

Table S3. Overlapping differentially methylated regions for the obese versus LFCR and obese versus MCR comparisons

| Gene | CpG site | Feature | Relation to UCSC CpG Island | Obese % methyl | LFCR % methyl | MCR % methyl | Ob vs LFCR q-value | Ob vs MCR q-value |
|-------------|-----------------|----------------------|------------------------------------|-----------------------|----------------------|---------------------|---------------------------|--------------------------|
| Trim67 | chr8_124828691 | Body | Open sea | 100 | 83.6 | 80.4 | 0.033 | 0.011 |
| Tcf15 | chr2_180642613 | 1 st exon | Island | 34.0 | 9.2 | 12.7 | 0.021 | 0.0047 |
| Srebf1 | chr11_60203552 | Body | Open sea | 91.8 | 59.0 | 56.6 | 0.019 | 5.4x10 ⁻⁴ |
| Tm6sf1 | chr7_81863233 | 5'UTR | Shelf | 10.9 | 31.7 | 36.3 | 0.030 | 0.0089 |
| St3gal5 | chr6_72097819 | 1 st exon | Island | 0 | 36.5 | 44.9 | 1.46x10 ⁻⁸ | 7.92 x10 ⁻⁶ |
| Lmf1 | chr17_25648079 | Body | Open sea | 18 | 36.1 | 35.0 | 0.021 | 0.011 |

Differentially methylated regions were assessed via reduced representation bisulfite sequencing in a subset of normal mammary tissue samples, distal to tumor, with n=4 in the Obese and LFCR groups, n=3 in the MCR group. Abbreviations: LFCR, low-fat calorie-restricted; MCR, Mediterranean-style calorie restricted; methyl, methylation; Ob, obese; UCSC, University of California at Santa Cruz