**Table S2.** Quantitative analysis of BMI results for *FTO* region markers perfectly correlated with Frayling *et al* in Caucasians (**bold**) plus all other markers present on the BeadChip in the corresponding HapMap CEU LD block in our (a) Caucasian and (b) African American cohorts respectively.

**(a) QTL for BMI in the Caucasian cohort**

| Chr | SNP | B35 location | Minor Allele | Major Allele | NMISS | BETA | SE | R2 | T | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | rs9930333 | 52357478 | T | G | 2630 | 0.08648 | 0.03191 | 0.002787 | 2.7100 | 0.0068 |
| 16 | rs10852521 | 52362466 | T | C | 2632 | -0.06088 | 0.0316 | 0.001409 | -1.9260 | 0.0542 |
| 16 | rs16945088 | 52370025 | G | A | 2630 | -0.07592 | 0.05542 | 0.0007135 | -1.3700 | 0.1709 |
| **16** | **rs8050136** | **52373776** | **A** | **C** | **2625** | **0.1037** | **0.0323** | **0.003919** | **3.2120** | **0.0013** |
| **16** | **rs3751812** | **52375961** | **T** | **G** | **2610** | **0.09931** | **0.03231** | **0.00361** | **3.0740** | **0.0021** |
| 16 | rs12597786 | 52378808 | T | C | 2631 | 0.02254 | 0.1121 | 1.54E-05 | 0.2010 | 0.8407 |
| 16 | rs9931164 | 52382739 | G | A | 2633 | -0.003899 | 0.118 | 4.15E-07 | -0.0331 | 0.9736 |
| 16 | rs9941349 | 52382989 | T | C | 2633 | 0.09884 | 0.03215 | 0.003579 | 3.0740 | 0.0021 |
| 16 | rs7199182 | 52383621 | G | A | - | - | - | - | - | - |
| 16 | rs7190492 | 52386253 | A | G | 2578 | -0.06477 | 0.03335 | 0.001462 | -1.9420 | 0.0523 |
| 16 | rs8044769 | 52396636 | T | C | 2632 | -0.08179 | 0.03163 | 0.002536 | -2.5860 | 0.0098 |
| 16 | rs6499646 | 52401034 | C | T | 2628 | -0.02667 | 0.05496 | 8.97E-05 | -0.4853 | 0.6275 |
| 16 | rs1421090 | 52407671 | C | T | 2628 | -0.03454 | 0.03629 | 0.0003448 | -0.9518 | 0.3413 |

**(b) QTL for BMI in the African American cohort**

| Chr | SNP | B35 location | Minor Allele | Major Allele | NMISS | BETA | SE | R2 | T | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | rs9930333 | 52357478 | G | T | 1966 | 0.04355 | 3.90E-02 | 0.0006339 | 1.1160 | 0.2645 |
| 16 | rs10852521 | 52362466 | T | C | 1968 | -0.05961 | 0.04377 | 0.0009425 | -1.3620 | 0.1734 |
| 16 | rs16945088 | 52370025 | G | A | 1963 | 0.0123 | 0.04219 | 4.33E-05 | 0.2915 | 0.7707 |
| **16** | **rs8050136** | **52373776** | **A** | **C** | **1960** | **0.05674** | **3.98E-02** | **0.001039** | **1.4270** | **0.1537** |
| **16** | **rs3751812** | **52375961** | **T** | **G** | **1962** | **0.04218** | **6.56E-02** | **0.000211** | **0.6431** | **0.5202** |
| 16 | rs12597786 | 52378808 | T | C | 1965 | -0.05468 | 0.1285 | 9.22E-05 | -0.4255 | 0.6705 |
| 16 | rs9931164 | 52382739 | G | A | 1968 | -0.04239 | 0.09297 | 0.0001057 | -0.4559 | 0.6485 |
| 16 | rs9941349 | 52382989 | T | C | 1967 | 0.01067 | 0.05158 | 2.18E-05 | 0.2069 | 0.8361 |
| 16 | rs7199182 | 52383621 | G | A | 1952 | 0.05148 | 0.04276 | 0.0007427 | 1.2040 | 0.2288 |
| 16 | rs7190492 | 52386253 | A | G | 1932 | -0.03174 | 0.04955 | 0.0002126 | -0.6406 | 0.5219 |
| 16 | rs8044769 | 52396636 | T | C | 1968 | -0.03779 | 0.04692 | 0.0003299 | -0.8055 | 0.4206 |
| 16 | rs6499646 | 52401034 | T | C | 1965 | 0.0005684 | 0.04068 | 9.95E-08 | 0.0140 | 0.9889 |
| 16 | rs1421090 | 52407671 | C | T | 1968 | 0.02868 | 0.04375 | 0.0002185 | 0.6555 | 0.5122 |

NMISS: number of individuals tested; BETA: regression coefficient for the test SNP; SE: standard error of the regression coefficient; R2: $r^2$ value in linear regression; T: test statistic; P: *P*-value