

Supplementary Materials

Table S1. Pregnancy and delivery outcomes for ornithine transcarbamylase deficient (OTCD) carrier female pigs.

| Mother pig ID ¹ | K76 | K77 | K77(2) | K78(2) | K79 | K80 | K96 | K96(2) | K96(3) | K97 | K100 | K103 | K103(2) | K106 | K106(2) | K135 | W321 | W328 | Total No. |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Gestation length, day | 112 | 112 | 111 | 111 | 114 | 112 | 106 | 109 | 111 | 106 | 112 | 110 | 111 | 112 | 111 | 112 | 114 | 112 | |
| Divergence ² | -2 | -2 | -3 | -3 | 0 | -2 | -8 | -5 | -3 | -8 | -2 | -4 | -5 | -2 | -3 | -2 | 0 | -2 | |
| Mode of delivery ³ | N | N | N | H | N | N | N | N | H | H | N | N | N | N | H | O | O | H | |
| Total No. of piglets | 13 | 7 | 8 | 11 | 7 | 11 | 12 | 9 | 13 | 10 | 8 | 11 | 6 | 11 | 11 | 7 | 4 | 14 | 173 |
| No. of live piglets | 9 | 7 | 8 | 10 | 5 | 11 | 9 | 8 | 12 | 10 | 8 | 10 | 6 | 10 | 10 | 7 | 4 | 9 | 153 |
| Live, male, OTCD⁴ | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 0 | 1 | 2 | 1 | 2 | 21 |
| Live, Male, WT ⁵ | 4 | 2 | 3 | 2 | 1 | 3 | 1 | 2 | 1 | 4 | 1 | 6 | 1 | 3 | 1 | 2 | 1 | 2 | 39 |
| Live, female, carrier | 0 | 2 | 2 | 3 | 4 | 3 | 3 | 2 | 6 | 4 | 5 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 46 |
| Live, female, WT | 3 | 2 | 3 | 5 | 0 | 4 | 4 | 2 | 4 | 0 | 1 | 1 | 3 | 5 | 3 | 1 | 0 | 2 | 42 |
| No. of dead piglets | 4 | 0 | 0 | 1 | 2 | 0 | 3 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 5 | 20 |
| Dead, male, OTCD | 4 | 0 | 0 | 1 | 2 | 0 | 3 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 5 | 19 |
| Dead, male, WT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Dead, female, carrier | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dead, female, WT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

¹Number in parenthesis denotes the number of delivery times; ²Divergence from standard gestation period (114 days [7]); ³N; normal delivery, H; hysterotomy after the sign of delivery, O; with oxytocic treatment; ⁴OTCD; Ornithine transcarbamylase deficient; ⁵WT; wild type; ⁶Average gestation length of total cases (n=18) and cases of normal delivery (n=11) were both 111 days.