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A whole-genome association study for litter size and litter weight traits in pigs

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Highlights

- Different QTL and genes had impact on litter traits in first and second parity.
- In 1st parity important 1-Mb windows consisted *SCO1*, *RNU5A*, *ARHGEF3* and *EDNRA* genes.
- In 2nd parity important 1-Mb windows consisted *LRIG3*, *FTL*, *HNRNPU* and *ZNF28* genes.
- 8 of 13 important multiple trait 1-Mb windows in 1st parity were associated with LW at birth (SSC 6, 8, 9, 12, 13, 16).
- 5 of 8 important multiple trait 1-Mb windows in 2nd parity were associated with LS at birth (SSC 1, 5, 6, 15, 18).

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