

## PORK QUALITY

**Title:** Regulation of Fat Synthesis by ASP in the Pig – NPB# 00-142

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### Abstract

Fat synthesis is regulated acylation stimulating protein (ASP) in human adipose tissue. To date, nothing is known about whether ASP has this function the pig, or even whether ASP exists the pig. We have now cloned a sequence of porcine nucleic acid that codes for ASP and verified that this protein exists in the pig. We have purified approximately 10 mg of porcine ASP, developed a crude assay for porcine ASP, and verified that porcine ASP can promote fat synthesis in cultured human cells. We propose that ASP may play a role in regulation of energy storage in adipose tissue in the pig.

*These research results were submitted in fulfillment of checkoff funded research projects. This report is published directly as submitted by the project's principal investigator. This report has not been peer reviewed*

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