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The pattern of development for gene expression of sterol regulatory element binding transcription factor 1 in pigs

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Sterol regulatory element-binding transcription factor 1 (*SREBF1*) has been implicated as a key regulator of adipocyte differentiation and lipid metabolism. The pattern of *SREBF1* gene expression in different growth stages and the relation with adipose deposition is studied. Fifteen female Duroc × Landrace × Yorkshire pigs in five groups, each group of three pigs at live weight 1, 30, 50, 70 and 90 kg, were used to study the developmental gene expression of *SREBF1* in the subcutaneous adipose tissue by means of semi-quantitative RT-PCR. The results showed that porcine *SREBF1* mRNA was present in a very low concentration at birth and continually increased to the highest expression at 90 kg growth stages, *SREBF1* mRNA levels increased as pigs grew and deposited fat from 1 to 90 kg live weights ($P < 0.05$). The present data indicated a close positive correlation between the levels of *SREBF1* gene expression and the fat deposition rate in pigs ($P < 0.05$).

Keywords:*SREBF1*; gene expression; fat deposition; pig[download PDF](#)

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