** STOCK

**Application(s):** Alzheimer's Disease,  
Genetically Humanized, Neuroscience

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=003273>

**Species:** Mouse

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## 3273 MPF wt/wt;wt/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$307.00	\$307.00

## 3273-RD1 MPF wt/wt;wt/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$365.00	\$365.00

## B6 Albino

**Model Number:** 11971

**Animal Type:** Targeted Replacement

**Nomenclature:** C57BL/6NTac-Tyr<sup>tm1Arte</sup>

**Application(s):** Model Generation Solutions

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=11971>

**Species:** Mouse

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## 11971 MPF ki/ki (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$90.00	\$90.00

## B6.SJL

**Model Number:** 4007

**Animal Type:** Congenic

**Nomenclature:** B6.SJL-*Ptprc*<sup>a</sup>/BoyAiTac

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Inflammation, Microbiome, Model Generation Solutions, Oncology & Imuno-Oncology, Reporter Lines

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=004007>

**Species:** Mouse

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## 4007 MPF sp/sp (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$53.00	\$57.00
5 to 7	\$65.00	\$69.00
8 to 10	\$83.00	\$89.00
Female w/Litter		\$345.00
Retired Breeder	\$102.00	\$100.00
Untimed Pregnant		\$233.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## B6129F1

**Model Number:** B6129

**Animal Type:** Hybrid

**Nomenclature:** B6129F1/Tac

**Application(s):** Inflammation, Metabolic Disease, Microbiome

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6129>

**Species:** Mouse

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## B6129 MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$37.00	\$38.00
5 to 7	\$44.00	\$46.00
8 to 10	\$52.00	\$54.00
Female w/Litter		\$232.00
Untimed Pregnant		\$196.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## B6C3F1

**Model Number:** B6C3F1

**Animal Type:** Hybrid

**Nomenclature:** B6C3F1/Tac

**Application(s):** Immunology, Infectious Disease, Inflammation, Microbiome, Model Generation Solutions, Neuroscience, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6C3F1>

**Species:** Mouse

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## B6C3F1 MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$47.00	\$47.00
5 to 7	\$55.00	\$55.00
8 to 10	\$63.00	\$63.00
Female w/Litter		\$290.00

## B6D2F1

**Model Number:** B6D2F1

**Animal Type:** Hybrid

**Nomenclature:** B6D2F1/Tac

**Application(s):** Immunology, Infectious Disease, Inflammation, Microbiome, Model Generation Solutions, Neuroscience

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6D2F1>

**Species:** Mouse

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## B6D2F1 MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$47.00	\$47.00
5 to 7	\$55.00	\$55.00
8 to 10	\$63.00	\$63.00
Female w/Litter		\$290.00
Untimed Pregnant		\$255.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## B6JBom

**Model Number:** B6JBOM

**Animal Type:** Inbred

**Nomenclature:** C57BL/6JBomTac

**Application(s):** ADMET, Alzheimer's Disease, Autoimmune Disease, Cardiovascular Disease, Diabetes, Epilepsy, Immunology, Infectious Disease, Inflammation, Inflammatory Bowel Disease, Metabolic Disease, Microbiome, Model Generation Solutions, Neuroscience, Oncology & Imuno-Oncology, Ophthalmology, Parkinson's Disease, Psychiatric Disorders, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6JBOM>

**Species:** Mouse

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## B6JBOM MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$100.00	\$100.00
5 to 7	\$110.00	\$110.00
8 to 9	\$120.00	\$120.00
Retired Breeder	\$125.00	\$125.00
Untimed Pregnant		\$550.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## B6SJLF1

**Model Number:** B6SJL

**Animal Type:** Hybrid

**Nomenclature:** B6SJLF1/Tac

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Inflammation, Microbiome, Model Generation Solutions, Oncology & Imuno-Oncology, Reporter Lines

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6SJL>

**Species:** Mouse

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## B6SJL MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$45.00	\$45.00
5 to 7	\$49.00	\$49.00
8 to 10	\$60.00	\$60.00

## BALB/c

**Model Number:** BALB

**Animal Type:** Inbred

**Nomenclature:** BALB/cAnNTac

**Application(s):** ADMET, Alzheimer's Disease, Autoimmune Disease, Cardiovascular Disease, Diabetes, Epilepsy, Immunology, Infectious Disease, Inflammation, Inflammatory Bowel Disease, Metabolic Disease, Microbiome, Model Generation Solutions, Neuroscience, Oncology & Imuno-Oncology, Ophthalmology, Parkinson's Disease, Psychiatric Disorders, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=BALB>

**Species:** Mouse

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## BALB MPF (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-199	3 to 4	\$23.00	\$26.00
1-199	5 to 6	\$28.00	\$29.00
1-199	7 to 8	\$31.00	\$32.00
1-199	9 to 10	\$40.00	\$37.00
1-999	Female w/Litter		\$230.00
1-999	Retired Breeder	\$47.00	\$42.00
200+	3 to 4	\$21.00	\$24.00
200+	5 to 6	\$25.00	\$27.00
200+	7 to 8	\$28.00	\$29.00
200+	9 to 10	\$36.00	\$34.00

## BALB EF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$34.00	\$38.00
5 to 6	\$39.00	\$42.00
7 to 8	\$45.00	\$47.00
9 to 10	\$58.00	\$55.00
Female w/Litter		\$315.00

## BALB GF (in US Dollars)

Age (weeks)	Male	Female
3	\$428.00	\$428.00
4	\$464.00	\$464.00
5	\$517.00	\$517.00
6	\$535.00	\$535.00
7	\$559.00	\$559.00
8	\$583.00	\$583.00
9	\$619.00	\$619.00
10	\$654.00	\$654.00
Retired Breeder	\$654.00	\$654.00



## BALB/c Bom

**Model Number:** BALJBO

**Animal Type:** Inbred

**Nomenclature:** BALB/cJBomTac

**Application(s):** ADMET, Alzheimer's Disease, Autoimmune Disease, Cardiovascular Disease, Diabetes, Epilepsy, Immunology, Infectious Disease, Inflammation, Inflammatory Bowel Disease, Metabolic Disease, Microbiome, Model Generation Solutions, Neuroscience, Oncology & Imuno-Oncology, Ophthalmology, Parkinson's Disease, Psychiatric Disorders, Reporter Lines, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=BALJBO>

**Species:** Mouse

Contact us for pricing on this model

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## Bcrp

**Model Number:** 2767

**Animal Type:** Constitutive Knockout

**Nomenclature:** FVB.129P2-*Abcg2*<sup>tm1Ahs</sup>N7

**Application(s):** ADMET, Oncology & Imuno-Oncology, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=002767>

**Species:** Mouse

### 2767 MPF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$272.00	\$272.00
Retired Breeder	\$272.00	\$272.00

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## Black 6 (B6NTac)

**Model Number:** B6

**Animal Type:** Inbred

**Nomenclature:** C57BL/6NTac

**Application(s):** ADMET, Autoimmune Disease, Cardiovascular Disease, Diabetes, Immunology, Infectious Disease, Inflammation, Inflammatory Bowel Disease, Metabolic Disease, Microbiome, Model Generation Solutions, Neuroscience, Oncology & Imuno-Oncology, Psychiatric Disorders, Transgenic Model Generation Support, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## B6 MPF (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-199	3 to 4	\$26.00	\$26.00
1-199	5 to 8	\$31.00	\$31.00
1-199	9 to 10	\$37.00	\$37.00
1-199	11	\$43.00	\$43.00
1-199	12	\$49.00	\$43.00
1-199	Timed Pregnant		\$267.00
1-999	13 to 14	\$58.00	
1-999	15 to 16	\$67.00	
1-999	17 to 18	\$76.00	
1-999	19 to 20	\$85.00	
1-999	21 to 22	\$94.00	
1-999	23 to 24	\$103.00	
1-999	25 to 26	\$112.00	
1-999	27 to 31	\$130.00	
1-999	32 to 36	\$148.00	
1-999	37 to 40	\$166.00	
1-999	41 to 44	\$184.00	
1-999	45 to 48	\$202.00	
1-999	49 to 52	\$220.00	
1-999	Female w/Litter		\$275.00
1-999	Retired Breeder	\$45.00	\$45.00
1-999	Untimed Pregnant		\$189.00
200+	3 to 4	\$23.00	\$23.00
200+	5 to 8	\$27.00	\$27.00
200+	9 to 10	\$33.00	\$33.00
200+	11	\$38.00	\$38.00
200+	12	\$44.00	\$38.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Black 6 (B6NTac)

**Model Number:** B6

**Animal Type:** Inbred

**Nomenclature:** C57BL/6NTac

**Application(s):** ADMET, Autoimmune Disease, Cardiovascular Disease, Diabetes, Immunology, Infectious Disease, Inflammation, Inflammatory Bowel Disease, Metabolic Disease, Microbiome, Model Generation Solutions, Neuroscience, Oncology & Imuno-Oncology, Psychiatric Disorders, Transgenic Model Generation Support, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=B6>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## B6 EF (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-199	Timed Pregnant		\$390.00
1-999	3 to 4	\$44.00	\$44.00
1-999	5 to 6	\$55.00	\$55.00
1-999	7 to 8	\$64.00	\$64.00
1-999	9 to 10	\$72.00	\$72.00
1-999	11 to 12	\$81.00	\$81.00
1-999	Female w/Litter		\$365.00
1-999	Retired Breeder	\$77.00	\$77.00
1-999	Untimed Pregnant		\$270.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## B6 GF (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-29	3	\$432.00	\$432.00
1-29	4	\$469.00	\$469.00
1-29	5	\$522.00	\$522.00
1-29	6	\$541.00	\$541.00
1-29	7	\$565.00	\$565.00
1-29	8	\$589.00	\$589.00
1-29	9	\$625.00	\$625.00
1-29	10	\$661.00	\$661.00
1-999	Retired Breeder	\$661.00	\$661.00
1-999	Untimed Pregnant		\$2512.00
30-999	3	\$412.00	\$412.00
30-999	4	\$446.00	\$446.00
30-999	5	\$498.00	\$498.00
30-999	6	\$515.00	\$515.00
30-999	7	\$538.00	\$538.00
30-999	8	\$561.00	\$561.00
30-999	9	\$595.00	\$595.00
30-999	10	\$629.00	\$629.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## C.B-17 scid

**Model Number:** CB17SC

**Animal Type:** Spontaneous Mutant

**Nomenclature:** C.B-*Igh-1<sup>b</sup>/IcrTac-Prkdc<sup>scid</sup>*

**Application(s):** Immunology, Inflammatory Bowel Disease, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=CB17SC>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## CB17SC EF sp/sp (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-999	Female w/Litter		\$570.00
1-999	Retired Breeder	\$90.00	\$90.00
1-999	Untimed Pregnant		\$428.00
1-99	3 to 4	\$85.00	\$85.00
1-99	5 to 6	\$90.00	\$90.00
1-99	7 to 8	\$95.00	\$95.00
100+	3 to 4	\$80.00	\$80.00
100+	5 to 6	\$85.00	\$85.00
100+	7 to 8	\$90.00	\$90.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## C3H

**Model Number:** C3H

**Animal Type:** Inbred

**Nomenclature:** C3H/HeNTac

**Application(s):** Immunology, Infectious Disease, Inflammation, Microbiome, Neuroscience, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=C3H>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## C3H EF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$38.00	\$44.00
5 to 7	\$43.00	\$47.00
8 to 10	\$50.00	\$60.00
Female w/Litter		\$312.00
Retired Breeder	\$57.00	\$73.00
Untimed Pregnant		\$290.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Cdh5(PAC)-CreERT2 Mouse

**Model Number:** 13073

**Animal Type:** Random Transgenic

**Nomenclature:** C57BL/6-Tg(Cdh5-cre/ERT2)1Rha

**Application(s):** Cardiovascular Disease, Oncology & Imuno-Oncology, Recombinase-mediated gene deletion

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=13073>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

**13073 MPF tg/wt (in US Dollars)**

Age (weeks)	Male	Female
4 to 10	\$250.00	\$250.00

## CETP

**Model Number:** 3715

**Animal Type:** Random Transgenic

**Nomenclature:** B6.SJL-Tg(APOA-CETP)1Dsg N11

**Application(s):** Cardiovascular Disease

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=003715>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

**3715 MPF tg/wt (in US Dollars, Non-profit)**

Age (weeks)	Male	Female
3 to 10	\$295.40	\$295.40

## CETP-ApoB100

**Model Number:** 3716

**Animal Type:** Random Transgenic

**Nomenclature:** B6.SJL-Tg(APOA-CETP)1Dsg  
Tg(APOB)1102Sgy N10

**Application(s):** Cardiovascular Disease

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=003716>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 3716 MPF tg/wt;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$362.60	\$362.60

## CIEA BRG mouse

**Model Number:** 11503

**Animal Type:** Constitutive Knockout

**Nomenclature:** C.Cg-Rag2<sup>tm1Fwa</sup>  
Il2rg<sup>tm1Sug</sup>/JicTac

**Application(s):** Immunology, Infectious Disease, Inflammation, Oncology & Immunology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=11503>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 11503 EF ko/ko;ko/ko (in US Dollars, Non-profit)

Age (weeks)	Female
3 to 10	\$165.00

## 11503 EF ko/ko;ko/y (in US Dollars, Non-profit)

Age (weeks)	Male
3 to 10	\$165.00

## CIEA NOG mouse®

**Model Number:** NOG

**Animal Type:** Constitutive Knockout / Spontaneous Mutant

**Nomenclature:** NOD.Cg-*Prkdc*<sup>scid</sup>  
*Il2rg*<sup>tm1Sug</sup>/JicTac

**Application(s):** Immunology, Infectious Disease, Inflammation, Oncology & Immuno-Oncology, Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=NOG>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## NOG EF sp/sp;ko/y (in US Dollars, Non-profit)

Quantity	Age (weeks)	Male
1-49	3 to 10	\$75.00
50-99	3 to 10	\$72.50
100+	3 to 10	\$70.00

## NOG EF sp/sp;ko/ko (in US Dollars, Non-profit)

Quantity	Age (weeks)	Female
1-49	3 to 10	\$93.60
50-99	3 to 10	\$88.00
100+	3 to 10	\$84.40

## NOG DF sp/sp;ko/y (in US Dollars, Non-profit)

Quantity	Age (weeks)	Male
1-49	3 to 10	\$153.50
50+	3 to 10	\$143.50

## NOG DF sp/sp;ko/ko (in US Dollars, Non-profit)

Quantity	Age (weeks)	Female
1-49	3 to 10	\$154.00
50+	3 to 10	\$148.00

## Cre Deleter

**Model Number:** 12524

**Animal Type:** Targeted Transgenic

**Nomenclature:** C57BL/6NTac-  
*Gt(ROSA)26Sor<sup>tm16(cre)Arte</sup>*

**Application(s):** Recombinase-mediated gene deletion

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=12524>

**Species:** Mouse

### 12524 EF ki/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$350.00	\$350.00

**Order on [taconic.com](https://etaconic.com)**

## Cyp2d Knockout Mouse

**Model Number:** 9178

**Animal Type:** Constitutive Knockout

**Nomenclature:** C57BL/6-Del(15Cyp2d22-Cyp2d26)1Arte

**Application(s):** ADMET

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=009178>

**Species:** Mouse

### 9178 MPF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$180.00	\$180.00

**Order on [taconic.com](https://etaconic.com)**



## DBA/1

**Model Number:** DBA1BO

**Animal Type:** Inbred

**Nomenclature:** DBA/1JBomTac

**Application(s):** Autoimmune Disease, Immunology, Inflammation

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=DBA1BO>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## DBA1BO MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$48.00	\$48.00
5 to 7	\$53.00	\$53.00
8 to 10	\$61.00	\$61.00
Female w/Litter		\$293.00
Retired Breeder	\$70.00	\$70.00
Untimed Pregnant		\$228.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## DBA/2

