CDC23is an essential member of the anaphase-promoting complex, an E3 ubiquitin ligase in the ubiquitin-mediated proteolysis pathway. This protein contains tetratrico peptide repeats, a protein-protein interaction motif. The APC ubiquitin ligase helps regulate the metaphase/anaphase transition and exit from mitosis/G1 entry through ubiquitination of various substrates. These include mitotic cyclins, the sister chromatid separation inhibitor Pds1p, the Kip1p and Cin8p motor proteins, Cdc5p, and the spindle disassembly factor, Ase1p. Cdc23p has been shown to interact with other APC subunits including Mnd2p, Cdc16p and Cdc27p, as well as the N-terminus of Clb2p. Temperature-sensitive mutants of CDC23 arrest as large-budded cells with the nucleus at the neck and are defective in ubiquitination of Clb2p at non-permissive temperature. Cdc23p localizes to the nucleus, kinetochores/microtubule ends, and mitotic spindle in budding yeast.Many thanks to Patricia Melloy for writing this gene summary.