### Table S2  Summary of mixed model results for litter size in Hoxb1A1 treatment and control lineage homozygous F2 breeding cages

**Litter Size in Homozygous Breeding Cages**

GLMM with Poisson distribution and logarithmic link (Intercept at litter 1, 75 obs, 28 groups)

<table>
<thead>
<tr>
<th>Random effects</th>
<th>Variance</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breeding cage (Slope)</td>
<td>0.001</td>
<td>0.034</td>
</tr>
</tbody>
</table>

| Fixed effects | Estimate | Std. Error | Z value | Pr(>|z|) |
|----------------|----------|------------|----------|----------|
| Intercept | 1.540 | 0.105 | 14.67 | <0.0001*** |
| Genotype (Hoxb1^+/+^) | 0.497 | 0.144 | 3.46 | 0.001*** |
| Litter Parity | 0.155 | 0.082 | 1.90 | 0.058 |
| Genotype (Hoxb1^+/+^) X Litter Parity | -0.372 | 0.124 | -3.01 | 0.003** |

**Indicates a p value <0.01, *** < 0.001**