

Supplementary Table I. Gonadal white adipose tissue weight, circulatory triglyceride and UcOC levels in different experiment groups

| Experiment group | | | | | |
|------------------|-------------------|----------------------|-------------------------|---------------------|-----------------------|
| | NPNL | P6 | P6 + WF | NPNL + ALN | NPNL + WF |
| GWAT weight (g) | 0.76 ± 0.12 | 1.85 ± 0.03*** | 0.52 ± 0.04††† | 1.7 ± 0.11*** | 0.63 ± 0.03 |
| TG (mg/dl) | 70.93 ± 3.5 | 61.39 ± 13.49 | 71.15 ± 18.53 | 25.02 ± 2.88* | 31.3 ± 5.12** |
| UcOC (ng/ml) | 23 ± 7.75 | 8.34 ± 4.69 | 103.62 ± 45.14*** | 8.66 ± 1.07 | 94.73 ± 44.82** |

Values are presented as mean ± SEM. NPNL; nonpregnant nonlactating, P6; day 6 of pregnancy, WF; warfarin (0.25 mg/kg BW/day for 3 days), ALN; alendronate (100 µg/kgBW for 6 weeks). Statistical analysis was determined by t-test between NPNL and P6, NPNL and NPNL+ALN, NPNL and NPNL+WF, and P6 and P6+WF. *, $p < 0.05$, **, $p < 0.01$, ***, or ††† $p < 0.001$.

Supplementary Table II. Food consumption and body weight in different experiment groups

| Experiment group | | | | | | | | |
|------------------------|--------------------|---------------------|-------------------|--------------------|-------------------|-------------------|--------------------|---------------------|
| | NPNL | P6 | P6 + | P6 + | NPNL + | NPNL+ ALN | NPNL + | NPNL + |
| | | | VEH | WF | VEH | | VEH | WF |
| Food consumption (g/d) | 14.9 ± 0.65 | 19 ± 1.52* | 19.4 ± 1.17 | 20.9 ± 1.23 | 17.1 ± 0.24 | 20.4 ± 1.45 | 16.5 ± 0.17 | 16.95 ± 0.21 |
| Body weight (g) | 191.1 ± 6.76 | 207.05 ± 8.29 | 210 ± 6.42 | 173 ± 4.51** | 208 ± 23.97 | 245 ± 2.58 | 213.4 ± 11.7 | 199.4 ± 11.42 |

Values are presented as mean ± SEM. NPNL; nonpregnant nonlactating, P6; day 6 of pregnancy, VEH; vehicle, WF; warfarin (0.25 mg/kg BW/d for 3 days), ALN; alendronate (100 µg/kgBW for 6 weeks). Statistical analysis was determined by t-test between NPNL and P6, P6+VEH and P6+WF, NPNL+VEH and NPNL+ALN, and between NPNL+VEH and NPNL+WF. *; $p < 0.05$. ** $p < 0.01$.

Supplementary Table III. List of primers used in the qPCR analysis.

| Gene name | Primer sequence | Amplicon size (bp) | Annealing temp (°C) |
|---------------|---------------------------------|--------------------|---------------------|
| Glut4 | F: GTTGGTCTCGGTGCTCTTAG | 159 | 54.5 |
| | R: CCAAATATGGCCACGATG | | |
| InsR | F: ACTGTCAAAATCGGAGACTTTG | 218 | 55 |
| | R: TGTTTCATTAGACAGGCCTTGG | | |
| Foxo1 | F: GCTAGGAGTTAGTGAGCAGGC | 167 | 65.1 |
| | R: CAGGAACGTGTTTCTGCTG | | |
| Mcad | F: GATCTATCAGATTTACGAAGGTAAGTCA | 185 | 60.1 |
| | R: TCATTTCTGTGGGAAGACAAGTAAAG | | |
| Nrf1 | F: GCTGTGGCTGATGGAGAGGTG | 98 | 46.7 |
| | R: ACTGCCTGGGTGGCCTCTG | | |
| Pparalpha | F: GCTGCTATAATTTGCTGTGGAGA | 145 | 57 |
| | R: GAAGGAGTTTTGGGAAGAGAAAAG | | |
| Gys1 | F: AGCCGTGCGCAAACAGCTATG | 173 | 66.1 |
| | R: GGAAAGACTGCCGCTGAGTCG | | |
| Pck | F: GCCGTAGACCTGCAGGTGT | 125 | 60.6 |
| | R: CATGATGACCTTGCCCTTATG | | |
| Gys2 | F: GAGATACCTGGGCAGATATTACC | 180 | 64.7 |
| | R: TCGCTGCTCTGAGGACTTG | | |
| Pfk | F: CGTCAACGCTGCAATGGAGAGTT | 159 | 50.2 |
| | R: TCCTCAAAGACGTAGGCGGCATC | | |
| Glut2 | F: TCCAGTACATTGCGGACTTCCTC | 141 | 55.5 |
| | R: TCCGGAATTCTGCAGCAATTC | | |
| Gck2 | F: CAAGTGGAGAGCGACTCC | 194 | 58.3 |
| | R: TCCTCACTGCGGCTTTC | | |
| Rpl19 | F: CGTCCTCCGCTGTGGTAAA | 216 | 62 |
| | R: AGTACCCTTCCTCTTCCCTATGC | | |
| ER α | F: CTAGACCCTTCAGTGAAGCCTC | 107 | 65.4 |
| | R: GTCCCCAAAGCCTGGC | | |
| ER β | F: AAGTGTGGATCCAGGAGAGA | 189 | 56.6 |
| | R: GGGTGGTTCAGCTTCCA | | |
| Gprc6a | F: AGCCATGGGAGCTACTTGCGGT | 186 | 50 |
| | R: GATGAAGACGTCATGCTGCAGG | | |
| Fatp1/Slc27a1 | F: GCCATTGTGGTGACAGCAGGTAC | 55 | 138 |
| | R: CTGTCCCACGCCATGATGTTC | | |
| Fatp4/Slc2a4 | F: CAGTATGTTGCGGATGCTATGG | 50 | 130 |
| | R: TGGCCGAGATCTGGTCAAATG | | |
| Atgl/Pnpla2 | F: GGTGACCATCTACCTTCCAGA | 55 | 109 |
| | R: AGTTGGGCAGTGCCTCACT | | |

| | | | |
|----------|------------------------------|----|-----|
| Dgat1 | F: ACAGCAATGATGGCTCAGGTCC | 50 | 178 |
| | R: CAGTGGGGGCATGAGCTACTG | | |
| Acbp/Dbi | F: AAGCTGAAAGGAACTTCCAAGG | 55 | 138 |
| | R: TCACAGGTATTATGTCACACATG | | |
| Fabp4 | F: GCCACCAGGAAAGTGGC | 50 | 174 |
| | R: GGTTATGATGCTCTTCACTTTCC | | |
| Fasn | F: GCAAGGAGCAAGGCGTGACAT | 65 | 188 |
| | R: GCTCTGGCGGAAAGCACACAG | | |
| Mgat | F: GCAGCCATTGGCCGCC | 55 | 151 |
| | R: CCAGAGTTTCATGCTCCGGAATAC | | |
| Mgll | F: GTCGGAGGTTGACCTGTACAACCTC | 60 | 156 |
| | R: CGGTCAGCAGAACCCTGC | | |
| Hsl | F: CCTGCAACAGAGACTGC | 60 | 162 |
| | R: CTCTGAGTTGCCCTTAAAGCTC | | |

F; forward primer, R; reverse primer.