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**Two New D-E-A-D Box Genes Expressed in Ovaries of the Moth, *Plodia interpunctella*.** Omaththage P. Perera and Paul D. Shirk. Center for Medical, Agricultural and Veterinary Entomology, USDA ARS, Gainesville, FL

Degenerate PCR primers to the A- and B-ATP binding motifs of D-E-A-D box proteins were used to screen a library of *Plodia interpunctella* ovarian cDNA. Clones Piv2-6 and Piv2-17 of the PCR products contained the conserved ATP-A and ATP-B sequences that are common to RNA helicases. Full length cDNA clones isolated from the cDNA library showed these two RNA helicases have considerable regions of similarity with members of the D-E-A-D box protein family and contained most of the consensus motifs present in these proteins. However, the sequences between the conserved motifs of both RNA helicases were highly variable. Northern analysis of RNA from ovaries, testes, and body walls (fat body, epidermis, muscle, etc.) showed that the two helicases were highly expressed in the ovaries. Transcript localization and molecular characterization of genomic DNA clones are in progress.