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Biological Role of *Actinobacillus pleuropneumoniae* Type IV Pilus

Proteins Encoded by the *apf* and *pil* Operons

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Highlights:

- Not only the *apfABCD* (*apf*) operon but also the *pilMNOPQ* (*pil*) operon is necessary for Tfp biogenesis in *A. pleuropneumoniae*.
- The *apf* and *pil* operons are present and highly conserved among 15 serotypes of *A. pleuropneumoniae*.
- The transcription of the *pil* operon was greatly upregulated upon bacterial contact with host cells.

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