

Construction of Baculovirus/*Drosophila* S2 Expression System

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Two types of target gene expression systems are commonly used in insect cell culture. One is baculovirus infection system and the other is recombination system. We constructed a dual promoter vector system which has polyhedrin promoter for Sf9 cell and MT or Copia promoter for *Drosophila* S2 cell. This baculovirus/S2 expression system has advantages over conventional two expression systems. The baculovirus/S2 system does not cause cell lysis after baculovirus infection due to disability of virus replication. This system has efficient transfer and expression of target gene. Moreover, repetitive infections of multiple baculoviruses are possible over time. Therefore, we have studied of optimal condition for expression of foreign protein this advanced system.

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