NUP2 encodes a non-essential nuclear pore protein that has a central domain similar to those of Nsp1p and Nup1p. Transport of macromolecules between the nucleus and the cytoplasm of eukaryotic cells occurs through the nuclear pore complex, a large macromolecular complex that spans the nuclear envelope. The structure of the vertebrate NPC has been studied extensively; recent reviews include 10, 11, 12, and 13. The yeast NPC shares several features with the vertebrate NPC, despite being smaller and less elaborate. Many yeast nuclear pore proteins, or nucleoporins, have been identified by a variety of genetic approaches. nup2 mutants show genetic interactions with nsp1 and nup1 conditional alleles. Nup1p interacts with the nuclear import factor Srp1pand with the small GTPase Ran.