**Model Number:** DBA2

**Animal Type:** Inbred

**Nomenclature:** DBA/2NTac

**Application(s):** Epilepsy, Immunology, Infectious Disease, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=DBA2>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## DBA2 MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$52.00	\$52.00
5 to 7	\$59.00	\$59.00
8 to 10	\$72.00	\$72.00
Female w/Litter		\$309.00
Retired Breeder	\$77.00	\$77.00
Untimed Pregnant		\$291.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Diet Induced Obese (DIO) B6

**Model Number:** DIO-B6

**Animal Type:**

**Nomenclature:** C57BL/6NTac

**Application(s):** Cardiovascular Disease, Diabetes, Inflammation, Metabolic Disease, Microbiome

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6DIO>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## B6-DIOCONTROL MPF (in US Dollars)

Age (weeks)	Male
7 to 8	\$31.00
9 to 10	\$37.00
11	\$43.00
12	\$49.00
13 to 14	\$58.00
15 to 16	\$67.00
17 to 18	\$76.00
19 to 20	\$85.00
21 to 22	\$94.00
23 to 24	\$103.00
25 to 26	\$112.00
27 to 31	\$130.00
32 to 36	\$148.00
37 to 40	\$166.00
41 to 44	\$184.00
45 to 48	\$202.00
49 to 52	\$220.00

## Diet Induced Obese (DIO) B6

**Model Number:** DIO-B6

**Animal Type:**

**Nomenclature:** C57BL/6NTac

**Application(s):** Cardiovascular Disease, Diabetes, Inflammation, Metabolic Disease, Microbiome

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=B6DIO>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## DIO-B6 MPF (in US Dollars)

Age (weeks)	Male
9	\$62.00
10	\$70.00
11	\$76.00
12	\$83.00
13	\$89.00
14	\$96.00
15	\$104.00
16	\$112.00
17	\$119.00
18	\$126.00
19	\$133.00
20	\$139.00
21	\$146.00
22	\$153.00
23	\$160.00
24	\$166.00
25	\$173.00
26	\$180.00

## Fcer1g (FcR $\gamma$ ) - Model 583

**Model Number:** 583

**Animal Type:** Constitutive Knockout

**Nomenclature:** B6.129P2-*Fcer1g*<sup>tm1Rav</sup>N12

**Application(s):** Autoimmune Disease, Immunology, Inflammation, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=000583>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 583 MPF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$283.50	\$283.50

## Fcer1g - Model 584

**Model Number:** 584

**Animal Type:** Constitutive Knockout

**Nomenclature:** C.129P2(B6)-*Fcer1g*<sup>tm1Rav</sup>N12

**Application(s):** Autoimmune Disease, Immunology, Inflammation, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=000584>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 584 MPF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$283.50	\$283.50

## Fcgr2b (FcγRII) - Model 580

**Model Number:** 580

**Animal Type:** Constitutive Knockout

**Nomenclature:** B6.129S4-*Fcgr2b*<sup>tm1Ttk</sup>/N12

**Application(s):** Autoimmune Disease, Immunology, Inflammation, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=000580>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 580 MPF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$283.50	\$283.50

## Fcgr2b - Model 579

**Model Number:** 579

**Animal Type:** Constitutive Knockout

**Nomenclature:** C.129S4(B6)-*Fcgr2b*<sup>tm1Ttk</sup>/cAnNTac N12

**Application(s):** Autoimmune Disease, Immunology, Inflammation, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=000579>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 579 MPF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$283.50	\$283.50

## Flp Deleter

**Model Number:** 7089

**Animal Type:** Random Transgenic

**Nomenclature:** C57BL/6-Tg(CAG-Flpe)2Arte

**Application(s):** Model Generation Solutions, Recombinase-mediated gene deletion, Transgenic Model Generation Support

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=007089>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 7089 EF tg/tg (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$350.00	\$350.00

## 7089 EF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$350.00	\$350.00

## FVB

**Model Number:** FVB

**Animal Type:** Inbred

**Nomenclature:** FVB/NTac

**Application(s):** Immunology, Inflammation, Model Generation Solutions

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=FVB>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## FVB MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$26.00	\$28.00
5 to 7	\$32.00	\$34.00
8 to 10	\$39.00	\$43.00
Female w/Litter		\$227.00
Retired Breeder	\$44.00	\$52.00
Timed Pregnant		\$265.00
Untimed Pregnant		\$175.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Goto-Kakizaki

**Model Number:** GK

**Animal Type:** Inbred

**Nomenclature:** GK/MolTac

**Application(s):** Diabetes, Metabolic Disease

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=GK>

**Species:** Rat

**Order on [taconic.com](https://etaconic.com)**

## GK MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$385.00	\$385.00
5 to 7	\$460.00	\$460.00
8 to 10	\$530.00	\$530.00
11 to 12	\$590.00	\$590.00
13 to 14	\$630.00	
Retired Breeder	\$600.00	\$600.00

## hIL-15 NOG

**Model Number:** 13683

**Animal Type:**

**Nomenclature:** NOD.Cg-Prkdc<sup>scid</sup> Il2rg<sup>tm1Sug</sup>  
Tg(CMV-IL2/IL15)1-1Jic/JicTac

**Application(s):** Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=13683>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 13683 EF sp/sp;ko/ko;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Female
4 to 10	\$200.00

## 13683 EF sp/sp;ko/y;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male
4 to 10	\$200.00

## hIL-2 NOG

**Model Number:** 13440

**Animal Type:**

**Nomenclature:** NOD.Cg-*Prkdc*<sup>scid</sup> *Il2rg*<sup>tm1Sug</sup>  
 Tg(CMV-IL2)4-2Jic/JicTac

**Application(s):** Immunology, Inflammation,  
 Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=13440>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 13440 EF sp/sp;ko/ko;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Female
4 to 10	\$200.00

## 13440 EF sp/sp;ko/y;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male
4 to 10	\$200.00

## hIL-6 NOG

**Model Number:** 13686

**Animal Type:**

**Nomenclature:** NOD.Cg-*Prkdc*<sup>scid</sup> *Il2rg*<sup>tm1Sug</sup>  
 Tg(CMV-IL6)1-1Jic/JicTac

**Application(s):** Immunology, Inflammation,  
 Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=13686>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 13686 EF sp/sp;ko/ko;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Female
3 to 10	\$200.00

## 13686 EF sp/sp;ko/y;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male
3 to 10	\$200.00



## HLA-A1

**Model Number:** 9662

**Animal Type:** Random Transgenic

**Nomenclature:** CB6F1-Tg(HLA-A\*0101/H2-Kb)A1.01

**Application(s):** Immunology, Infectious Disease, Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=009662>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 9662 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$305.00	\$305.00

## 9662 MPF wt/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$125.00	\$125.00

## HLA-A11

**Model Number:** 9660

**Animal Type:** Random Transgenic

**Nomenclature:** CB6F1-Tg(HLA-A\*1101/H2-Kb)A11.01

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Oncology & Imuno-Oncology, Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=009660>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 9660 MPF tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$274.50	\$274.50

## HLA-A2.1

**Model Number:** 9659

**Animal Type:** Random Transgenic

**Nomenclature:** CB6F1-Tg(HLA-A\*0201/H2-Kb)A\*0201

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Oncology & Imuno-Oncology, Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=009659>

**Species:** Mouse

## 9659 MPF tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$274.50	\$274.50

**Order on [taconic.com](https://etaconic.com)**

## HLA-A24

**Model Number:** 9663

**Animal Type:** Random Transgenic

**Nomenclature:** CB6F1-Tg(HLA-A\*2402/H2-Kb)A24.01

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Oncology & Imuno-Oncology, Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=009663>

**Species:** Mouse

## 9663 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$305.00	\$305.00

**Order on [taconic.com](https://etaconic.com)**

## HLA-B44

**Model Number:** 9664

**Animal Type:** Random Transgenic

**Nomenclature:** CB6F1-Tg(HLA-B\*4002/H2-Kb)B44.01

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Oncology & Imuno-Oncology, Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=009664>

**Species:** Mouse

## 9664 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$305.00	\$305.00

**Order on [taconic.com](https://etaconic.com)**

## HLA-B7

**Model Number:** 9661

**Animal Type:** Constitutive Knockout/Random Transgenic

**Nomenclature:** CB6F1-*B2m<sup>tm1Unc</sup>* Tg(B2M)55Hpl Tg(HLA-B\*0702/H2-Kb)B7.xx

**Application(s):** Autoimmune Disease, Immunology, Infectious Disease, Oncology & Imuno-Oncology, Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=009661>

**Species:** Mouse

## 9661 MPF ko/wt;tg/wt;tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$305.00	\$305.00

**Order on [taconic.com](https://etaconic.com)**

## hTH-GFP Rat (X-linked)

**Model Number:** 12141

**Animal Type:** Random Transgenic

**Nomenclature:** NTac:SD-Tg(TH-EGFP)24Xen

**Application(s):** Neuroscience, Parkinson's Disease

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=12141>

**Species:** Rat

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## 12141 MPF tg/tg (in US Dollars)

Age (weeks)	Female
3 to 7	\$200.00

## 12141 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 7	\$200.00	\$200.00

## Human 22q11.2 Deletion [Df(h22q11)/+] Mouse

**Model Number:** 11026

**Animal Type:** Constitutive Knockout (Genomic Deletion)

**Nomenclature:** C57BL/6- Del(16Dgcr2-Hira)1Tac

**Application(s):** Neuroscience, Psychiatric Disorders

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=11026>

**Species:** Mouse

**Order on taconic.com**

## 11026 MPF ko/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$214.20	\$214.20

## Human LRRK2 G2019S Rat

**Model Number:** 10681

**Animal Type:** Random Transgenic

**Nomenclature:** NTac:SD-  
Tg(LRRK2\*G2019S)571CJLi

**Application(s):** Neuroscience, Parkinson's Disease

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=10681>

**Species:** Rat

**Order on [taconic.com](https://etaconic.com)**

## 10681 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 7	\$103.00	\$103.00

## Humanized Liver & Gut CYP3A4 Mouse

**Model Number:** 9049

**Animal Type:** Constitutive Knockout

**Nomenclature:** FVB.129P2-*Cyp3a13*<sup>tm1Ahs</sup>  
Del(5Cyp3a57-Cyp3a59)1Ahs Tg(Vil1-CYP3A4)1Ahs Tg(APOE-CYP3A4)A1Ahs

**Application(s):** ADMET, Metabolic Disease, Microbiome, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=009049>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 9049 MPF ko/ko;ko/ko;tg/tg;tg/tg (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$320.00	\$320.00

## Humanized OATP1B1/1B3 Mouse

**Model Number:** 11594

**Animal Type:** Constitutive Knockout/Random Transgenic

**Nomenclature:** FVB.129P2-Del(Slco1b2-Slco1a5)1Ahs Tg(APOE-SLCO1B1)1Ahs Tg(APOE-SLCO1B3)1Ahs

**Application(s):** ADMET, Metabolic Disease, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=11594>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

**11594 MPF ko/ko;tg/tg;tg/tg (in US Dollars, Non-profit)**

Age (weeks)	Male	Female
3 to 10	\$391.00	\$391.00

## Humanized PXR-CAR-CYP3A4/3A7 Mouse

**Model Number:** 11585

**Animal Type:** Targeted Replacement

**Nomenclature:** C57BL/6-Nr1i3<sup>tm1(NR1I3)Arte</sup> Is(5CYP3A4-CYP3A7;Del5Cyp3a57-Cyp3a59)2Arte Nr1i2<sup>tm1(NR1I2)Arte</sup>

**Application(s):** ADMET, Metabolic Disease, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=11585>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

**11585 MPF hu/hu;hu/hu;hu/hu (in US Dollars, Non-profit)**

Age (weeks)	Male	Female
3 to 10	\$356.00	\$356.00

## huNOG

**Model Number:** HSCCB-NOG

**Animal Type:** Constitutive Knockout

**Nomenclature:** NOD.Cg-Prkdc<sup>scid</sup> Il2rg<sup>tm1Sug</sup>/JicTac

**Application(s):** Immunology, Infectious Disease, Oncology & Imuno-Oncology, Safety Assessment, Transgenic Model Generation Support

**Health Report:**

<https://etaconic.com/health/health-monitoring-report?trg=HMP004>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## HSCCB-NOG sp/sp;ko/ko (in US Dollars, Non-profit)

Female

\$1000.00

## HSCFTL-NOG sp/sp;ko/ko (in US Dollars, Non-profit)

Female

\$1000.00

## huNOG-EXL

**Model Number:** HSCFTL-13395

**Animal Type:**

**Nomenclature:** NOD.Cg-Prkdc<sup>scid</sup> Il2rg<sup>tm1Sug</sup> Tg(SV40/HTLV-IL3,CSF2)10-7Jic/JicTac

**Application(s):** Immunology, Infectious Disease, Oncology & Imuno-Oncology, Safety Assessment, Transgenic Model Generation Support

**Health Report:**

<https://etaconic.com/health/health-monitoring-report?trg=HMP004>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## HSCCB-13395 sp/sp;ko/ko;tg/wt (in US Dollars, Non-profit)

Female

\$1280.00

## HSCFTL-13395 sp/sp;ko/ko;tg/wt (in US Dollars, Non-profit)

Female

\$1280.00

## huPBMC-NOG

**Model Number:** huPBMC-NOG

**Animal Type:**

**Nomenclature:** NOD.Cg-Prkdc<sup>scid</sup>  
 Il2rg<sup>tm1Sug</sup>/JicTac

**Application(s):** Immunology, Infectious  
 Disease, Oncology & Imuno-Oncology, Safety  
 Assessment, Transgenic Model Generation  
 Support

**Health Report:**

<https://etaconic.com/health/health-monitoring-report?trg=HMP004>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

**Contact us for pricing on this model**

## ICR scid

**Model Number:** ICRSC

**Animal Type:** Spontaneous Mutant

**Nomenclature:** IcrTac:ICR-Prkdc<sup>scid</sup>

**Application(s):** Immunology, Inflammation,  
 Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=ICRSC>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## ICRSC EF sp/sp (in US Dollars, Non-profit)

Quantity	Age (weeks)	Male	Female
1-99	3 to 5	\$42.50	\$42.50
1-99	6 to 8	\$51.00	\$51.00
1-99	9	\$59.50	\$59.50
100+	3 to 5	\$38.25	\$38.25
100+	6 to 8	\$45.90	\$45.90
100+	9	\$53.55	\$53.55



## II10 Knockout (B6)

**Model Number:** 16006

**Animal Type:** Constitutive Knockout

**Nomenclature:** C57BL/6NTac-II10<sup>em8Tac</sup>

**Application(s):** Immunology, Inflammation

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=16006>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 16006 EF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$207.20	\$207.20
Retired Breeder	\$245.00	\$245.00

