E. coli : N W Y R G T A D A V

Maize : - - F Q - - - - - -
Rice : - - F Q - - - - - -
Spinach: D - F Q - - - - - -
Potato : D - F Q - - - - - -

Figure 13. Comparison of putative substrates and activator-binding sequences of small subunits of plants and E. coli ADPglucose pyrophosphorylase. The amino acid sequences surrounding the putative substrates and activator-binding sites of small subunits of maize [present work], rice [Anderson et al., 1989], spinach [Preiss et al., 1989] and potato [Muller-Rober et al., 1990] were compared with the sequence determined for the substrates and activator-binding site of E. coli enzyme [Lee and Preiss, 1986]. The tyrosine residue implicated in the substrates and activator binding site of the E. coli enzyme is marked by * under the residue. The numbers over the residues represent amino acid number of E. coli in figure 8 and plants in figure 10. Only those amino acid residues that differ from the E. coli sequence are displayed.