



**Supplemental Figure 4.** Relative substrate specificity of TyrAT from opium poppy. Enzyme assays consisted of 2  $\mu$ g of recombinant Ps TyrAT protein, 0.1 mM PLP, 0.1 mM EDTA, 5 mM of each L-amino acid substrate with 0.5 mM  $\alpha$ -ketoglutarate, or 0.5 mM of each  $\alpha$ -keto acid with 3 mM L-tyrosine in 100 mM HEPES buffer, pH 8.0. Reactions were incubated at 30°C for 1 h. Relative substrate specificity was calculated as a percentage of conversion of each substrate compared with the conversion of L-tyrosine or  $\alpha$ -ketoglutarate.