## 16006 GF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 8	\$437.50	\$437.50
Retired Breeder	\$535.50	\$535.50

## II10 Knockout (BALB/c)

**Model Number:** 15660

**Animal Type:** Constitutive Knockout

**Nomenclature:** BALB/cAnNTac-II10<sup>em7Tac</sup>

**Application(s):** Immunology, Inflammation

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=15660>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 15660 EF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$207.20	\$207.20
Retired Breeder	\$245.00	\$245.00

## 15660 GF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 8	\$437.50	\$437.50
Retired Breeder	\$535.50	\$535.50

## Jh

**Model Number:** 1147

**Animal Type:** Constitutive Knockout

**Nomenclature:** STOCK *Igh-J<sup>tm1Dhu</sup>* N?+N2

**Application(s):** Autoimmune Disease, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001147>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 1147 MPF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$200.00	\$200.00
Retired Breeder	\$200.00	\$200.00

## LRRK2 G2019S Mouse

**Model Number:** 13940

**Animal Type:** Targeted Replacement

**Nomenclature:** C57BL/6-*Lrrk2<sup>tm4.1Arte</sup>*

**Application(s):** Neuroscience, Parkinson's Disease

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=13940>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

### 13940 MPF ki/ki (in US Dollars)

Age (weeks)	Male	Female
3 to 8	\$125.00	\$125.00

## Mdr1a

**Model Number:** MDR1A

**Animal Type:** Constitutive Knockout

**Nomenclature:** FVB.129P2-*Abcb1a*<sup>tm1Bor</sup>N7

**Application(s):** ADMET, Inflammation, Inflammatory Bowel Disease, Microbiome, Neuroscience, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=MDR1A>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## MDR1A MPF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$272.00	\$272.00
Retired Breeder	\$272.00	\$272.00

## Mdr1a/b

**Model Number:** 1487

**Animal Type:** Constitutive Knockout

**Nomenclature:** FVB.129P2-*Abcb1a*<sup>tm1Bor</sup>*Abcb1b*<sup>tm1Bor</sup>N12

**Application(s):** ADMET, Inflammation, Inflammatory Bowel Disease, Microbiome, Neuroscience, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001487>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 1487 MPF ko/ko;ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$272.00	\$272.00
Retired Breeder	\$272.00	\$272.00

## Mdr1a/b-Bcrp

**Model Number:** 3998

**Animal Type:** Constitutive Knockout

**Nomenclature:** FVB.129P2-*Abcb1a*<sup>tm1Bor</sup>  
*Abcb1b*<sup>tm1Bor</sup> *Abcg2*<sup>tm1Ahs</sup> N7

**Application(s):** ADMET, Inflammation,  
 Inflammatory Bowel Disease, Microbiome,  
 Neuroscience, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=003998>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 3998 MPF ko/ko;ko/ko;ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$280.00	\$280.00
Retired Breeder	\$280.00	\$280.00

## NCr nude

**Model Number:** NCRNU

**Animal Type:** Spontaneous Mutant

**Nomenclature:** CrTac:NCr-*Foxn1*<sup>nu</sup>

**Application(s):** Cell and Tissue Humanized,  
 Immunology, Inflammation, Oncology &  
 Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=NCRNU>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## NCRNU EF sp/sp (in US Dollars, Non-profit)

Quantity	Age (weeks)	Male	Female
1-99	4	\$54.00	\$54.00
1-99	5 to 7	\$63.00	\$63.00
1-99	8 to 9	\$67.50	\$67.50
100+	4	\$48.60	\$48.60
100+	5 to 7	\$56.70	\$56.70
100+	8 to 9	\$61.20	\$61.20

## NCRNU EF sp/wt (in US Dollars)

Age (weeks)	Female
Female w/Litter	\$455.00
Retired Breeder	\$83.00
Untimed Pregnant	\$378.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## NF $\kappa$ B-RE-luc

**Model Number:** 10499

**Animal Type:** Random Transgenic

**Nomenclature:** BALB/c-Tg(Rela-luc)31Xen

**Application(s):** Immunology, Infectious Disease, Inflammation, Inflammatory Bowel Disease, Microbiome, Oncology & Imuno-Oncology, Reporter Lines

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=10499>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 10499 MPF tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
5 to 10	\$280.00	\$280.00

## NIH nude rat

**Model Number:** NIHRNU

**Animal Type:** Spontaneous Mutant

**Nomenclature:** NTac:NIH-*Foxn1*<sup>nu</sup>

**Application(s):** Cell and Tissue Humanized, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=NIHRNU>

**Species:** Rat

**Order on [taconic.com](https://etaconic.com)**

## NIHRNU EF sp/sp (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 4	\$169.15	\$169.15
5 to 8	\$212.50	\$212.50
9 to 12	\$238.00	\$238.00

## NIHRNU EF sp/wt (in US Dollars)

Age (weeks)	Female
Female w/Litter	\$1750.00
Retired Breeder	\$200.00
Untimed Pregnant	\$1400.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## NMRI

**Model Number:** NMRI

**Animal Type:** Outbred

**Nomenclature:** BomTac:NMRI

**Application(s):** Safety Assessment, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=NMRI>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## NMRI MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$16.00	\$16.00
5 to 7	\$17.00	\$17.00
8 to 10	\$19.00	\$19.00
Female w/Litter		\$120.00
Retired Breeder	\$35.00	
Timed Pregnant		\$134.00
Untimed Pregnant		\$104.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## NMRI nude

**Model Number:** NMRINU

**Animal Type:** Spontaneous Mutant

**Nomenclature:** BomTac:NMRI-*Foxn1<sup>nu</sup>*

**Application(s):** Cell and Tissue Humanized, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=NMRINU>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## NMRINU OF sp/sp (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-999	3 to 5	\$122.00	\$122.00
1-999	6 to 8	\$153.00	\$153.00
1-49	Retired Breeder	\$110.00	

## NMRINU OF sp/wt (in US Dollars)

Quantity	Age (weeks)	Female
1-49	Retired Breeder	\$110.00

## NOD

**Model Number:** NOD

**Animal Type:** Inbred

**Nomenclature:** NOD/MrkTac

**Application(s):** Diabetes, Immunology, Inflammation, Metabolic Disease, Microbiome

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelName=NOD>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## NOD EF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$65.00	\$75.00
5 to 7	\$80.00	\$95.00
8 to 9	\$94.00	\$115.00

## NOD scid

**Model Number:** NODSC

**Animal Type:** Spontaneous Mutant

**Nomenclature:** NOD/MrkBomTac-*Prkdc*<sup>scid</sup>

**Application(s):** Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelName=NODSC>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## Contact us for pricing on this model

## NOG-EXL (hGM-CSF/hIL-3 NOG)

**Model Number:** 13395

**Animal Type:**

**Nomenclature:** NOD.Cg-Prkdc<sup>scid</sup> Il2rg<sup>tm1Sug</sup>  
 Tg(SV40/HTLV-IL3,CSF2)10-7Jic/JicTac

**Application(s):** Cell and Tissue Humanized, Genetically Humanized, Immunology, Infectious Disease, Inflammation, Oncology & Imuno-Oncology, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=13395>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 13395 EF sp/sp;ko/ko;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Female
4 to 10	\$169.00

## 13395 EF sp/sp;ko/y;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male
4 to 10	\$143.00

## 13395 HOMOZYGOUS;HOMOZYGOUS;UNKNOWN (in US Dollars)

Age (weeks)	Female
Untimed Pregnant	\$1400.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Oatp1a/1b Cluster Knockout Mouse

**Model Number:** 10707

**Animal Type:** Constitutive Knockout

**Nomenclature:** FVB.129P2-Del(Slco1b2-Slco1a5)1Ahs

**Application(s):** ADMET

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=10707>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 10707 MPF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$304.00	\$304.00



## Pxr-Car Knockout Mouse

**Model Number:** 8222

**Animal Type:** Constitutive Knockout

**Nomenclature:** C57BL/6-*Nr1i2*<sup>tm3Arte</sup>  
*Nr1i3*<sup>tm1.1Arte</sup>

**Application(s):** ADMET

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=008222>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 8222 MPF ko/ko;ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$230.00	\$230.00

## Rag2 - Model 601

**Model Number:** 601

**Animal Type:** Constitutive Knockout

**Nomenclature:** C.129S6(B6)-*Rag2*<sup>tm1Fwa</sup> N12

**Application(s):** Cell and Tissue Humanized, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=000601>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 601 EF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$190.00	\$190.00
Retired Breeder	\$190.00	\$190.00

## Rag2 - Model RAGN12

**Model Number:** RAGN12

**Animal Type:** Constitutive Knockout

**Nomenclature:** B6.129S6-Rag2<sup>tm1Fwa</sup>N12

**Application(s):** Cell and Tissue Humanized, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=RAGN12>

**Species:** Mouse

**Order on taconic.com**

### RAGN12 MPF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$175.00	\$175.00
Retired Breeder	\$175.00	\$175.00

### RAGN12 EF ko/ko (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$215.00	\$215.00
Retired Breeder	\$215.00	\$215.00

## Rag2/Il2rg Double Knockout

**Model Number:** 4111

**Animal Type:** Constitutive Knockout

**Nomenclature:** B10;B6-Rag2<sup>tm1Fwa</sup> Il2rg<sup>tm1Wjl</sup>

**Application(s):** Cell and Tissue Humanized, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=004111>

**Species:** Mouse

**Order on taconic.com**

### 4111 EF ko/ko;ko/ko (in US Dollars, Non-profit)

Age (weeks)	Female
3 to 10	\$171.00

### 4111 EF ko/ko;ko/y (in US Dollars, Non-profit)

Age (weeks)	Male
3 to 10	\$171.00

## Rag2/OT-I

**Model Number:** 2334

**Animal Type:** Constitutive Knockout/Random Transgenic

**Nomenclature:** B6.129S6-*Rag2*<sup>tm1Fwa</sup>  
Tg(TcraTcrb)1100Mjb

**Application(s):** Autoimmune Disease, Immunology, Inflammation

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=002334>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 2334 MPF ko/ko;tg/tg (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$280.00	\$280.00
Retired Breeder	\$280.00	\$280.00

## Rag2/OT-II (11490)

**Model Number:** 11490

**Animal Type:** Constitutive Knockout/Random Transgenic

**Nomenclature:** B6.129S6-*Rag2*<sup>tm1Fwa</sup>  
Tg(TcraTcrb)425Cbn

**Application(s):** Autoimmune Disease, Immunology, Inflammation

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=11490>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 11490 MPF ko/ko;tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$280.00	\$280.00

## rasH2

**Model Number:** 1178

**Animal Type:** Random Transgenic

**Nomenclature:** CByB6F1-Tg(HRAS)2Jic

**Application(s):** ADMET, Oncology & Immu-Oncology, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=001178>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 1178 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
4 to 10	\$652.00	\$652.00

## 1178 MPF wt/wt (in US Dollars)

Age (weeks)	Male	Female
4 to 10	\$500.00	\$500.00

## scid-beige

**Model Number:** CBSCBG

**Animal Type:** Spontaneous Mutant

**Nomenclature:** C.B-*Igh*-1b/GbmsTac-*Prkdc*<sup>scid</sup>-*Lys*<sup>bg</sup>N7

**Application(s):** Cell and Tissue Humanized, Immunology, Inflammation, Oncology & Immu-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=CBSCBG>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## CBSCBG DF sp/sp;sp/sp (in US Dollars)

Age (weeks)	Male	Female
3 to 6	\$148.00	\$148.00
7 to 11		\$133.30
7 to 10	\$167.00	
Retired Breeder	\$167.00	\$167.00

## SJL

**Model Number:** SJL

**Animal Type:** Inbred

**Nomenclature:** SJL/JCrNTac

**Application(s):** Cardiovascular Disease, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=SJL>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## SJL MPF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$61.00	\$70.00
5 to 6	\$70.00	\$85.00
7 to 9	\$85.00	\$100.00
Female w/Litter		\$489.00
Retired Breeder	\$88.00	\$105.00
Untimed Pregnant		\$350.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## SOD1 Rat

**Model Number:** 2148

**Animal Type:** Random Transgenic

**Nomenclature:** NTac:SD-Tg(SOD1G93A)L26H

**Application(s):** Neuroscience, Parkinson's Disease

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=002148>

**Species:** Rat

**Order on [taconic.com](https://etaconic.com)**

## 2148 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 12	\$213.00	\$213.00

## 2148 MPF wt/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 12	\$129.00	\$129.00

## Sprague Dawley®

**Model Number:** SD

**Animal Type:** Outbred

**Nomenclature:** NTac:SD

**Application(s):** ADMET, Cardiovascular Disease, Neuroscience, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=SD>

**Species:** Rat

**Order on [taconic.com](https://etaconic.com)**

## SD MPF (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-999	Female w/Litter		\$143.00
1-999	Retired Breeder	\$56.00	\$44.00
1-999	Timed Pregnant		\$136.00
1-999	Untimed Pregnant		\$100.00
1-99	0 to 3	\$19.00	\$18.00
1-99	4 to 5	\$26.00	\$26.00
1-99	6 to 7	\$39.00	\$38.00
1-99	8 to 9	\$47.00	\$40.00
1-99	10	\$57.00	\$44.00
1-99	11	\$67.00	\$50.00
1-99	12	\$77.00	\$56.00
1-99	13	\$84.00	\$62.00
1-99	14	\$97.00	\$68.00
1-99	15	\$107.00	\$74.00
100+	0 to 3	\$19.00	\$16.00
100+	4 to 5	\$26.00	\$24.00
100+	6 to 7	\$39.00	\$34.00
100+	8 to 9	\$47.00	\$36.00
100+	10	\$57.00	\$40.00
100+	11	\$67.00	\$45.00
100+	12	\$77.00	\$50.00
100+	13	\$84.00	\$56.00
100+	14	\$97.00	\$61.00
100+	15	\$107.00	\$67.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Sprague Dawley®

**Model Number:** SD

**Animal Type:** Outbred

**Nomenclature:** NTac:SD

**Application(s):** ADMET, Cardiovascular Disease, Neuroscience, Safety Assessment

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=SD>

**Species:** Rat

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## SD EF (in US Dollars)

Age (weeks)	Male	Female
0 to 3	\$35.00	\$34.00
4 to 5	\$45.00	\$51.00
6 to 7	\$67.00	\$58.00
8 to 9	\$85.00	\$70.00
10	\$95.00	\$80.00
11	\$115.00	\$90.00
12	\$125.00	\$100.00
13	\$135.00	\$110.00
14	\$155.00	\$120.00
15	\$185.00	\$130.00
Female w/Litter		\$196.00
Timed Pregnant		\$222.00
Untimed Pregnant		\$177.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Stat1

**Model Number:** 2045

**Animal Type:** Constitutive Knockout

**Nomenclature:** 129S6/SvEv-Stat1<sup>tm1Rds</sup>

**Application(s):** Immunology, Inflammation,  
Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelNo=002045>

**Species:** Mouse

## 2045 MPF ko/ko (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$187.20	\$187.20

**Order on [taconic.com](https://etaconic.com)**



## Swiss Webster

**Model Number:** SW

**Animal Type:** Outbred

**Nomenclature:** Tac:SW

**Application(s):** Safety Assessment, Transgenic Model Generation Support, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=SW>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## SW MPF (in US Dollars)

Quantity	Age (weeks)	Male	Female
1-199	3 to 4	\$9.00	\$9.00
1-199	5 to 6	\$11.00	\$11.00
1-199	7 to 8	\$12.00	\$12.00
1-199	9 to 10	\$13.00	\$13.00
1-199	11 to 12	\$20.00	\$20.00
1-999	Female w/Litter		\$113.00
1-999	Retired Breeder	\$14.00	\$14.00
1-999	Timed Pregnant		\$94.00
1-999	Untimed Pregnant		\$65.00
200+	3 to 4	\$8.00	\$8.00
200+	5 to 6	\$10.00	\$10.00
200+	7 to 8	\$11.00	\$11.00
200+	9 to 10	\$12.00	\$12.00
200+	11 to 12	\$18.00	\$18.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## SW EF (in US Dollars)

Age (weeks)	Male	Female
3 to 4	\$24.00	\$24.00
5 to 6	\$26.00	\$26.00
7 to 8	\$28.00	\$28.00
9 to 10	\$30.00	\$30.00
Female w/Litter		\$150.00
Timed Pregnant		\$170.00
Untimed Pregnant		\$120.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Swiss Webster

**Model Number:** SW

**Animal Type:** Outbred

**Nomenclature:** Tac:SW

**Application(s):** Safety Assessment, Transgenic Model Generation Support, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=SW>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## SW GF (in US Dollars)

Age (weeks)	Male	Female
3	\$263.00	\$263.00
4	\$287.00	\$287.00
5	\$294.00	\$294.00
6	\$317.00	\$317.00
7	\$329.00	\$329.00
8	\$359.00	\$359.00
9	\$399.00	\$399.00
10	\$436.00	\$445.00
Female w/Litter		\$1964.00
Retired Breeder	\$436.00	\$445.00
Untimed Pregnant		\$1596.00

\*Untimed pregnant requests are filled with late gestation pregnant females. Pups may be delivered in transit.

