

## **Supplementary Material**

Supplementary Table 1. Schematic representation of the shRNA sequences targeting  $\beta$ 2m transcripts

<b>Name</b>	<b>Sequence</b>
shRNA_1	5' GACCGAGACATGTAATCAA -3'
shRNA_2 (RN_sh $\beta$ 2m)	5' GGAAAGAAGATACCAAATA -3'

### **Supplementary Material and Methods**

#### **Determination of IgG levels on rat plasma**

Plasma of rat was isolated upon centrifugation (1200g) of peripheral blood collected immediately before transplantation and weekly after transplantation. All samples were frozen at  $-80^{\circ}\text{C}$  until the time of the assay. Rat IgG plasma levels were analysed by ELISA (Genway, San Diego, CA) according to the manufacturer's instructions. Results were acquired in a BioTek synergy microplate reader (Bio Tek, Bad Friedrichshall, Germany).

### **Supplementary Results**

#### **Determination of IgG levels on rat plasma**

Levels of IgG detected in plasma sample of animals transplanted with MHC expressing allogeneic cells were significantly higher (e.g. Week 3:  $116.9 \pm 2.9$  mg/ml,  $p < 0.05$ ; Week 8:  $115.8 \pm 4.0$  mg/ml,  $p < 0.01$ ) than IgG levels detected in animal receiving MHC class I-silenced cells (Week 3:  $111.1 \pm 2.3$  mg/ml or Week 8:  $110.3 \pm 0.7$  mg/ml) who did not lose the transplanted cells. The animal who lost the MHC class I-silenced cells at week 7 just showed a slight increase on IgG levels (Week 7:  $112.5$  mg/ml) in comparison with animal who maintained the grafted cells (Week 7:  $110.9 \pm 1.1$  mg/ml). Levels of IgG were considerably lower in the animals that lost MHC class I silenced cells (Week 7:  $112.5$  mg/ml) than in animals receiving MHC class I-expressing cells ( $116.9 \pm 2.9$ ) at the time of rejection. (Table S2)

Supplementary Table 2. Rat IgG plasma levels.

<b>IgG (mg/ml)</b>	<b>Pre-Tx</b>	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>	<b>Week 7</b>	<b>Week 8</b>
<b>No rejection MHC class I silencing cells (n=4)</b>	111.7±0.9	110.3±1.9	112.2±2.4	111.1±2.3	111.2±2.5	111.6±0.9	111.3±0.6	110.9±1.1	110.3±0.7
<b>Rejection MHC class I silenced cells (n=1)</b>	111.3	110.7	112.8	112.4	112.6	112.8	112.6	112.5 (graft not detectable)	112.7
<b>Rejection MHC class I expressing cells (n=3)</b>	111.2±0.7	112.9±0.2	114.1±0.9	116.9±2.9 (graft not detectable)	116.7±2.2	116.2±2.6	115.8±3.3	115.9±4.2	115.8±4.0