

4. proA (Gamma glutamylphosphate reductase) (Ma et al. 2007) band size 785bp

proAF1 5'-CGGYAATGCGGTGATTCTGCG-3'

proAR1 5'-GGGTACTGACCGCCACTTC-3'

636 bp partial gene was used in analysis

example in *D. dadantii* 3937 genome (reverse complement)

>proA_D_dadantii_3937

```
aaagaatccagcaggcgctggtcgaatgcggcctgctgccggcgattcaggcgattgaaagccggatcgtgagctggtaatcaactgctgaaactcgatcg
ctacgttgacatgctgattccccggcgccgggcttgacaaagctatgcgcgagcattccaccattccgtgatcacccggcgattggcgtgtgccacatctat
gtcgacgagtcgatggattcggcgctgaaaggtaacgcgtaaaacccagcgtcccagcacctgcaacacggtgaaaccctgtggcatcaggg
cattggccgcgttctgcccgcgtgagcgagcgtatgaaacagggtgggtgagcttacatgcctgcccgcgtccgtcgtgaccagcggccggcgag
cgtcaccgcggtagaagccgcaaattatgtatgacgatggttgcgtggatctgaacgtgaagctggcgtcagatattgacgacgcatatccgtgagcc
cgccacccagcacttgacgcctactcgctttaaggcgctgctgagcaattcgtgcgtgaggttagattcctcgccgttatgtcaacgccc
```

References

Ma, B., Hibbing, M. E., Kim, H., Reedy, R. M., Yedidia, I., Breuer, J., et al. 2007. Host Range and Molecular Phylogenies of the Soft Rot Enterobacterial Genera *Pectobacterium* and *Dickeya*. *Phytopathology*. 97:1150–1163

WALERON, M., WALERON, K., and ŁOJKOWSKA, E. 2002. Genotypic Characterisation of the *Erwinia* Genus by PCR-RFLP Analysis of *rpoS* Gene. *Plant Prot. Sci.* 38:288–290