## Tau - Model 1638

**Model Number:** 1638

**Animal Type:** Random Transgenic

**Nomenclature:** STOCK Tg(Prnp-MAPT\*P301L)JNPL3Hlmc

**Application(s):** Alzheimer's Disease, Genetically Humanized, Neuroscience

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001638>

**Species:** Mouse

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### 1638 MPF tg/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$458.00	\$458.00
Retired Breeder	\$520.00	

### 1638 MPF wt/wt (in US Dollars)

Age (weeks)	Male	Female
3 to 10	\$205.00	\$205.00

### 1638-RD1 MPF tg/wt (in US Dollars)

Age (weeks)	Male
3 to 10	\$500.00

### 1638-RD1 MPF wt/wt (in US Dollars)

Age (weeks)	Male
3 to 10	\$500.00

## Tau - Model 2508

**Model Number:** 2508

**Animal Type:** Random Transgenic

**Nomenclature:** STOCKTg(Prnp-MAPT\*P301L)JNPL3Hlmc

**Application(s):** Alzheimer's Disease, Genetically Humanized, Neuroscience

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=002508>

**Species:** Mouse

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### 2508 MPF tg/tg (in US Dollars, Non-profit)

Age (weeks)	Male	Female
3 to 10	\$351.20	\$351.20

## TK-NOG

**Model Number:** 12907

**Animal Type:**

**Nomenclature:** NOD.Cg-Prkdc<sup>scid</sup> Il2rg<sup>tm1Sug</sup>  
 Tg(Alb-TK)7-2/ShiJic

**Application(s):** ADMET, Cell and Tissue Humanized

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=12907>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 12907 EF sp/sp;ko/ko;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Female
3 to 10	\$260.00

## 12907 EF sp/sp;ko/y;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male
3 to 10	\$260.00

## TNF- $\alpha$

**Model Number:** 1006

**Animal Type:** Random Transgenic

**Nomenclature:** B6.Cg-Tg(TNF)#Xen

**Application(s):** Autoimmune Disease, Genetically Humanized, Immunology, Inflammation, Oncology & Imuno-Oncology

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=001006>

**Species:** Mouse

**Order on [taconic.com](https://etaconic.com)**

## 1006 MPF tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
4 to 10	\$362.95	\$362.95

## 1006 MPF wt/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
4 to 10	\$169.15	\$169.15

## $\beta$ -actin-luc - Model 11977

**Model Number:** 11977

**Animal Type:** Random Transgenic

**Nomenclature:** B6.Cg-*Tyr<sup>tm1Arte</sup>*Tg(Actb-luc)46Xen

**Application(s):** ADMET, Alzheimer's Disease, Autoimmune Disease, Cardiovascular Disease, Diabetes, Immunology, Infectious Disease, Inflammation, Microbiome, Neuroscience, Oncology & Imuno-Oncology, Parkinson's Disease, Psychiatric Disorders, Reporter Lines, Vaccine Research

**Health Report:**

<https://etaconic.com/health/health-monitoring-index-for-animal-model?modelno=11977>

**Species:** Mouse

## 11977 MPF ki/ki;tg/wt (in US Dollars, Non-profit)

Age (weeks)	Male	Female
5 to 10	\$280.00	\$280.00

**Order on [taconic.com](https://etaconic.com)**

# The rasH2 Mouse\*

## A MODEL TO ACCELERATE CARCINOGENICITY TESTING STUDIES.

When you perform traditional carcinogenicity testing over a two-year horizon, time and costs are not the only things you are adding to your protocol. You are also exposing your research to the risk of spontaneous tumor development in your models – a risk that can skew your findings.

### THE TACONIC rasH2 MOUSE\* OFFERS A BETTER ALTERNATIVE

Taconic rasH2 mice enable you to perform short-term carcinogenicity testing of compounds on a much faster time line – reducing the in-life portion of your study to 1/4 of a traditional two year study.

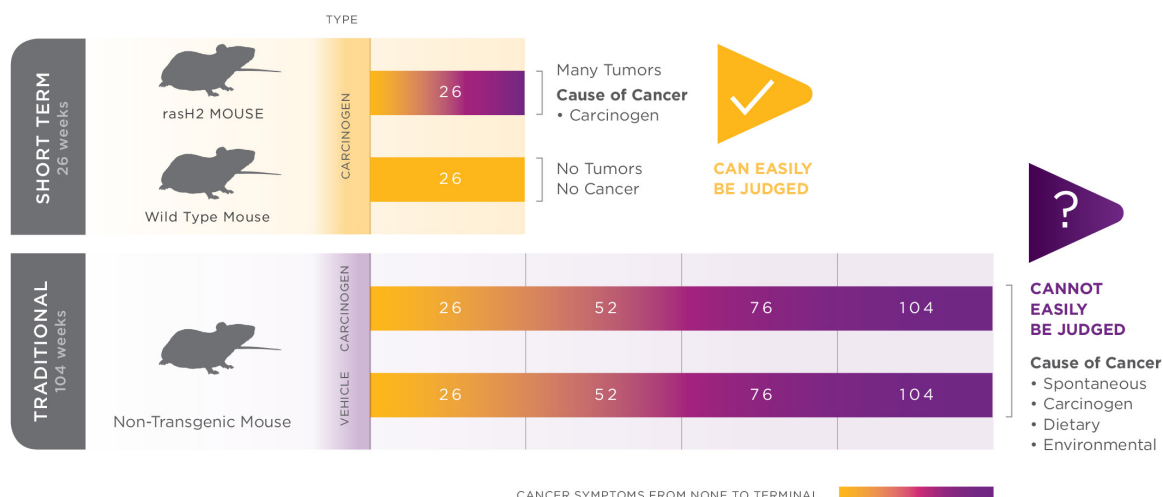
The use of rasH2 is approved by the FDA and the International Conference on Harmonisation (ICH) S1B Guideline<sup>1</sup>. Faster testing means lower costs, quicker answers on your compounds, and a significantly lower risk of spontaneous tumors.

Like all of the models in our unique Taconic Transgenic Models portfolio, rasH2 mice are sold with full research use rights and are readily available in typical study quantities – enabling you to immediately begin using them in your research.

### ADVANTAGES OF THE rasH2 MOUSE\*

- ▶ **Shorter studies.** Using Taconic's rasH2 mice, you can greatly reduce the in-life portion of your testing – cutting your study time by as much as 75 percent.
- ▶ **Lower study costs.** Taconic rasH2 mice reduce your total research costs through lower cage costs, less compound administration, and reduced labor costs.
- ▶ **Faster results.** Since Taconic's rasH2 mice allow you to complete carcinogenicity studies in a fraction of the time, you obtain critical data and answers sooner.
- ▶ **More accurate results.** With no spontaneous tumor indication up to the age of 6 months, Taconic rasH2 mice reduce the incidence of false positives.
- ▶ **Availability of Historical Data.** A substantial amount of phenotypic background data is available for rasH2<sup>2,3,4,5</sup>. These data demonstrate the low incidences of spontaneous tumors and the robustness of the model in identifying carcinogens, providing a valuable reference for current and future carcinogenicity studies.

### CARCINOGENICITY TESTING (IN WEEKS)



# The rasH2 Mouse\*

## CONTINUED

### KEY APPLICATIONS

Taconic rasH2 mice provide a fast, cost-effective option for testing for mutagenic and non-mutagenic chemically-induced tumor formation.

### HOW TACONIC'S rasH2 MOUSE\* WORKS

Taconic rasH2 mice carry the human c-Ha-ras oncogene in addition to the endogenous murine Ha-ras oncogene. The presence of the human c-Ha-ras gene makes hemizygous rasH2 mice highly susceptible to tumor development when exposed to compounds that cause cancer in humans.

Taconic rasH2 mice are FDA approved for use in short-term carcinogenicity testing that has an in-life portion of only six months – reducing your testing timeline by up to 75 percent. rasH2 mice also demonstrate an extremely low incidence of spontaneous tumors, with no indication of pre-neoplastic cell stages or tumors until the age of 6 months. They are also proven to provide much more rapid onset and a higher incidence of more malignant tumors after being treated with mutagenic or nonmutagenic carcinogens. By empowering you to complete carcinogenicity testing on a significantly faster timeline, Taconic rasH2 models greatly reduce your costs and help to minimize the risk of false positives as a result of spontaneous tumors.

## PROPOSED CHANGES IN THE ICH S1 GUIDELINES ON RODENT CARCINOGENICITY TESTING: THE UTILITY OF THE rasH2 MODEL

A change to the current ICH S1 guidelines on rodent carcinogenicity testing is being considered<sup>6</sup>. The proposal suggests that the traditional two year rat carcinogenicity assay may not be necessary for certain compounds based on the compound's properties. For such compounds sponsors will have the choice to either conduct a traditional 2-year mouse study or to use a short term transgenic mouse testing assay, with an apparent time advantage for the latter approach. Furthermore, the ICH S1 guidelines propose a short-term transgenic carcinogenicity assay as one way of quickly determining the need for a further two year rat study.

The ICH S1 has developed a set of Weight of Evidence (WOE). Sponsors are encouraged to develop a Carcinogenicity Assessment Document (CAD) that include this Weight of Evidence to determine the value and need for a 2-year rat carcinogenicity study. Studies using the rasH2 model can be used as part of the WOE in preparing the Carcinogenicity Assessment Document<sup>7</sup>.

Talk to one of our PhD scientists to learn more about these proposed guideline changes and the future utility of the rasH2 model in light of these proposals.

# The rasH2 Mouse\*

## CONTINUED

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## PRODUCTS AND SERVICES

The development of animal models capable of mimicking human immune responses is crucial to study the pathophysiology of disease and to generate new therapeutic methodologies. Significant advances in immunology modeling have been made utilizing the super immune-deficient CIEA NOG mouse®, but the full application of engrafted human immune models depends upon overcoming some cross-species differences.

THE CIEA NOG mouse®

- ▶ The original super immune deficient mouse with unparalleled potential for engraftment of human cells and tissues. [\*\*www.taconic.com/nog\*\*](http://www.taconic.com/nog)
- ▶ Excellent model for a variety of xenograft and human cell engraftment studies
- ▶ Applications in research involving cancer, infectious disease (HIV, malaria), immuno-oncology, CAR-T, iPS, and humanized immune system engraftment
- ▶ Now available pre-engrafted with human hematopoietic stem cells as huNOG for immediate delivery at 16 weeks post-engraftment

NOG-EXL  
(hGM-CSF/hIL-3 NOG)

- ▶ NOG mouse expressing human GM-CSF and IL-3
- ▶ Supports higher overall engraftment and superior myeloid cell differentiation after human HSC engraftment
- ▶ May be a suitable host for human acute myeloid leukemia (AML) xenografts
- ▶ Now available pre-engrafted with HSCs as huNOG-EXL for immediate delivery at 11 weeks post-engraftment

## hIL-2 NOG

- ▶ Super immunodeficient NOG mouse expressing human IL-2 cytokine
- ▶ May be used for studying tumor infiltrating lymphocytes (TIL) and adoptive cell therapies
- ▶ Predominant differentiation of human NK cells following human HSC engraftment
- ▶ May be used for studying CD8+ T cell-mediated GvHD
- ▶ May be a suitable host for human NK cell engrafting



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# The NOG Portfolio

## PRODUCTS AND SERVICES (CONTINUED)

### hIL-15 NOG

- ▶ Super immunodeficient NOG mouse expressing human IL-15 cytokine
- ▶ Predominant differentiation of human NK cells following human HSC engraftment compared to the base NOG mouse, but survival time is limited
- ▶ Engraftment and expansion of human NK cells following engraftment with CD56+ NK cells derived from PBMCs
- ▶ Supports superior NK cell expansion following human PBMC engraftment

### hIL-6 NOG

- ▶ NOG mouse expressing human IL-6 cytokine
- ▶ May be a suitable host for human multiple myeloma (MM) xenografts
- ▶ Enhanced expansion of human monocytes following human HSC engraftment
- ▶ Increased tumor-associated macrophage (TAM) infiltration in tumor xenografts following human HSC engraftment

### TK-NOG

- ▶ Super immunodeficient NOG mouse with transgenic expression of thymidine kinase under control of liver-restricted albumin promoter
- ▶ Useful for humanizing liver via engraftment with human hepatocytes and/or humanizing immune system via engraftment of human immune cells/tissues or hematopoietic stem cells
- ▶ Inducible ablation of murine hepatocytes by ganciclovir treatment enables stable, long-term engraftment of human hepatocytes
- ▶ The premiere model for human liver toxicity, metabolism, and infectious disease

# Exclusive Immuno-Oncology Technologies

## PRODUCTS AND SERVICES

Traditional xenograft models are not suitable for immuno-oncology studies because they lack the relevant immune cell types. Taconic offers key animal models for immuno-oncology studies, including well-defined inbred strains for syngeneic studies and humanized immune system mice.

### STRAINS FOR SYNGENEIC STUDIES

- ▶ C57BL/6
- ▶ BALB/c
- ▶ C3H
- ▶ DBA/2
- ▶ B6.SJL-*Ptprc*<sup>a</sup>

Many models available at Opportunist Free or Excluded Flora health standards for co-housing with immunodeficient animals.

