

Genome-wide genomic and functional association study for workability and calving traits in Holstein cattle

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Bull DRP

- DCE: direct calving ease 30,603 bulls
- MCE: maternal calving ease ` 29,738 bulls
- DSB: direct stillbirth 24,521 bulls
- MSB: maternal stillbirth 28,081 bulls
- TEM: temperament 22,301 bulls
- MSP: milking speed 28,376 bulls

Genotypes

- Illumina BovineSNP50 BeadChip 2 (87% bulls)
 → 54,609 SNPs
- Illumina BovineSNP50 BeadChip 1 (12% bulls)
- Other (1% bulls)



