

Table S1. Allele frequencies of eight SNPs located in the promoter I of the bovine *ACACA* gene.

| Sire breed | Allele frequency | | | | | |
|----------------------|------------------|-------------|------|------|------|------|
| | SNP1/2/4/5/6/8 | | SNP3 | | SNP7 | |
| | T/C/T/G/A/A | A/T/C/A/G/G | G | T | T | C |
| Hereford (n = 95) | 0.33 | 0.67 | 1.00 | 0 | 0.56 | 0.44 |
| Angus (n = 94) | 0.55 | 0.45 | 0.99 | 0.01 | 0.37 | 0.63 |
| Brangus (n = 99) | 0.32 | 0.68 | 0.86 | 0.14 | 0.30 | 0.70 |
| Beefmaster (n = 96) | 0.41 | 0.59 | 0.97 | 0.03 | 0.36 | 0.64 |
| Bonsmara (n = 92) | 0.23 | 0.77 | 0.58 | 0.42 | 0.36 | 0.64 |
| Romosinuano (n = 96) | 0.37 | 0.63 | 0.88 | 0.12 | 0.44 | 0.56 |
| Total | 0.36 | 0.64 | 0.88 | 0.12 | 0.39 | 0.61 |