

# Syndrome virus(WSSV) structural protein VP15(ORF269) and VP32(ORF253)

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## ABSTRACT

In this study, we characterized two white spot syndrome virus (WSSV) structural proteins, VP15 (WSSV-T1 ORF269, GeneBank accession no. AF440570) and VP32 (WSSV-T1 ORF253, GeneBank accession no. AF440570). Temporal transcription analysis showed that VP15 is expressed in the early stage of WSSV infection. Yeast two-hybrid assays revealed that VP15 associated with VP19, VP26, VP95, VP51C, VP136, VP664, pmRACK1, F1ATP synthase beta subunit and itself. Yeast two-hybrid assays also demonstrated that VP32 interacted with VP187, VP19, VP60B, pmCBP, pmRACK1, F1ATP synthase beta subunit and pmCBP. Western blot analysis of viral protein fractions suggested that VP32 is a viral envelope protein. Membrane topology prediction showed that the VP32 is exposed outside of envelope without transmembrane domain.

Keywords : WSSV、VP15、VP32、structural protein、protein interaction

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