Supplementary file 1a

|  |  |  |
| --- | --- | --- |
| **Rs ID** | **Position at hg38 chr13**  | **Luciferase reporter construct** |
| [rs7988412](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs7988412) | 27426145 | 1 |
| [rs76790205](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs76790205) | 27428748 | 2 |
| [rs10220056](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs10220056) | 27429644 |
| [rs9581848](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9581848) | 27429860 |
| [rs9581849](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9581849) | 27431645 | 3 |
| [rs74183666](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs74183666) | 27433628 | 4 |
| [rs7669](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs7669) | 27435714 | 5 |
| [rs1885989](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs1885989) | 27435980 | 6 |
| [rs1885988](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs1885988) | 27436125 |
| [rs57724994](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs57724994) | 27436252 |
| [rs76249173](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs76249173) | 27436308 |
| [rs75439483](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs75439483) | 27436375 |
| [rs77055070](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs77055070) | 27436379 |
| [rs143190464](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs143190464) | 27436414 |
| [rs74563672](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs74563672) | 27436523 |
| [rs147240135](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs147240135) | 27436782 |
| [rs12867531](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs12867531) | 27436791 |
| [rs78334317](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs78334317) | 27436817 |
| [rs76488435](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs76488435) | 27436853 |
| [rs79023532](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs79023532) | 27436942 |
| [rs74811644](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs74811644) | 27437021 |
| [rs45622135](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs45622135) | 27437457 | 7 |
| [rs9581850](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9581850) | 27438128 |
| [rs12018313](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs12018313) | 27438129 |
| [rs139686876](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs139686876) | 27438919 | 8 |
| [rs9581852](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9581852) | 27439611 |
| [rs9579083](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9579083) | 27443133 | 9 |
| [rs9581854](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9581854) | 27443645 | 10 |
| [rs9581855](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9581855) | 27443877 |
| [rs67785913](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs67785913) | 27451171 | 11 |
| [rs9512699](https://pubs.broadinstitute.org/mammals/haploreg/detail_v4.1.php?query=&id=rs9512699) | 27455759 | 12 |

Supplementary file 1b

| Phenotype | CHR | BP | SNP | Ref | Alt | P-value | Beta | MAF |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BMI | 13 | 28010734 | rs1218824 | A | G | 3.1x10^-11 | 0.017 | 34% |
| 13 | 28011963 | rs1218822 | G | A | 3.0x10^-11 | 0.017 | 34% |
| 13 | 28012527 | rs9512696 | G | A | 3.1x10^-11 | 0.017 | 34% |
| 13 | 28013501 | rs7992832 | T | C | 7.0x10^-11 | -0.018 | 28% |
| 13 | 28018237 | rs9507895 | C | G | 7.20x10^-11 | -0.018 | 28% |
| 13 | 28020180 | rs4771122 | A | G | 1.70x10^-10 | -0.017 | 23% |
| 13 | 28022914 | rs4771123 | T | C | 1.30x10^-10 | -0.017 | 28% |
| 13 | 28033485 | rs9512702 | C | T | 1.0x10^-9 | -0.017 | 26% |
| 13 | 28036062 | rs1967772 | A | G | 5.50x10^-11 | -0.018 | 29% |
| Whole body fat mass | 13 | 28010734 | rs1218824 | A | G | 3.1x10^-11 | 0.017 | 34% |
| 13 | 28011963 | rs1218822 | G | A | 3.0 x10^-11 | 0.017 | 34% |
| 13 | 28012527 | rs9512696 | G | A | 3.1x10^-11 | 0.017 | 34% |
| 13 | 28013501 | rs7992832 | T | C | 7.0x10^-11 | -0.018 | 28% |
| 13 | 28018237 | rs9507895 | C | G | 7.20x10^-11 | -0.018 | 28% |
| 13 | 28020180 | rs4771122 | A | G | 1.70x10^-10 | -0.017 | 23% |
| 13 | 28022914 | rs4771123 | T | C | 1.30x10^-10 | -0.017 | 28% |
| 13 | 28036062 | rs19967772 | A | G | 5.50x10^-11 | -0.018 | 29% |
| 13 | 28049176 | rs1007700 | T | C | 7.30x10^-9 | 0.015 | 29% |
| 13 | 28056547 | rs9507906 | G | C | 7.80x10^-9 | -0.015 | 29% |
| Arm fat mass (right) | 13 | 28010734 | rs1218824 | A | G | 3.1x10^-11 | 0.017 | 34% |
| 13 | 28011963 | rs1218822 | G | A | 3.0x10^-11 | 0.017 | 34% |
| 13 | 28012527 | rs9512696 | G | A | 3.1x10^-11 | 0.017 | 34% |
| 13 | 28013501 | rs7992832 | T | C | 7.0x10^-11 | -0.018 | 28% |
| 13 | 28018237 | rs9507895 | C | G | 7.20x10^-11 | -0.018 | 28% |
| 13 | 28018370 | rs4771121 | A | G | 1.20x10^-9 | -0.016 | 28% |
| 13 | 28022914 | rs4771123 | T | C | 1.30x10^-10 | -0.017 | 28% |
| 13 | 28033485 | rs9512702 | C | T | 1.0x10^-9 | -0.017 | 26% |
| 13 | 28036062 | rs1967772 | A | G | 5.50x10^-11 | -0.018 | 29% |
| 13 | 28049176 | rs1007700 | T | C | 3x10^-9 | 0.016 | 29% |
| 13 | 28049143 | rs1007701 | G | C | 8.5x10^-9 | 0.016 | 26% |
| 13 | 28049506 | rs9507904 | T | C | 1.2x10^-8 | -0.016 | 26% |