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Annotated Expressed Sequence Tags for Studies on the Expression Pattern of Immunized *Plutella xylostella*

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The diamondback moth (*Plutella xylostella* L.), a cosmopolitan insect pest of cruciferous vegetables, has shown an extraordinary capacity to develop resistance to both synthetic insecticides and biopesticides. Despite this, the molecular mechanisms of the host immune defense system have received little attention. Here, we describe a collection of genes from *P. xylostella* immunized with Gram positive and negative bacteria. After cDNA cloning and sequencing, 1132 expressed sequence tags (EST) were annotated. The *P.xylostella* EST collection extraordinarily contained various sorts of ribosomal protein (77 contigs), insect hormone related protein (16 contigs), and immune related protein sequences (23 contigs). The insect hormone related protein sequences were divided by their supposed functions into hormone regulators and hormone-regulated proteins. Immune related genes are also grouped into protease and protease inhibitor, recognition molecules, antimicrobial peptides, and putative roles in immune response on the basis of the previously published studies. These genes will help to elucidate the mechanism of hormone regulation and immune response in *P. xylostella*.