

## NOBLE RAT

**Nomenclature:** NBL/CrCrI

**Common Name:** Noble Rat

### Strain Origin:

Bogden in the mid-1970s from Noble (Nb) strain rats (brother x sister mated but not descended from a single pair, and therefore not necessarily isogenic). To National Cancer Institute Animal Production Program (Cr) in 1978. To Charles River Laboratories in 1998.

### Strain Characteristics:

- Phenotype - black face with a black stripe down the length of a white body

### Production Information:

- Breed method: pedigree foundation colony, polygamous production colony
- Litter size: 8-10
- Gestation period: 21-24 days
- Weaning age: 21 days

### Applications:

- Bladder carcinoma (*Drago 1984*)
- Prostate cancer (*Leav et al. 1988, Lane et al. 1997*)
- Environmental toxicology (*Colerangle et al. 1997*)

### Distribution of Polymorphic Loci

Locus	Chromosome	Allele
Es-1	V	<i>b</i>
Es-2	V	<i>d</i>
Es-3	V	<i>a</i>
Es-4	V	<i>b</i>
Es-6	VII	<i>a</i>
Es-8	V	<i>b</i>
Es-9	V	<i>a</i>
Es-10	V	<i>a</i>
Fh-1	X	<i>b</i>
Glo-1	IX	<i>a</i>
Gst-1		<i>b</i>
Hbb	I	<i>b</i>
Lap-1	I	<i>a</i>
Pep-3	X	<i>a</i>
Pgd	II	<i>b</i>
Sup-1	IV	<i>a</i>
RT1		<i>u</i>

(*Hedrich 1990*)

### References

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