

# **Expression and characterization of two STAT isoforms from Sf9 cells**

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摘要.

## **Abstract**

In invertebrates, the JAK-STAT signaling pathway is involved in the anti-bacterial response and is part of an anti-viral response in *Drosophila*. In this study, we show that two STAT transcripts are generated by alternative splicing and encode two isoforms of Sf-STAT with different C-terminal ends. These two isoforms were produced and purified using the recombinant baculovirus technology. Both purified isoforms showed similar DNA-binding activity and displayed weak but significant transactivation potential toward a *Drosophila* promoter that contained a STAT-binding motif. No significant activation of the Sf-STAT protein in Sf9 cells was found by infection with baculovirus AcMNPV.