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Tissue expression profile and expression pattern of Myofactor-6 gene (*Myf6*) in high quality chicken

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Myofactor-6 gene (*Myf6*) is a member of myogenic regulatory factors (MRFs) family and plays an important role in regulation of muscle building. To explore the expression profile and expression pattern of *Myf6* gene and its possible mechanism of action, in this experiment, we use real-time fluorescent quantitative PCR to detect the expression level of *Myf6* in different tissue to draw the expression profile. Then, the expression levels of *Myf6* gene in high expression tissue of breast and leg muscle at five-time points were detected to study the expression pattern. The results showed that *Myf6* mainly expressed in breast and leg muscle and the expression level was extremely significantly higher ($P < 0.01$) than that in spleen tissue. In Jinghai yellow chicken, the expression of *Myf6* gene in male and female chicken is basically the same, the expression level of breast muscle decreased slightly at 4 weeks, but it showed an increasing trend overall, the expression level of leg muscle is rising from 0 weeks to 16 weeks and reaching the highest level at 16 weeks. In Jinmao yellow chicken, the expression of breast muscle and leg muscle showed an increasing trend from birth to 4 weeks and decreased slightly at 8 weeks, then showed an upward trend. This study revealed the expression profile and expression pattern with the growth and development of muscle of Jinghai yellow chicken and Jinmao yellow chicken and might lay a foundation for further study on mechanism of action and expression regulation of *Myf6* gene.

Biography

Xuemei Yin is a Doctoral student of Yangzhou University, China. Her research interest is in animal genetics, breeding and reproduction and she has published 4 papers in various journals.

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