### GEMS FOR SYNGENEIC MODELING, ADOPTIVE CELL TRANSFER AND T CELL BIOLOGY

- ▶ B2MN12 (MHC Class I deficient)
- ▶ RAGN12 (B and T cell deficient)
- ▶ Rag2/OT-I (T cell receptor transgenic)
- ▶ Rag2/OT-II (T cell receptor transgenic)
- ▶ Jh (B cell deficient)
- ▶ Fc receptor knockouts

Many GEMs available on the C57BL/6NTac background for a broad portfolio of adoptive transfer partners.

### HOST FOR PATIENT-DERIVED XENOGRAPHS (PDX) AND CHIMERIC ANTIGEN RECEPTOR THERAPIES (CAR-T AND CAR-NK CELLS)

- ▶ NOG
- ▶ NOG-EXL (hGM-CSF/hIL-3 NOG)

- ▶ hIL-2 NOG
- ▶ hIL-6 NOG
- ▶ hIL-15 NOG

### HUMANIZED IMMUNE SYSTEM ENGRAFTED MICE

- ▶ huNOG (human hematopoietic stem cell (HSC) engrafted NOG)
- ▶ huNOG-EXL (HSC engrafted NOG-EXL)
- ▶ huPBMC-NOG (human peripheral blood mononuclear cell engrafted NOG)
- ▶ Cytokine transgenic NOG mice (hIL-2, hIL-6, hIL-15) may be humanized to study development of particular human immune cell types such as NK cells

### CUSTOM GEMs

Taconic GEMs Design provides advanced solutions for custom immuno-oncology models, including Humanized Knock-in Mice with Optional Conditional Knockout. Taconic's expertise includes targeted knockout and replacement of mouse coding sequences with human homologues to create genetically humanized immuno-oncology models for studying human targets such as checkpoint inhibitor receptors and more. Advanced solutions include partial humanization of single targets (e.g. receptor extracellular domains) or complete humanization of multiple targets (e.g. receptors and cognate ligand(s)). With a success rate of over 95%\*, count on Taconic's GEMs Design scientific team to successfully deliver high quality genetically humanized models for use in diverse applications such as syngeneic tumor models and off-target analysis. Please contact us to learn how to incorporate our unique technologies, experience and licensing advantages into your research pipeline. With ExpressMODEL™, Taconic can deliver your custom GEM model cohorts up to 33% faster.

\*Success rate defined as expression of the human allele at >50% of the expression of the corresponding mouse allele.

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# GEMs Design

## GENETICALLY ENGINEERED MOUSE AND RAT MODEL GENERATION

Developing the right model to deliver the right results.

Creating custom rodent models can be technically challenging, time-consuming, and expensive. When you need a custom model to take your research to the next level, Taconic has the experience and expertise to make sure it is done right, while saving you valuable time and resources.

### CUSTOM MICE TO FIT YOUR NEEDS



### TACONIC BIOSCIENCES HAS THE EXPERIENCE

With over twenty years of experience, Taconic is the global leader in custom model generation. Our goal is to leverage the right technology to deliver the right model, so that our customers can drive their research forward. To do this, Taconic combines the most comprehensive gene modification toolkit in the industry, with the exclusive ability to seamlessly progress model generation programs to contract

breeding. Fortifying this expertise is Taconic's long history of model generation innovation, including commercializing *in vivo* gene knockdown, being the first company to do CRISPR in both mice and rats, and being the first rodent model generation company to use robotic sample handling. The combination of history and expertise allows Taconic to successfully execute even the most difficult projects, including large insertions.

The model that Taconic generates for you belongs to you. Taconic is fully-licensed to provide all gene modification services and holds CRISPR licenses from both UC Berkley (via ERS Genomics) and the Broad Institute. Taconic also employs its own proprietary technology so that you may use and freely publish the results obtained with your custom model.

Being the only commercial provider of both model generation and breeding services allows Taconic to offer exclusive services like ExpressMODEL™, which can reduce the time to experimental cohort by up to four months.

Join the hundreds of companies and institutions that have turned to Taconic for knowledge and expertise, best-in-class cloning, commitment to quality, excellent project management, and integrated model generation and breeding capabilities.

<b>4000+</b>	<b>custom mouse models generated*</b>
<b>99+%</b>	<b>of projects successfully delivered*</b>
<b>90%</b>	<b>of projects delivered on time</b>
<b>20+</b>	<b>years of custom model generation experience</b>
<b>65+</b>	<b>years of breeding experience</b>

\* over the last - 10 years

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# GEMs Management

## SOLUTIONS TO COMPLEX CHALLENGES

Breeding is resource intensive and success is crucial.

At Taconic Biosciences, we work collaboratively with our clients. When it comes to breeding programs, our PhD scientists take the time to understand your research goals and harness Taconic's vast resources to help you achieve them. Leveraging Taconic's unmatched model repositories, advanced custom model generation capabilities, and flexible breeding solutions, our experts will craft a custom plan to produce the cohorts you need to attain your research goals.

Taconic was the first company to provide contract breeding. Taconic's 65 years of breeding experience, PhD scientific management, dedicated project management team, custom project plans, and agile project execution allows Taconic to provide customers with the best breeding solutions to drive their programs forward.

### PRIMARY SERVICES

- ▶ Breeding Solutions
- ▶ Rederivation
- ▶ Rapid Expansion
- ▶ Cryopreservation
- ▶ Molecular Analysis

### PROVEN QUALITY, UNMATCHED EXPERTISE

Taconic's experts have facilitated more than 15,000 projects. Our knowledgeable and experienced PhD scientists understand the challenges you face and are equipped to deliver a custom solution that accommodates your timeline and budget.

### THE TACONIC APPROACH

Taconic's unique approach to GEMs Management distinguishes us in the industry. Our Portfolio & Project Management strategy maximizes resources, improves efficiency, and produces results. A dedicated PhD Scientific Program Manager partners with you to understand your goals and develops a customized

breeding strategy based on your specific project requirements. This ensures efficient project management and continuous progress toward your goals. Your progress can be tracked 24/7 using our eTaconic portal, and our scientists are available to you for consultation on custom model generation, embryology, genetics and veterinary sciences.

### PORTFOLIO & PROJECT MANAGEMENT

Taconic's comprehensive and disciplined Portfolio & Project Management assures delivery of your cohorts on time and on budget.

- ▶ **Partnership:** Partnering with you is the cornerstone of Taconic's successful Portfolio & Project Management. Your Program Manager will work with you to define the scope of your project, develop a breeding plan, define a timeline, and establish a budget.
- ▶ **Transparency:** Taconic prides itself on being transparent with our customers, so that we can ultimately provide them with the best solution for their project. Your Program Manager will explain the methods and resources integral to your plan. You will know the possible risks and mitigation strategies before your project begins.
- ▶ **Teamwork:** Your dedicated team consists of your Scientific Program Manager, a Project Manager, and an array of subject matter experts.
- ▶ **Communication:** Your team keeps you informed through a customized communication plan.
- ▶ **Efficiency:** Regular financial and production reports allow us to suggest modifications that will optimize efficiency and contain costs. Based on our extensive experience, we have data that allow us to create accurate cost and timeline projections.

Partner with Taconic to design, develop, and breed high-quality humanized, CRISPR, and genetically engineered mouse and rat models.

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# GEMs Management

## SOLUTIONS TO COMPLEX CHALLENGES (CONTINUED)

Contact us today to discuss your goals with our scientists. Visit: [Taconic.com](https://www.taconic.com)

### FLEXIBLE CAPABILITIES AND SERVICES

Taconic's extensive range of services allows our team to create a customized breeding plan that addresses your specific needs and goals.

#### Animal Housing

- ▶ Multiple housing options to accommodate your timeline and budget, meet the health requirements of your research, and allow us to quickly import animals.

#### Molecular Analysis

- ▶ Comprehensive platform of genotyping and genetic analysis.
- ▶ Exclusive partnership with Transnetyx, the worldwide leader in rodent genotyping services.
- ▶ Partnership with Cergentis, providing Transgene Mapping Analysis.

#### Embryology and Cryopreservation

- ▶ Rederivation capabilities for multiple mouse and rat strains to reset a colony's health status.
- ▶ Rapid Expansion from donor animals or frozen material to quickly scale up your colony.
- ▶ Sperm and embryo cryopreservation in mice; embryo cryopreservation in rats.
- ▶ Cryorecovery of genetically engineered lines available for mice and rats.

#### Surgical Models and Services

- ▶ Telemetry implants for monitoring neurological data, temperature and activity in laboratory rodents.
- ▶ Portfolio of surgically altered rodent models that represent human disease.
- ▶ Catheterization and cannulations that allow repeated dosing and/or sampling.
- ▶ Tissue collection from any Taconic model or your model being bred at a Taconic facility.

#### Microbiome Products and Services

- ▶ Germ-free Black 6, Swiss Webster, and BALB/c mice.

- ▶ Microbiome Association Studies (including Fecal Microbiota Transplantation).
- ▶ Germ-free Derivations.

#### Health Monitoring

- ▶ International Health Monitoring System™ that surpasses FELASA guidelines.
- ▶ Select from six distinct health profiles for your project.
- ▶ Web-based reporting for convenient 24/7 access.

### SUBJECT MATTER EXPERTS

Our PhD scientists have real-world experience in breeding and the use of animal models in research. They specialize in the generation and breeding of genetically engineered mice and rats.

- ▶ **Scientific Program Manager:** Your Scientific Program Manager will be your scientific contact, responsible for ensuring your project design is positioned to reach breeding goals.
- ▶ **Project Manager:** Your dedicated Project Manager has been trained to have the skills and expertise to manage your project effectively. They will serve as your point of contact, responsible for monitoring, change control, and issue elevation on your project.
- ▶ **Genetic Sciences:** Your team of experienced scientists will review your breeding design to ensure accuracy and audit your project on a predetermined schedule.

### ELECTRONIC DATA MANAGEMENT

Taconic's secure portal, eTaconic, enables you to:

- ▶ Access current inventory and animal production data in real time via eTaconic.
- ▶ Access project design information, activity reports, and project specific documents.
- ▶ Access program and project specific reports in a variety of formats.



# Microbiome Research

## PRODUCTS AND SERVICES

Taconic Biosciences is leading the animal model industry in microbiome products and services and is the only commercial provider of germ-free mice.

### GERM-FREE MICE AVAILABLE OFF-THE-SHELF

- ▶ Black 6
- ▶ Swiss Webster
- ▶ BALB/c

### THE GERM-FREE SHIPPER

- ▶ The trusted source for shipping germ-free models worldwide for over 20 years

### MICROBIOME SERVICES

- ▶ Germ-free derivation
- ▶ Association of germ-free animals with specific microorganisms (including Fecal Microbiota Transplantation)
- ▶ Maintenance of associated colonies
- ▶ Germ-free rederivation of any commercial GEM

### APPLICATIONS

- ▶ Microbiology
- ▶ Physiology
- ▶ Immunology
- ▶ Metabolism
- ▶ Oncology
- ▶ Central Nervous System Disorders
- ▶ Inflammatory Bowel Disease

### EDUCATIONAL TOOLS

Taconic has decades of germ-free experience. We've put that experience on the record, with protocols and videos such as "Veterinary Care of Germ-Free Mice" and "Microbial Monitoring of GF Isolators" along with dozens of additional webinars and Insight blogs on the microbiome available online.

[www.taconic.com/microbiome](http://www.taconic.com/microbiome)



# The GEM Collection

## A TACONIC BIOSCIENCES REPOSITORY

Find your gene of interest in the GEM Collection —  
 A genetic mouse repository offered by Taconic Biosciences.

In collaboration with one of the world's largest pharmaceutical companies, Taconic now offers a growing collection of hundreds of proprietary Genetically Engineered Models exclusively to researchers worldwide.

Researchers studying functional and translational genetics benefit from the GEM Collection, as these models allow analysis of gene function in the context of the whole animal. The GEM Collection provides resources to study the effects of both loss (KO, cKO) and gain (Tg, TTG) of gene function.

### BENEFITS

- ▶ Live mice available within 14-16 weeks from time of order (recovery from frozen sperm or embryos)
- ▶ Clear terms of use and upon execution of the required terms of sale, include rights to use, breed, and crossbreed in perpetuity
- ▶ Most lines are congenic on the C57BL/6NTac inbred background, which avoids time-consuming backcross steps
- ▶ Validated genotyping protocols are available for each line
- ▶ No license fees
- ▶ All GEM Collection models available for germ-free derivation

Coupled with Taconic's core capability of custom breeding, the GEM Collection can provide research labs with the animals they need to rapidly produce study data, without the additional work and cost of animal colony production and maintenance. As an incentive to use Taconic's team of breeding experts, a 10% discount will be applied to the price of the model if bred and managed at Taconic.

### MODEL VALIDATION

These models have been carefully designed to obtain the optimal genetically engineered model for research. Having been validated by an industry leading pharmaceutical company, the GEM Collection allows research-

ers to skip the 1+ year timeline of model generation and development and quickly begin their studies after obtaining an MTA.

This repository represents an opportunity for qualified scientists to access a large collection of models that have been developed from years of genetic research.

Collectively, research from these models will provide valuable information on gene function that can impact human health.

### CURRENTLY AVAILABLE MODELS

- ▶ Constitutive (KO) Knock Out
- ▶ Conditional (cKO) Knock Out
- ▶ Transgenic (Tg) Overexpressing Lines
- ▶ Constitutive Targeted Transgenesis (TTG)
- ▶ Conditional Targeted Transgenesis (cTTG)

\*Some models are not available to for-profit institutions. Please see the specific model page for details.

### GETTING STARTED

**Search:** Visit [Taconic.com/find-your-model](https://taconic.com/find-your-model) to begin searching for your gene of interest.

**View:** Detailed allele diagrams for each line along with information about how it was generated.

**Learn About:** The terms of use, deliverables and timelines.

A GEM Collection Cryo recovery from frozen germplasm is \$4,900 (€ 4,165) for academic and non-profit institutions and \$30,000 (€ 25,500) for for-profit institutions. For-profit institutions are eligible for a 10% discount on multiple lines. Services such as rapid expansion and colony maintenance are available at additional cost.

**Inquire today for a quote.**



# EZcohort™ Models

Obtaining the right Genetically Engineered Models (GEMs) in a simple, fast, and transparent way is essential to drive your research program forward.

Accessing cryopreserved lines can be cumbersome. To provide customers with valuable animal models without the burden of lengthy legal negotiations and undefined deliverables Taconic Biosciences has created the EZcohort™ models collection to ensure easy access to a select group of GEMs. EZcohort™ models are distributed under clear terms of use and **include rights to use, breed, and crossbreed in perpetuity.**



## EASY ACCESS MEANS STARTING YOUR PROJECT SOONER

Purchasing EZcohort™ models is fast and easy. Sign simple terms of sale and send in with a PO. It's just that easy.

### The Deliverable

You receive a cohort of 4 mutants (at least heterozygous for all alleles) within 14-16 weeks of placing your order to jump-start your breeding colony.

