ATP18 encodes subunit i/j of yeast mitochondrial ATP synthase. The ATP synthase complex utilizes proton motive force to generate ATP from ADP and Pi. The structure of this enzyme complex is highly conserved among diverse organisms and consists of two major components, soluble F1 and membrane-bound F0, each of which contains many subunits. Subunit i/j is one of only a few known ATP synthase subunits that are unique to yeast mitochondria; no subunit i/j homologs have been identified in either mammalian mitochondria or bacteria. The specific function of this protein is not yet known and reports on the consequence of ATP18 deletions have been mixed. General ATP synthase structure and function are reviewed in references 3 and 5. For a review that is specific to yeast, see reference.