

Supplementary Table 1. Estimates and their standard errors (SE) for daily yield of milk and major milk constituents as referred to *IGF2* g.8656C>T genotype in exon 2

| Trait | <i>IGF2</i> genotype (RFLP- <i>Bsr</i> I) | | | | | |
|----------------------|---|--------|--------------------------------|--------|-------------------------------|--------|
| | CC ($n^{\ddagger}=1242/55$) | | CT ($n^{\ddagger}=2538/117$) | | TT ($n^{\ddagger}=1620/66$) | |
| | Estimates | SE | Estimates | SE | Estimates | SE |
| Daily milk yield, kg | 26.37 | 0.96 | 26.51 | 0.79 | 26.49 | 0.89 |
| Fat, % | 5.12 | 0.13 | 5.09 | 0.11 | 5.10 | 0.12 |
| Protein, % | 3.97 ^A | 0.05 | 3.93 ^B | 0.04 | 3.99 ^A | 0.05 |
| Lactose, % | 4.62 ^A | 0.04 | 4.61 ^A | 0.03 | 4.57 ^B | 0.04 |
| Total solids, % | 14.23 | 0.16 | 14.17 | 0.14 | 14.20 | 0.15 |
| Fat, g/d | 1107.31 | 30.20 | 1113.18 | 23.77 | 1108.95 | 27.20 |
| Protein, g/d | 532.32 ^A | 41.20 | 507.32 ^B | 2.26 | 540.89 ^A | 2.75 |
| Total solids, g/d | 3914.27 ^A | 186.33 | 3816.36 ^B | 174.56 | 3888.13 ^{AB} | 180.79 |
| Lactose, g/d | 1219.00 | 49.40 | 1219.29 | 40.71 | 1205.78 | 45.59 |
| Ln SCC | 8.56 ^A | 0.25 | 8.89 ^B | 0.20 | 8.88 ^B | 0.23 |

\ddagger Number of milk samples/animals analysed

^{A,B} Within lines estimates without a common superscript differ at $P \leq 0.003$

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Supplementary Table 2. Estimates and their standard errors (SE) for daily yield of milk and major milk constituents as referred to *IGF2* g.24507G>T genotype in exon 10

| Trait | <i>IGF2</i> genotype (RFLP- <i>HaeIII</i>) | | | | | |
|----------------------|---|-------|-------------------|-------|--------------------|--------|
| | GG (n‡=3884/164) | | GT (n‡=1486/72) | | TT (n‡=30/2) | |
| | Estimates | SE | Estimates | SE | Estimates | SE |
| Daily milk yield, kg | 26.8 | 0.57 | 26.7 | 0.71 | 27.4 | 2.79 |
| Fat content, % | 4.81 | 0.08 | 4.90 | 0.09 | 4.79 | 0.30 |
| Protein content, % | 3.89 ^A | 0.03 | 3.92 ^B | 0.04 | 3.91 ^{AB} | 0.13 |
| Lactose content, % | 4.58 ^A | 0.03 | 4.55 ^A | 0.03 | 4.40 ^B | 0.11 |
| Total solids, % | 13.21 | 0.12 | 13.32 | 1.15 | 13.08 | 0.44 |
| Fat, g/d | 1152.12 | 29.84 | 1180.48 | 34.91 | 1221.21 | 111.99 |
| Protein, g/d | 723.77 | 21.21 | 742.95 | 24.69 | 697.02 | 80.01 |
| Lactose, g/d | 1246.00 | 24.06 | 1252.29 | 33.36 | 1192.78 | 141.40 |
| Total solids, g/d | 3383.54 | 63.05 | 3481.36 | 83.77 | 3336.28 | 341.40 |
| LnSCC | 7.52 ^A | 0.16 | 7.70 ^B | 0.20 | 9.24 ^C | 0.75 |

‡Number of milk samples/animals analysed

^{A,B} Within lines estimates without a common superscript differ at $P \leq 0.003$

