

CHAPTER 3

OBJECTIVES

The work was focused on the functional study of Pm-syntenin, a protein proposed to be indirectly involved with the signaling transduction pathway. Pm-syntenin serves as an adapter or scaffolding protein that attaches other proteins to signaling components. The experiments were performed using in vivo and in vitro binding assay. The objectives of this study include:

1. To identify Pm-syntenin binding proteins from the haemocyte of white spot syndrome virus infected shrimp (*P.monodon*) by using yeast two hybrid screening.
2. To study the interaction of Pm-syntenin and Pm-syntenin binding protein using GST-pull down.
3. To determine the binding domains of Pm-syntenin and its binding protein.
4. To study the mRNA expression of Pm-syntenin binding protein in WSSV infected shrimp.