

Supplementary Table S14. Association of BW-associated AMM-involved SNPs with maternal age at menarche and BMI in the studied population*.

| Chr (1) | SNP (2) | Gene (3) | offspring BW (4) | Maternal phenotypes | | | | |
|------------|------------|-------------|---------------------|-------------------------|-------------|----------------------------|--------------------------------|--------------------------|
| | | | | biological | | disorder | | |
| | | | | age at menarche* (5) | BMI* (6) | uterine leiomyoma (7)** | endometrial hyperplasia (8)*** | endometriosis (9)**** |
| 1 | rs1514175 | TNNI3K | yes | | | yes | | yes |
| 1 | rs466639 | RXRG | | | | | | |
| 1 | rs7538038 | KISS1 | yes | | | | yes | |
| 2 | rs713586 | RBJ | yes | | | yes | | yes |
| 2 | rs2164808 | POMC | | yes | yes | | | |
| 2 | rs7589318 | POMC | yes | | | yes | | |
| 2 | rs4374421 | LHCGR | yes | yes | yes | yes | yes | yes |
| 2 | rs7579411 | LHCGR | | yes | | yes | | yes |
| 2 | rs4953616 | LHCGR | | | yes | yes | | |
| 2 | rs6732220 | FSHR | | | | | yes | |
| 2 | rs4953655 | FSHR | | | yes | yes | yes | |
| 2 | rs12617311 | PLCL1 | | yes | yes | | | |
| 3 | rs6438424 | 3q13.32 | | yes | | | yes | yes |
| 4 | rs2013573 | UGT2B4 | yes | | | yes | yes | |
| 4 | rs13111134 | UGT2B4 | | | | | yes | |
| 4 | rs222003 | GC | yes | | | | | |
| 4 | rs222020 | GC | | | | yes | | |
| 4 | rs3756261 | EGF | | | | | | |
| 5 | rs757647 | KDM3B | yes | | | | | |
| 6 | rs7766109 | F13A1 | | | | | yes | |
| 6 | rs4946651 | LIN28B | yes | yes | yes | yes | | |
| 6 | rs7759938 | LIN28B | | yes | | | yes | yes |
| 6 | rs314280 | LIN28B | yes | | yes | | | |
| 6 | rs314276 | LIN28B | | yes | | yes | yes | |
| 6 | rs3020394 | ESR1 | yes | | yes | | | |
| 6 | rs1884051 | ESR1 | | | | | | |
| 6 | rs7753051 | IGF2R | | | | yes | | |
| 7 | rs1079866 | INHBA | yes | | | | | |
| 8 | rs2288696 | FGFR1 | | | | | | |
| 9 | rs10980926 | ZNF483 | | | | yes | yes | yes |
| 9 | rs10441737 | ZNF483 | yes | | | | yes | yes |
| 11 | rs10769908 | STK33 | | yes | | yes | | |
| 11 | rs555621 | FSHB | yes | | yes | yes | yes | yes |
| 11 | rs11031010 | FSHB | | | | yes | yes | yes |
| 11 | rs1782507 | FSHB | yes | | | yes | yes | yes |
| 11 | rs6589964 | BSX | yes | yes | | | yes | yes |
| 12 | rs1544410 | VDR | | | yes | yes | | yes |
| 14 | rs999460 | NKX2-1 | yes | | yes | | yes | |
| 14 | rs4986938 | ESR2 | yes | | | | yes | |
| 15 | rs2241423 | MAP2K5 | | | | yes | | |
| 16 | rs12444979 | GPRC5B | yes | | | | | |
| 16 | rs9939609 | FTO | | | | | | |
| 16 | rs12324955 | FTO | yes | | | yes | yes | yes |
| 18 | rs1398217 | SKOR2 | | | yes | | | |
| 19 | rs2252673 | INSR | | yes | | | | |
| 20 | rs1073768 | GHRH | yes | yes | yes | | | yes |
| 22 | rs4633 | COMT | yes | yes | yes | yes | yes | |
| 23 | rs5930973 | CD40LG | | | | | | |
| 23 | rs3092921 | CD40LG | | | | | | |

Note: yes: associated.

| | |
|--|---|
| | BW-associated SNP associated with one of the three maternal phenotype (uterine leiomyoma / endometrial hyperplasia / endometriosis). |
| | BW-associated SNP associated with two / three of the three maternal phenotypes (uterine leiomyoma / endometrial hyperplasia / endometriosis). |
| | BW-associated SNP associated with one of the two maternal phenotype (age at menarche / BMI). |
| | BW-associated SNP associated with two of the two maternal phenotype (age at menarche / BMI). |

* [24]. ** [30]. *** [28]. **** [29].