ARG4 encodes arginosuccinate lyase, a cytosolic enzyme that catalyzes the final step in arginine biosynthesis. Transcription of ARG4 is regulated by the general amino acid control mechanism; unlike other arginine biosynthetic genes, ARG4 is not regulated specifically in response to arginine. The ARG4 gene has been extensively used in studies of meiotic recombination and gene conversion; for reviews see 6 and 7.