Need more mice to start your research? **Contact us.**

Receiving breeders is just the start. Every EZcohort™ order comes with accompanying support material. Upon purchase, you receive a colony maintenance instruction pack that includes:

- ▶ PCR genotyping protocol and links to genotyping outsource options
- ▶ Mating instructions and historical breeding performance data
- ▶ SNP testing resources and advice to monitor genetic drift

## HIGHLIGHTED EZcohort™ MODELS:

- |                                    |                           |
|------------------------------------|---------------------------|
| ▶ $\beta$ -actin-luc - Model 10498 | ▶ Humanized PXR Mouse     |
| ▶ $\beta$ -actin-luc - Model 10500 | ▶ Humanized PXR-CAR Mouse |
| ▶ Abb (H2-Ab1) - Model 4026        | ▶ IL15 Knockout           |
| ▶ B2m ( $\beta$ 2m)                | ▶ Mrp1                    |
| ▶ B6 Albino A++                    | ▶ Mrp2                    |
| ▶ Car Knockout Mouse               | ▶ Pfp/Rag2                |
| ▶ Cyp2c Knockout Mouse             | ▶ Pxr Knockout Mouse      |
| ▶ H2-D <sup>b</sup>                | ▶ Rag2 - Model 461        |
| ▶ Humanized AHR Mouse              | ▶ TSG-p53® - Model P53N12 |
| ▶ Humanized CAR Mouse              |                           |

New EZcohort™ models are added frequently, check our website for current offerings: **Taconic.com**

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# Taconic Knockout Repository

The Taconic Knockout Repository's 4,000+ KO lines provide academic and commercial researchers worldwide with unparalleled access to fully licensed, knockout mouse models.

Our repository offers the scientific community immediate access to expertly derived, highly valuable research tools that rapidly accelerate translational research and the drug discovery and development processes. Eliminating the time associated with the design and development of these proven mouse models provides a tremendous competitive advantage.



## DELIVERABLES

The KO Repository lines exist as cryopreserved materials. Cohorts can typically be produced and delivered to the customer within 14-16 weeks of order receipt. For most lines, the mouse ES cells used in generating the model are of the 129S5 strain. Lines are stored primarily as cryopreserved sperm on a mixed 129S5 x C57BL/6J-*Tyr<sup>c-Brd</sup>* background. Lines are recovered using cryopreserved sperm and C57BL/6NTac oocyte donors. Some lines are stored as cryopreserved embryos and when revitalized will result in a 129S5 x C57BL/6J-*Tyr<sup>c-Brd</sup>* background.

For standard orders clients will receive:

- ▶ A minimum of four (4) mutant mice, heterozygous for the selected mutation, on a mixed 129S5;B6 background
- ▶ Clear terms of use and upon execution of Taconic's terms of sale, include rights to use, breed, and crossbreed in perpetuity
- ▶ Validated genotyping protocols
- ▶ Animal health data

## PRICING FOR TACONIC KNOCKOUT REPOSITORY

	Price per line	Price per line for comprehensive phenotype data
For-profit	\$20,000* €17,000	\$10,000 €8,500
Non-profit	\$15,000 €12,750	\$8,000 €6,800

**Basic Phenotype Package:** \$5,000 (€4,250)

\*A 10% discount will be applied if the model is bred and managed by Taconic's team of breeding experts.

\*A 10% discount will be applied to the purchase of more than one line per fiscal year.

# Health Standards

## HEALTH QUALITY PROGRAM

Taconic Biosciences' clear and harmonized health standards free you from time-consuming review of health reports from individual locations.

Simply determine which health standard meets your needs and order animals at that standard. There is no need to specify individual location or review colony health reports for most orders.

Taconic health standards are defined by exclusion lists and husbandry as well as testing methods and frequency. The standards can be grouped into barrier standards (with exclusion lists) and gnotobiotic isolator standards (in which all organisms in a location are known). A core list of rodent pathogens is excluded from all Taconic health standards.

## BENEFITS

- ▶ Most available options for health standards among all vendors
- ▶ Only company to provide global harmonization of health standards and true gnotobiotic profiles
- ▶ Sole vendor to test and report on Segmented Filamentous Bacteria (SFB)

## WHAT IS SEGMENTED FILAMENTOUS BACTERIA?

Segmented Filamentous Bacteria (SFB) are gram-positive, spore-forming bacteria that were originally identified in the ilia of mice and rats. SFB is not a pathogen, but it does have a role in influencing development of the host immune system. Many disease models are now known to be impacted by the gut microbiome. Reproducibility is always a challenge in animal models, especially ones that may be influenced by the gut flora. To help researchers make better decisions about the animals they use in their studies, Taconic strives to provide as much information as possible about its models. While SFB is only one component of the gut microbiome, for many models the impact could be significant. For that reason, Taconic includes SFB on its health reports and SFB is specifically excluded in its EF health status.

## BARRIER HEALTH STANDARDS

Applied to the majority of animals produced by Taconic.

### **Murine Pathogen Free™ (MPF™)**

Free of rodent pathogens. Appropriate for many types of experiments and may be preferred for certain immunological studies.

### **Restricted Flora™ (RF™)**

Free of rodent pathogens and 6 select opportunistic pathogens. Note that Taconic is phasing out most RF™ production in the US and Europe in favor of OF™ and EF.

### **Opportunist Free™ (OF™)**

Free of rodent pathogens and 7 select opportunistic pathogens.

### **Excluded Flora (EF)**

Free of rodent pathogens and 7 select opportunistic pathogens as well as Segmented Filamentous Bacteria, a normal rodent commensal organism shown to impact immune system development.

## GNOTOBIOTIC ISOLATOR STANDARDS

Applied to limited quantities of special purpose animals.

### **Defined Flora (DF)**

Only permitted microorganisms are Altered Schaedler Flora, dimorphic yeast, mold, aerobic spore forming bacteria and anaerobic spore forming bacteria. No excluded pathogens are allowed. All organisms in isolator are known.

### **Germ Free (GF)**

Devoid of all microorganisms, as determined within the limitations of the detection methods available, including bacteria, fungi, and viruses; they have no microbiome.

# Health Standards

## CONTINUED

Agents	Murine Pathogen Free™ (MPF™)	Restricted Flora™ (RF™)	Opportunist Free™ (OF™)	Excluded Flora (EF)	Defined Flora (DF)	Germ Free (GF)
<b>Microorganisms</b>	Accepted?	Accepted?	Accepted?	Accepted?	Accepted?	Accepted?
<b>Commensal Microflora</b>						
Altered Schaedler Flora	Yes	Yes	Yes	Yes	Yes	No
Dimorphic Yeast	Yes	Yes	Yes	Yes	Yes	No
Mold	Yes	Yes	Yes	Yes	Yes	No
Aerobic spore forming bacteria	Yes	Yes	Yes	Yes	Yes	No
Anaerobic spore forming bacteria	Yes	Yes	Yes	Yes	Yes	No
Non-spore forming rod bacteria	Yes	Yes	Yes	Yes	No	No
Cocci bacteria	Yes	Yes	Yes	Yes	No	No
<b>Viruses</b>						
Kilham Rat Virus (KRV)	No	No	No	No	No	No
Minute Virus of Mice (MVM)	No	No	No	No	No	No
Mouse Encephalomyelitis Virus (GDVII)/ Rat Theilovirus (RTV)	No	No	No	No	No	No
Mouse Hepatitis Virus (MHV)	No	No	No	No	No	No
Murine Norovirus (MNV)	No	No	No	No	No	No
Mouse Parvovirus (MPV)	No	No	No	No	No	No
Mouse Rotavirus (EDIM)	No	No	No	No	No	No
Pneumonia Virus of Mice (PVM)	No	No	No	No	No	No
Rat Coronavirus (RCV)/Sialodacryoadenitis Virus (SDAV)	No	No	No	No	No	No
Rat Minute Virus (RMV)	No	No	No	No	No	No
Rat Parvovirus (RPV)	No	No	No	No	No	No
Toolan's H1 Virus (TH1)	No	No	No	No	No	No
Ectromelia Virus	No	No	No	No	No	No
Hantaan Virus	No	No	No	No	No	No
K Virus	No	No	No	No	No	No
Lymphocytic Choriomeningitis Virus (LCM)	No	No	No	No	No	No
Mouse Adenovirus I and II (FL and K87)	No	No	No	No	No	No
Mouse Cytomegalovirus (MCMV)	No	No	No	No	No	No
Polyoma Virus	No	No	No	No	No	No
Reovirus (Reo 3)	No	No	No	No	No	No
Sendai Virus	No	No	No	No	No	No
Thymic Virus	No	No	No	No	No	No
Lactate Dehydrogenase Elevating Virus (LDHV)	No	No	No	No	No	No
<b>Bacteria, mycoplasma, fungi</b>						
Beta hemolytic Streptococcus (non Group D)	Yes	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No	No
Bordetella bronchiseptica	No	No	No	No	No	No
Cilia Associated Respiratory Bacillus (CARB)	No	No	No	No	No	No
Citrobacter rodentium	No	No	No	No	No	No
Clostridium piliforme	No	No	No	No	No	No
Corynebacterium bovis <sup>2</sup>	N/A	No	No	No	No	No
Corynebacterium kutscheri	No	No	No	No	No	No
Helicobacter spp.	No	No	No	No	No	No
Klebsiella oxytoca	Yes	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No	No
Klebsiella pneumoniae	Yes	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No	No
Mycoplasma pulmonis	No	No	No	No	No	No
Pasteurella multocida	Yes	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No	No
Pasteurella pneumotropica	No	No	No	No	No	No
Pneumocystis spp.	No	No	No	No	No	No
Proteus spp.	Yes	Yes	No <sup>1</sup>	No <sup>1</sup>	No	No
Pseudomonas aeruginosa	Yes	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No	No
Salmonella spp.	No	No	No	No	No	No
Staphylococcus aureus	Yes	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No	No
Streptococcus pneumoniae	No	No	No	No	No	No
Segmented Filamentous Bacteria (SFB)	Yes	Yes	Yes	No <sup>1</sup>	No	No
Streptobacillus moniliformis	No	No	No	No	No	No
<b>Parasites</b>						
Endoparasites	No	No	No	No	No	No
▸ Encephalitozoon cuniculi	No	No	No	No	No	No
Ectoparasites	No	No	No	No	No	No
Enteric Helminths	No	No	No	No	No	No

<sup>1</sup> When detected, this organism will be eliminated from the Barrier Unit via a test and cull procedure or recycling of the colony.

<sup>2</sup> Testing not performed in MPF™ colonies.

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# Health Standards

## CONTINUED

### International Health Monitoring System™ (IHMS™)

Testing frequency, methodology, and sample number is based on an assessment of biosecurity and risk level, and varies depending on whether the location uses static or individually ventilated caging (IVC) or is isolator-raised. Taconic Biosciences is transitioning all RF™, OF™, and EF locations to IVCs. IVCs are more biosecure, but pose some diagnostic challenges, which Taconic addresses through additional testing elements. Taconic has designed a multifaceted testing program in which agents of highest concern are screened using different methodologies to increase the likelihood of accurate and rapid detection.

#### CORE TESTING PROGRAM

Predominantly sentinel-based health testing comprised of virus detection, full bacteriology, and parasitology. Core testing occurs in ALL Taconic production locations. Agents are typically tested quarterly in gnotobiotic isolators (GF/DF standards) and IVC locations (some RF™, OF™, and EF colonies) or monthly (static cage RF™, OF™, EF colonies), but this varies by agent.

#### OPPORTUNIST SCREENING

Monthly culture-based screening to detect non-tolerated opportunists at the RF™, OF™, and EF standards.

#### IVC PCR TESTING

Additional cage level testing of line animals via PCR in locations using IVC housing. This added screening

uses a different test methodology from the core testing program to enhance the overall detectability of key agents and is designed to address the challenge of animal health monitoring in IVCs.

#### IVC EXHAUST AIR DUCT TESTING

Screening of the exhaust air from IVC cages to provide a snapshot of all cages on a rack. This method is particularly well suited to detection of certain agents. PCR testing is performed on total nucleic acids extracted from the exhaust air duct (EAD) filter on each IVC rack. This testing is performed quarterly on each rack.

#### ISOLATOR MICROBIAL MONITORING

Culture-based screening to detect bacterial and fungal contamination of gnotobiotic isolators (aerobic and anaerobic culture).

#### 16S BACTERIAL RNA SCREENING

16S PCR screening in Germ Free isolators to detect bacterial RNA. Testing is performed on pooled fecal samples from each isolator on a monthly basis.

### IHMS™ TESTING AND HEALTH STANDARDS

	Core Testing Program	Opportunist Screening	IVC PCR Testing	IVC Exhaust Air Duct Testing	Isolator Microbial Monitoring	16S Bacterial RNA Screening
MPF™	Yes	N/A	N/A	N/A	N/A	N/A
RF™, OF™, EF (static caging locations)	Yes	Yes	N/A	N/A	N/A	N/A
RF™, OF™, EF (IVC locations)	Yes	Yes	Yes	Yes	N/A	N/A
DF	Yes	N/A	N/A	N/A	Yes	N/A
GF	Yes	N/A	N/A	N/A	Yes	Yes

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# Genetic Integrity and Model Harmonization

Taconic's pledge to provide laboratory mice and rats of the highest possible health integrity is only part of our overall quality commitment to our customers.

Taconic likewise has in place major quality-control programs in genetic integrity and strain harmonization. These two programs ensure, respectively, that our animals are genetically pure and that animals obtained from one Taconic site are as closely related as possible to those obtained from other Taconic sites. Our Genetic Monitoring and Colony Management Harmonization Programs allow us to achieve these two fundamental quality-control goals.

## COLONY MANAGEMENT HARMONIZATION PROGRAM

### Inbred Strains:

The typical structure of breeding colonies for inbred strains of mice and rats at Taconic can be represented as a pyramid. The colonies are designed to avoid accidental crossbreeding, to minimize genetic drift, and to prevent the development of potentially genetically distinct sub-strains. At the top of the pyramid is the relatively small Foundation Colony (FC), shown here as being derived from a pair of genetically tested Common Ancestors. At the base

of the pyramid is the large Production Colony (PC), and in between are the two types of expansion colonies, the Pedigreed Expansion Colony (PEC) and the Expansion Colony (EC).

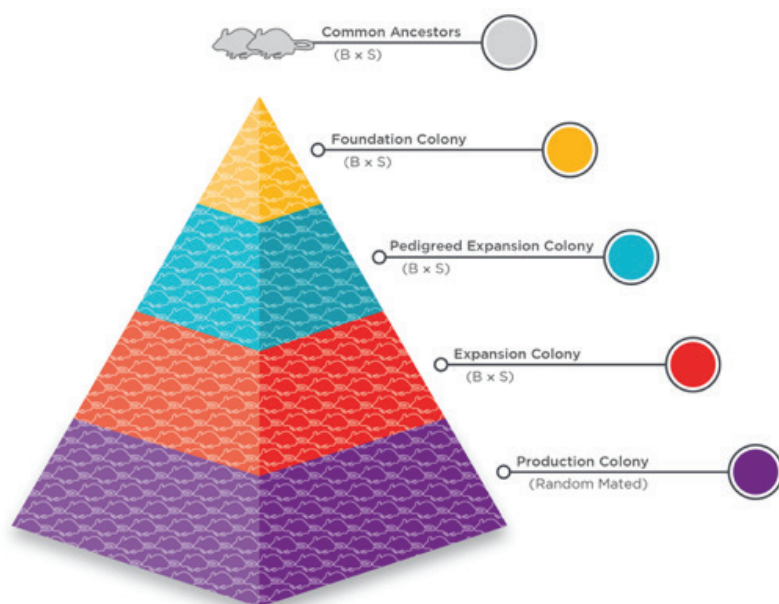
The FC is the only self-perpetuating colony (i.e. it produces its own new breeders), is cryorecovered from frozen embryos, and all matings are brother x sister (BxS). The Pedigreed Expansion Colony is an extension of the Foundation Colony and receives all of its breeders from it; all matings in the PEC are also BxS. The PEC produces breeders for the Expansion Colony (EC), where Taconic once again utilizes BxS matings. The EC produces breeders for the Production Colony (PC), where random mating is utilized to scale up breeding for production of animals that will be shipped to customers. Consequently, inbred mice or rats obtained from Taconic's Germantown PC are in most cases not more than five BxS generations removed from the Foundation Colony.

