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**Two-Dimensional Gel Electrophoresis Patterns of
Pseudomonas syringae pv. *tabaci***

Cha Ji Young, Koungh Chul Shin, Joong Kwon Kim, Chang Sook Ahn, and Hyung Suk Baik

Department of Microbiology, Pusan National University. 609-735 Busan, Korea

Environmental iron concentrations coordinately regulate transcription of genes involved in iron acquisition and virulence via the ferric uptake regulation(*fur*) system. We identified the *fur* gene by using Southern hybridization under low-stringency conditions with 250bp fragment probes that were amplified by PCR from *Pseudomonas syringae* pv. *tabaci* genomic DNA with the putative primer and by sequencing the hybridizing clone of *P. syringae* pv. *tabaci* chromosomal DNA. A positive selection procedure involving the isolation of manganese-resistant mutants was used to isolate mutants that produce altered Fur protein. The hybridizing clone of *P. syringae* pv. *tabaci* chromosomal DNA complemented with its *fur* mutant. To analyze the functions of *fur* gene, we made a comparative two-Dimensional gel electrophoresis analysis of wild type strain and *fur* mutant strain and discovered several different spots.