

Supplemental Figure 1. MHC (*H2*) and *B2M* Genetic Loci in NSG Strains

| | <u>Chromosome 2</u> | <u>Chromosome 17</u> | | | | | | | |
|--|---------------------|----------------------|-----------|-----------|-----------|-----------|----------|----------|--|
| | <i>β2M</i> | <i>K</i> | <i>Ab</i> | <i>Aa</i> | <i>Eb</i> | <i>Ea</i> | <i>D</i> | <i>L</i> | |
| C57BL/6 | + | b | b | b | b* | - | b | - | |
| NOD | + | d | g7 | b | d* | - | b | - | |
| NSG | + | d | g7 | b | d* | - | b | - | |
| NSG- <i>B2M</i> ^{null} | - | d* | g7 | b | d* | - | b | - | |
| NSG-(<i>K^b D^b</i>) ^{null} | + | - | b* | b | b* | - | - | - | |
| NSG-(<i>IA</i> ^{null}) | + | b* | - | b | b* | - | b | - | |
| NSG-(<i>IA IE</i>) ^{null} | + | b* | - | - | - | - | b | - | |
| NSG- <i>B2M</i> ^{null} (<i>IA IE</i>) ^{null} | - | b* | - | - | - | - | b* | - | |
| NSG-(<i>K^b D^b</i>) ^{null} (<i>IA</i> ^{null}) | + | - | - | b* | b* | - | - | - | |

A schematic showing the expression pattern of *B2M* and the *H2* haplotypes for the relevant MHC class I and II in the various mouse strains used.

* Protein not expressed on cell surface. Genes were originally targeted in *H2^b* haplotype strains (C57BL/6 or 129). The tightly linked MHC alleles were carried with the targeted alleles in the backcrosses to NSG.