This standard pyramid management plan, when strictly adhered to, minimizes the risk of genetic drift even when multiple PCs are maintained at geographically distinct production sites. This strain harmonization is evident for all Taconic production sites. Each site has its own PEC, but standard operating procedures require that the site receive a new PEC from the Germantown FC every two years (approximately every four generations). Thus, no animal supplied from Taconic production sites can be more than 10 BxS generations removed from the strain's current Foundation Colony.

The pyramid colony-management program, combined with these geographic harmonization practices, assures Taconic's customers, for example, that a C57BL/6NTac mouse purchased from our Indiana production facility is as similar as is possible to a C57BL/6NTac mouse purchased from all other Taconic production facilities worldwide.

### Outbred Stocks:

For outbred stocks it is imperative to preserve the heterozygosity of the model. In order to do that Taconic breeds its outbred stocks following the Pooley system (Pooley, Proc. Anim. Care Panel, 1960). This breeding system minimizes the set-up of genetically related individuals and maintains the heterozygosity of the colony. Taconic has harmonized the source and



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# Genetic Integrity and Model Harmonization

## CONTINUED

production of its outbred stocks globally, so that they all have the same level of heterozygosity. This is monitored on a yearly basis by SNP testing, monitoring that heterozygous markers are maintained and that gene frequencies are similar across all breeding colonies globally.

## GENETIC MONITORING PROGRAM

Genetic monitoring is key to quality control of the breeding and production of inbred and transgenic lines of laboratory mice and rats. Taconic has established numerous production procedures that minimize the risk of genetic contamination. Our Genetic Monitoring Program is grounded in the identification of points in the production program where there is a higher risk of an undetected accidental mating or strain misidentification. By focusing genetic screening methods on these critical high-risk points, while scrutinizing quality control throughout, a genetic monitoring program can prevent a single mistake from becoming catastrophic.

Taconic's overall Genetic Monitoring Program is based on a combination of three strategies:

1. Visual characteristics of strains (most notably, coat color)
2. Production procedures that minimize co-localization and/or movement of strains of similar colors and that promote careful record keeping and strain segregation
3. Standard operating procedures outlining DNA-based marker and/or protein testing of animals at specific, defined, potentially risky points in the production process.

## CRYOPRESERVATION OF TACONIC STRAINS

To avoid genetic drift, Taconic has embryos cryopreserved from strains and stocks that it provides. Taconic refreshes all inbred stocks every 5 years or 10 generations, whichever comes first.

## TACONIC PRODUCTION HARMONIZATION

- ▶ **Inbred Production:** Taconic has only one Foundation Colony that provides breeders to all subsequent colonies, including all global partners. This assures that all animals produced by Taconic and its partners are genetically harmonized.
- ▶ **Outbred Stocks:** All outbred stocks originate from a nucleus stock and are bred following Pooley's outbred breeding scheme.

## GENETIC TESTING PROGRAM

Taconic currently uses Single Nucleotide Polymorphisms (SNPs) and genotyping in its Genetic Monitoring Program to monitor genetic background. More specifically, the program uses the Illumina platform and has developed several SNP Panels for Genetic Monitoring of rats and mice, including a 2050 SNP Panel that differentiates among the most used inbred strains, a 257 SNP Panel that differentiates among C57BL/6NTac, C57BL/6J and C57BL/6JBomTac substrains, and a rat SNP Panel with over 750 SNP markers that can be used for speed congenic backcrosses in addition to strain background characterization. Taconic also uses genotyping through Taqman PCR, qPCR or capillary electrophoresis PCR, and in some cases phenotyping data (flow cytometry) to verify that the pertinent protein is made.

### Inbred Strains:

- ▶ **Foundation Colonies:** All Foundation Colonies are characterized with SNP marker Panels: 2050 SNP markers for mice and 759 SNP markers for rats. The SNP profile obtained is compared and verified with the line's historical information.
- ▶ **Genetic Monitoring Program:** A genetic monitoring program tests a subset of breeders to verify genetic quality. This testing is performed on a monthly basis and it is reported on our website. The SNP Panel used

# Genetic Integrity and Model Harmonization

## CONTINUED

for this is a 98 SNP Genetic Monitoring panel that distinguishes among all the genetic backgrounds Taconic produces. In addition, inbred strains are assessed using the 2050 SNP panel on a yearly basis.

- ▶ **Genotyping:** In addition to genetic background monitoring, if the inbred strain carries a spontaneous mutation, its presence is verified.

### Outbred Stocks:

- ▶ **Genetic Monitoring Program:** All of Taconic's outbred stocks are tested at least once a year or, if there is genetic risk, more often. Genetic monitoring SNP Panels for mice and rats (98 SNPs for mice, 96 SNPs for rats) is used to monitor the level of heterozygosity of the different colonies and make sure that it is consistent among all production barriers.
- ▶ **Genotyping:** In addition to genetic background monitoring, if the outbred stock carries a spontaneous mutation, its presence is verified.

## GENETICALLY ENGINEERED MODELS

- ▶ **Bringing a New GEM into Taconic:** When a new model is brought to Taconic for commercial distribution, all genetic documentation is verified:
  - ▶ **Genetic background:** SNP profile characterization
  - ▶ **Generation number:** Historical information of matings including backcrosses and intracrosses

- ▶ **Type of genetic modification:** Targeted mutagenesis, CRISPR/Cas 9 modifications and random transgenic
- ▶ **Adverse phenotypes:** History of adverse phenotypes
- ▶ Other characteristics
- ▶ **Colony Breeding:** During barrier production the model is mated using the most efficient mating format in order to comply with the 3Rs (Replacement, Reduction and Refinement)
- ▶ **Genotyping and Genetic Background Testing**
  - ▶ All GEM models commercially available have a defined SNP profile in order to characterize the genetic background of the model.
  - ▶ Genotyping includes testing for the mutation, determination of the mutation zygosity if it is a transgene, and verification of protein expression in some models.

## GENETIC MONITORING REPORTS

Depending on the genetic risk of the colony in a particular location, Taconic determines the frequency and number of samples tested. However, colonies that have no genetic risk are tested at least on a yearly basis.



# Animal Genotyping Codes

Taconic Genotyping Code	Interpretation	Taconic Abbreviation
wt/wt	wild type	WT
ko/wt	heterozygous knockout allele	HET
ko/ko	homozygous knockout allele	HOM
ki/wt	heterozygous knock-in allele	HET
ki/ki	homozygous knock-in allele	HOM
hu/wt	heterozygous humanized allele	HET
hu/hu	homozygous humanized allele	HOM
fl/wt	heterozygous allele flanked by recombination sites	HET
fl/fl	homozygous allele flanked by recombination sites	HOM
tm/wt	heterozygous targeted allele	HET
tm/tm	homozygous targeted allele	HOM
tg/wt	heterozygous random transgene	HEMI
tg/tg	homozygous random transgene	HOM
tg/?	random transgene: unknown whether present as heterozygous or homozygous	CAR
* /y	hemizygous allele (any allele on X chromosome)	HEMI
ko1/ko2	knockout1/knockout2 alleles (two different knockout alleles)	COMP
ki1/ki2	knock-in1/knock-in2 alleles (two different knock-in alleles)	COMP
hu1/hu2	humanized1/humanized2 alleles (two different humanized alleles)	COMP
fl1/fl2	flanked1/flanked2 alleles (two different flanked alleles)	COMP
ko/tm	knockout/targeted alleles	COMP
ki/ko	knock-in/knockout alleles	COMP
ki/tm	knock-in/targeted alleles	COMP
hu/ko	humanized/knockout alleles	COMP
hu/ki	humanized/knock-in alleles	COMP
hu/tm	humanized/targeted alleles	COMP
fl/ko	flanked/knockout alleles	COMP
fl/ki	flanked/knock-in alleles	COMP
fl/hu	flanked/humanized alleles	COMP
fl/tm	flanked/targeted alleles	COMP
ko_tm/wt or ko_fl/wt or ko_ki/wt or ko_hu/wt	heterozygous knockout allele, with residual presence of targeted, flanked, knock-in or humanized allele due to incomplete deletion	INCHET
ko_tm/ko_tm or ko_fl/ko_fl or ko_ki/ko_ki or ko_hu/ko_hu	homozygous knockout allele, with residual presence of targeted, flanked, knock-in or humanized allele due to incomplete deletion	INCHOM
ki_tm/wt or ki_fl/wt	heterozygous knock-in allele, with residual presence of targeted or flanked allele due to incomplete deletion	INCHET
ki_tm/ki_tm or ki_fl/ki_fl	homozygous knock-in allele, with residual presence of targeted or flanked allele due to incomplete deletion	INCHOM
hu_tm/wt or hu_fl/wt	heterozygous humanized allele, with residual presence of targeted or flanked allele due to incomplete deletion	INCHET
hu_tm/hu_tm or hu_fl/hu_fl	homozygous humanized allele, with residual presence of targeted or flanked allele due to incomplete deletion	INCHOM
fl_tm/wt	heterozygous allele flanked by recombination sites, with residual presence of targeted allele due to incomplete deletion	INCHET
fl_tm/fl_tm	homozygous allele flanked by recombination sites, with residual presence of targeted allele due to incomplete deletion	INCHOM
enu/wt	heterozygous chemically induced mutant allele	HET
enu/enu	homozygous chemically induced mutant allele	HOM
sp/wt	heterozygous spontaneous mutation	HET
sp/sp	homozygous spontaneous mutation	HOM
NDEL*	CRISPR/Cas9-modified allele; unknown, whether modification is an insertion or deletion	NDEL
DEL*	CRISPR/Cas9-modified allele carrying a deletion; exact sequence of the modification is unknown	DEL
HDR*	CRISPR/Cas9-modified allele by homology-directed repair (HDR); exact sequence of the modification is unknown	HDR

**Notes:**

fl "flanked allele" describes alleles flanked by recombination sites, such as loxP or FRT sites.

\* These are not proper genotyping codes but are interim notations assigned to Founder animals from CRISPR/Cas9 projects to indicate the type of manipulation and the nature of potential mosaicism.

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# Animal Shipping Products

Taconic's animal shipping products are available to our clients for their own use.

## TACONIC TRANSIT CAGE™

Taconic ships its mice and rats in the sterilized TTC™. This includes packing the animals within their respective barrier colonies thereby minimizing the risk that a pathogenic contamination may occur between the animal's barrier environment and your receiving area. Commercial mice and rats are packed in the TTC™ in accordance with prescribed densities.

The Taconic Transit Cage™ (TTC™) provides the optimal shipping environment for today's sophisticated rats and mice. Taconic uses the TTC™ for its own commercial animal shipments and makes it available to you for your own shipment needs.

Features of the TTC™:

- ▶ The outside dimensions are 22" (long) by 16" (wide) by 7" (deep).
- ▶ The top rim of the lid is recessed, allowing for easier removal.
- ▶ Ribs are extended making it easier to insert and remove dividers.
- ▶ A bar below the tie holes makes it easier to access for cutting.
- ▶ The Taconic Transit Cage™ (TTC™) is designed and constructed to afford the utmost safety and security for delivery of animals. Field tests have proven that the TTC™ is capable of protecting mice and rats from contamination by murine viruses. The cage and lid are constructed of molded polypropylene #5 plastic for high durability and resistance to gnawing by rodents.
- ▶ Sloped sides, stacking mounts and air vents on the sides and lid allow sufficient air flow around the cage for proper ventilation. The filter material is spun-bonded polypropylene media which provides optimum strength; the continuous filaments in the media prevent tearing and slipping. All materials are autoclavable and washable in high temperature cage washers.

- ▶ The TTC™ is easily opened by lifting the lid upward from the front handle.
- ▶ Security ties ensure that the cage is not opened during transit.

## DIVIDERS

Dividers are available and can be used to easily divide the TTC™ into 2, 3, or 4 compartments.

## THE GERM-FREE SHIPPER

Taconic has designed and constructed a germ-free shipper for delivery of germ-free animals. These animals are devoid of all microorganisms (as determined within the limitations of the detection methods available), including bacteria, fungi and viruses. The germ-free shipper preserves the germ-free health status of the animals during shipping.

The germ-free shipper is a large, flexible vinyl sleeve with filtered openings and an accompanying case. The sleeve measures approximately 12 inches in diameter and 3.5 feet in length. Up to three animal cages (11.5" x 7.5" x 5") can fit in the sleeve.

## PLACING ANIMALS INTO A GERM-FREE SHIPPER

Germ-free animals at Taconic are housed in isolators that follow strict gnotobiotic techniques for entry of animals and autoclaved supplies. To move animals from an isolator to a germ-free shipper takes careful maneuvering. One end of the shipper sleeve is connected to the isolator and empty animal cages (pre-positioned in the shipper) are carefully moved from the shipper to the isolator.

The animals located in the isolator are placed into the cages in accordance with prescribed densities. The cages are then moved back into the germ-free shipper, which is then disconnected from the isolator and sealed. The animals are never exposed to outside air; only filtered isolator air and then air from the filtered opening of the germ-free shipper.

# Animal Shipping Products

## CONTINUED

Once animal cages have been placed in the germ-free shipper, the shipper is placed in a clear plastic box for transport to its destination. See below for instructions on how to correctly remove the animals from the germ-free shipper.

Orders for the germ-free shipper itself are fulfilled with pre-sterilized shippers. No additional sterilization is required upon receipt.

Watch the Taconic video "Flexible Film Isolator Demonstration" at [taconic.com](http://taconic.com) to see a detailed demonstration.

## NUMBER OF MICE PACKED PER GERM-FREE SHIPPER

Up to three animal cages (11.5" x 7.5" x 5") can fit in the sleeve of a germ-free shipper.

