ASP3 encodes a nitrogen catabolite-regulated cell wall L-asparaginase II. It is one of two asparaginases in yeast, the other being the constitutive intracellular asparaginase I Asp1p, with which Aspp shares 46% identity. Asp3p catalyzes the conversion of L-asparagine to aspartate and ammonia. Asp3p is secreted in response to nitrogen starvation and appears to be regulated by Gln3p/Ure2p. ASP3 is located at the junction on chromosome XII with the rRNA genes and is repeated at least four times, to create ASP3-1, ASP3-2, ASP3-3, ASP3-4.