Supplementary Table 1. Estimates and their standard errors (SE) for daily yield of milk and major milk constituents as referred to *IGF2* g.8656C>T genotype in exon 2

| Trait | <i>IGF2</i> genotype (RFLP- <i>Bsr</i> I) | | | | | |
|--------------------------|---|--------|---------------------------|--------|--------------------------|--------|
| | CC (<i>n</i> *=1242/55) | | CT (<i>n</i> *=2538/117) | | TT (<i>n</i> *=1620/66) | |
| | Estimates | SE | Estimates | SE | Estimates | SE |
| Daily milk yield (kg) | 26.37 | 0.96 | 26.51 | 0.79 | 26.49 | 0.89 |
| Fat (%) | 5.12 | 0.13 | 5.09 | 0.11 | 5.10 | 0.12 |
| Protein (%) | 3.97 ^A | 0.05 | 3.93 ^B | 0.04 | 3.99 ^A | 0.05 |
| Lactose [#] (%) | 4.62 ^A | 0.04 | 4.61 ^A | 0.03 | 4.57 ^B | 0.04 |
| Total solids (%) | 14.23 | 0.16 | 14.17 | 0.14 | 14.20 | 0.15 |
| Fat (g) | 1107.31 | 30.20 | 1113.18 | 23.77 | 1108.95 | 27.20 |
| Protein (g) | 532.32 ^A | 41.20 | 507.32 ^B | 2.26 | 540.89 ^A | 2.75 |
| Total solids (g) | 3914.27 ^A | 186.33 | 3816.36 ^B | 174.56 | 3888.13 ^{AB} | 180.79 |
| Lactose (g) | 1219.00 | 49.40 | 1219.29 | 40.71 | 1205.78 | 45.59 |
| SCC(ln) [#] | 8.56 ^A | 0.25 | 8.89 ^B | 0.20 | 8.88 ^B | 0.23 |

*Number of milk samples/animals analysed; ^{A,B} Within lines estimates bearing different superscripts differ at $p \leq 0.003$; [#] - logarithm of somatic cell count.

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Supplementary Table 2. Estimates and their standard errors (SE) for daily yield of milk and major milk constituents as referred to *IGF2* g.24507G>T genotype in exon 10

| Trait | <i>IGF2</i> genotype (RFLP- <i>Hae</i> III) | | | | | |
|-----------------------|---|-------|--------------------------|-------|-----------------------|--------|
| | GG (<i>n</i> *=3884/164) | | GT (<i>n</i> *=1486/72) | | TT (<i>n</i> *=30/2) | |
| | Estimates | SE | Estimates | SE | Estimates | SE |
| Daily milk yield (kg) | 26.8 | 0.57 | 26.7 | 0.71 | 27.4 | 2.79 |
| Fat content (%) | 4.81 | 0.08 | 4.90 | 0.09 | 4.79 | 0.30 |
| Protein content (%) | 3.89 ^A | 0.03 | 3.92 ^B | 0.04 | 3.91 ^{AB} | 0.13 |
| Lactose content (%) | 4.58 ^A | 0.03 | 4.55 ^A | 0.03 | 4.40 ^B | 0.11 |
| Total solids (%) | 13.21 | 0.12 | 13.32 | 1.15 | 13.08 | 0.44 |
| Fat (g) | 1152.12 | 29.84 | 1180.48 | 34.91 | 1221.21 | 111.99 |
| Protein (g) | 723.77 | 21.21 | 742.95 | 24.69 | 697.02 | 80.01 |

| | | | | | | |
|-----------------------|-------------------|-------|-------------------|-------|-------------------|--------|
| Lactose (g) | 1246.00 | 24.06 | 1252.29 | 33.36 | 1192.78 | 141.40 |
| Total solids (g) | 3383.54 | 63.05 | 3481.36 | 83.77 | 3336.28 | 341.40 |
| SCC (ln) [#] | 7.52 ^A | 0.16 | 7.70 ^B | 0.20 | 9.24 ^C | 0.75 |