- ▶ 24 at 3-4 weeks (8 per cage)
- ▶ 21 at 5 weeks (7 per cage)
- ▶ 21 at 6 weeks (7 per cage)
- ▶ 18 at 7 weeks (6 per cage)
- ▶ 15 at 8 weeks and older (5 per cage)

## REMOVAL OF ANIMALS FROM A TACONIC GERM-FREE SHIPPER

**Note:** This procedure is easier to perform with two people.

1. Withdraw vinyl shipper from the plastic shipping carton. Use care to keep cages and oval filter upright.
2. Open end of connecting sleeve:
  - ▶ Unfold sleeve and remove yellow vinyl tape that was folded and sealed prior to shipment.
  - ▶ When open, the sleeve is compatible with a standard 12" diameter isolator port.
3. Swab inside of sleeve and the face of the Mylar diaphragm with a sterilant using caution to not apply too much pressure to Mylar diaphragm.
4. Pull sleeve partway onto the swabbed port of the destination isolator. Secure the shipper sleeve to the port with tape, making a complete tape seal of the shipper to the destination isolator port. Ensure that half of the tape is on the shipper sleeve and half of the tape is on the port.
5. Remove plug from nipple on germ-free shipper sleeve. Place nozzle of sterilant atomizer against nipple and spray sleeve portion of shipper with sterilant to give a balloon-like effect until the sleeve is inflated. Quickly replace plug into nipple, maintaining sterilant positive pressure.
6. After the appropriate contact time for the sterilant, ensure that isolator port cap remains bubbled in toward isolator interior, ensuring that sleeve-port connection is not breached. Next remove the exterior yellow tape from the circumference of the Mylar diaphragm.
7. Carefully work the Mylar diaphragm within the germ-free shipper to a horizontal position (using external manipulation).
8. From within isolator, remove isolator port cap. Pull the Mylar diaphragm through the port and into the isolator.
9. Rotate the cages within the shipper and slide toward the isolator port (using external pressure).
10. Pull in cages and remove the bands that are securing the cage lids.
11. Have a sterile vial with a small amount (1-2 ml) of sterile water in it ready for sample collection. Dip a sterile swab into the vial and dampen it with water. Swab several of the animals' coats and the interior of the cage; place the swab into the vial. Collect feces and a small amount of bedding from the cage and place it in the vial with the swab and water. Transport the vial to your laboratory and test for all aerobic and anaerobic growth according to standard procedures.
12. Remove the animals and place in isolator caging.
13. Replace isolator port cap. Remove germ-free shipper from exterior port.

# Animal Shipping Products

## CONTINUED

Please contact Customer Service directly to order our Animal Shipping Products.

### TACONIC TRANSIT CAGE™ PRICING

Item Number	Description	Price (1-49 units)	Price (50+ units)
CON_TTC_CLR	TTC™ with standard clear lid	\$39.00 €41.00	\$35.10 €36.90
CON_TTC_CLRHIGH	TTC™ with clear high profile lid	\$39.00 €41.00	\$35.10 €36.90

### TACONIC TRANSIT CAGE™ PARTS

Item Number	Description	Price
CON_LABEL	Live Animal Labels	\$11.00 €9.00
CON_GEL	Gel Pack (8 oz.)	\$6.00 €11.00
CONHI_DIV	Plastic Dividers - High Lid	\$6.00 €7.00
CON_DIV	Plastic Dividers - Low Lid	\$6.00 €7.00
CON_SEC_TIES	Security Ties (pkg of 100)	\$10.00 €8.00
CON_TTC_BOT	Cage Bottom with Filter	\$17.00 €19.00
CON_TTC_LO/CL	Lid with Low Filter	\$18.00 €19.00
CON_TTC_HI/CL	Lid with High Filter	\$18.00 €19.00

### GNOTOBIOTIC EQUIPMENT PRICES

Item Number	Description	Price
CON_GF	Germ-free Shipper	\$724.00 €573.00

Pricing of germ-free shipper when shipped with Taconic germ-free animals:

\$362.00  
€282.00

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# Ordering Information

## ORDERING TACONIC PRODUCTS

### SHIPMENT CONTAINERS

Rat and mouse models are packed in their barrier unit of origin or laminar flow hoods and shipped in sterilized Taconic Transit Cages™ (TTC™) with a food and hydration source.

Germ-free animals are packed in special germ-free shippers.

### ORDERS REQUIRING ANIMALS OF A SPECIFIC WEIGHT

Mice and rats can lose up to 10% of their body weight in transit, however after 48 hours acclimation most models can be expected to regain any weight lost in shipment.

Taconic will select animals within a typical weight range for its corresponding age at no additional charge. Weight charts are provided as a guide.

All weights are weights at the time of packing.

Orders for specific weight spans take additional time to select and pack and as such will be assessed a nominal fee of \$1.50 or €1.00/animal. This fee will not apply to Sprague Dawley® rats except when the span is less than 25 grams.

Mice can be ordered with a minimum 3 gram span (i.e. 10-13 grams) and rats with a minimum 10 gram span (i.e. 200-210 grams).

Taconic cannot accommodate orders for cagemates with a weight specification.

### BIRTH DATES

Week of birth and source barrier unit identification are provided on shipping labels. For exact "date of birth" requests on Traditional Models, place orders prior to the needed birth date.

Week of birth (Date of birth +/- 3 days): No Charge

Exact date of birth: \$5.00 or €5.75/animal (for Murine Pathogen Free™ traditional models. Please inquire for pricing for other models or health designations.)

### RETIRED BREEDERS

Orders for retired breeders are filled from live breeding colonies. As such, female retired breeders may be pregnant at time of shipment.

Taconic may be able to fill requests for guaranteed non-pregnant retired breeders; this would be at a higher price than the posted retired breeder price.

Retired breeders will vary in age and are sourced both from older animals at the end of their scheduled breeding time as well as younger breeders which are non-productive. It is not possible to request retired breeders of a specific age. Information on the specific week of birth is not available for retired breeders, but a month of birth can be provided upon request.

### FEMALES WITH LITTER

Taconic offers female breeders with litters for some lines. Note that most lines are harem bred. Female with litter orders are filled using litters from Production Colony breeders. In most cases, the litter is selected and shipped with a female breeder from the same box. This is a lactating female, but is not necessarily the biological dam for that litter. In some cases, litters are selected and shipped with a lactating female from another breeding box. Requests for females with litters using the biological dam cannot be accommodated for all lines; when biological dams are requested, this may limit the size of litters and require an additional fee.



# Ordering Information

## CONTINUED

### PREGNANT MICE AND RATS

Taconic's breeding specialists use proven, highly effective procedures to generate timed pregnant mice and rats. While gestational age cannot be determined with total precision, strict adherence to pre-defined mating procedures, and close monitoring of female rats after they are co-housed with males, can accurately define the 24-hour period during which mating, and presumably, conception occurs.

#### Procedures

At Taconic, the day of sperm cell detection in females is called the sperm-positive date and is considered Day 1 of gestation.

After co-housing females with males the prior day, Taconic technicians take vaginal swabs of females between 7 and 10 a.m. daily or do plug checks, depending on the model to confirm that mating has occurred. In Murine Pathogen Free™ SD rats an impedance meter is used. This procedure assumes that timed-pregnant females have mated and conception has occurred from 0 to 24 hours before the designated sperm-positive date.

Presumably, the majority of matings occur around the midpoint of the previous day's dark cycle, from 6 P.M. to 6 A.M.

When investigators order timed pregnant rats at a specified developmental age for delivery on a specific date, Taconic technicians select rats based on the sperm-positive date. For instance, for an order for rats bearing embryos at Day 15 of gestational age for delivery on January 15, Taconic would select timed pregnant females with a sperm-positive date of January 1.

Since Taconic's method for selecting timed pregnant females results in full-term pregnancies with a high success rate as evidenced by the chart below, extra mice and rats are not supplied with each order. However, spontaneous abortions and small litters do occur on occasion. In addition, animals under 14 days do not allow for a visual confirmation of pregnancy and cannot be palpated to confirm pregnancy. When expending considerable time and resources to prepare for a study using timed pregnant mice or rats on a specific day, and

especially when requiring a specific number of pups to be born on a particular day or using a small number of dams or fetuses, please be sure to order additional animals. Please see the chart in next column to assist in determining the appropriate number of animals to order for your study.

#### Tips for Ordering

Specify the sperm-positive date when ordering timed pregnant models.

Taconic advises customers to order extra timed pregnant animals to prevent any potential issues.

#### Pregnant Animal Recommendations and Policies

Taconic's Timed Pregnant Sprague Dawley rats exhibit greater than 95% accuracy for timing of gestational age. For additional information on Taconic's timed pregnant rats and suggestions for ordering, see our Sprague Dawley® section. Taconic recommends orders for pregnant mice be less than 18 days gestation, and orders for pregnant rats be less than 19 days in order to prevent the animals from delivering in transit.

Model Type	Under 14 days Gestation	14+ days Gestation
SD Rats	95%	100%
Outbred Mice	75%	100%
Inbred Mice	60%	75%

If problems arise regarding gestational age or pregnancy with timed pregnant orders, customers should immediately contact Taconic's Customer Service Department to provide information regarding the number of animals involved and how non-pregnancy or mistiming was determined. Whenever possible, necropsy information and pictures should be provided to assist complaint investigations for a root cause. Taconic will issue the appropriate credit based on our investigation.

All untimed pregnant orders are filled using visibly pregnant females selected from Production Colony breeders. Customers should be aware that untimed pregnant mice and rats may deliver their litters while in transit and that no assurances are given regarding the size of the litter.

# Cancellation and Change Order Policy

Orders can be canceled or changed up to the cutoff time listed. Be sure to cancel an order prior to the cutoff time or cancellation fees up to the entire price of the order will be applied.

Order Type	Cutoff day/time
Traditional Models	<b>Orders from US production sites:</b> By 7 p.m. ET, two business days prior to ship date <b>Orders from European production sites:</b> By 3 p.m. CET, two business days prior to ship date
Spontaneous Mutant Models	<b>Orders from US production sites:</b> By 7 p.m. ET, two business days prior to ship date <b>Orders from European production sites:</b> By 3 p.m. CET, two business days prior to ship date
Special Setups, Exact Date of Birth and Time Pregnant Orders	Before breeders are setup or isolated
Taconic Transgenic Models™	4 weeks prior to ship date
Emerging Models	4 weeks prior to ship date
Precision Research Models: Human Immune System Engrafted Mice	4 weeks prior to ship date
Surgically Modified Models	By 7 p.m. ET, one business day prior to animals transferred to surgery
Aged Animals 13 weeks	Prior to animals reaching 13 weeks of age
Embryo Derivations and Cryopreservation	Prior to animals arriving at Taconic
Molecular Analysis	Prior to receipt of samples
Animal Health Testing	Prior to receipt of samples
Custom Breeding Projects	Prior to project initiation
Murine Biospecimens	Prior to project initiation



# Terms and Conditions

## FOR SALE OF PRODUCTS

The following terms and conditions apply to all products sold by Taconic Biosciences, Inc. ("Taconic") and are in addition to all other terms and conditions set forth in this website that are relevant to a product.

### LIMITATIONS

Customer may not sell or transfer the animals, or any progeny or derivatives of the animals, to any third party without the prior written consent of Taconic. Additional conditions of use apply to specific animal models.

### DELIVERY

All animals are delivered FCA (Incoterms 2010) customer's named location, however customer shall pay all applicable container, packing, freight, insurance, boarding fees, customs, import, and any transaction or other fees.

### LIMITED WARRANTY

Taconic represents and warrants that at the time of delivery the ordered animals shall conform to Taconic's model number and sex listed on the Taconic packing list delivered for such animals. Customer shall visually inspect animals upon delivery to customer. Any health issue or quality control issue which can be noted upon visual inspection shall be reported to Taconic in writing within three (3) business days following delivery of the animals. If no written notice of health or quality control problems are provided within said three business-day time period then the animals shall be deemed accepted in this regard. In addition, customer shall inspect the animals during the thirty (30) day time period following delivery and shall provide written notice to Taconic of any other reasons for rejection of an animal. If no written notice of any other reason for rejection is provided within said thirty-day time period then the animals shall be considered fully accepted. In the event of any rejection of the animals, customer's sole remedy and Taconic's exclusive liability shall be, at Taconic's option, either the replacement of the rejected animals or a refund of the fee paid for the animals in question.

The foregoing warranty is in lieu of any and all other warranties express or implied relating to the animals. Taconic disclaims all implied warranties, including without limitation, implied warranties of merchantability or fitness for a particular purpose, or for non-infringement of intellectual property rights.

### LIMITATIONS OF LIABILITIES

In no event shall Taconic be liable to customer, or to any third party claiming by or through customer, for any special, incidental, consequential, exemplary, punitive, multiple or other indirect damages, or for loss of profits arising out of the provision of animals, failure to deliver animals conforming to specifications, or delay in delivery of animals, whether based upon warranty, contract, tort, strict liability or otherwise, even if Taconic has been advised of the possibility of such damages or losses.

Taconic's liability arising out of provision of animals, failure to deliver animals conforming to specifications, or delay in delivery of animals, whether based upon warranty, contract, tort, strict liability or otherwise, shall not exceed the fee paid by customer for such animal.

An action regarding animals delivered to customer may not be brought by customer more than one (1) year after the delivery of the animals, failure to deliver animals, or delay in delivery of animals.

### INDEMNIFICATION

Customer agrees to defend Taconic and its affiliates at customer's cost and expense, and will indemnify and hold Taconic, its affiliates, and their respective directors, officers, employees and agents (the "Taconic Indemnified Parties") harmless from and against any losses, costs, damages, fees or expenses arising out of any third party claim relating to the use of the delivered animals by customer, and/or any materials or any products obtained from the animals, including strict liability claims.



# Terms and Conditions

## FOR SALE OF SERVICES

The following terms and conditions apply to all services sold by Taconic Biosciences, Inc. ("Taconic") and are in addition to all other terms and conditions set forth on this website that are relevant to each service ordered.

### DELIVERY

All animals resulting from services that are delivered to customer are delivered FCA (Incoterms 2010) customer's named location, however customer shall pay all applicable container, packing, freight, insurance, boarding fees, customs, import, and any transaction or other fees.

### LIMITED WARRANTY

Taconic provides services to its customers on a contractual fee-for-service basis. Taconic warrants that it will perform the services with due care and in accordance with agreed-upon protocols or if no protocols are specifically agreed upon then in accordance with Taconic's standard protocols for the relevant services being provided. Any claim by customer for breach of this warranty shall be made in writing to Taconic no later than ninety (90) days after the date that the report regarding the services is delivered to customer. Customer's sole remedy and Taconic's exclusive liability for a breach of this limited warranty shall be, at Taconic's option, either the re-performance of the service or a refund of the fee paid for the service in question.

The foregoing warranty is in lieu of any and all other warranties, express or implied, relating to the services to be performed or the accuracy of the results obtained. Taconic disclaims all implied warranties, including without limitation, implied warranties of merchantability or fitness for a particular purpose, or for non-infringement of intellectual property rights.

### LIMITATIONS OF LIABILITIES

In no event shall Taconic be liable to customer, or to any third party claiming by or through customer, for any special, incidental, consequential, exemplary, punitive, multiple or other indirect damages, or for loss of profits arising out of the performance of the services or the failure, negligence or delay in performance of the services, whether based upon warranty, contract, tort, strict liability or otherwise, even if Taconic has been advised of the possibility of such damages or losses.

Taconic's liability arising out of the performance of the services or failure or delay to perform the services, whether based upon warranty, contract, tort, strict liability or otherwise, shall not exceed the fee paid by customer for such services.

An action regarding services may not be brought by customer more than one (1) year after the services are performed by Taconic.

### INDEMNIFICATION

For each service that customer provides materials (including compounds, biological materials or other materials, the "Customer Materials") for use by Taconic in the performance of the services, the customer agrees to defend Taconic and its affiliates at customer's cost and expense, and will indemnify and hold Taconic, its affiliates, and their respective directors, officers, employees and agents (the "Taconic Indemnified Parties") harmless from and against any losses, costs, damages, fees or expenses arising out of any third party claim relating to the Customer Materials, the use of the Customer Materials by Taconic for the performance of the services, or to the use by customer of any product or result obtained through the services, including strict liability claims.