

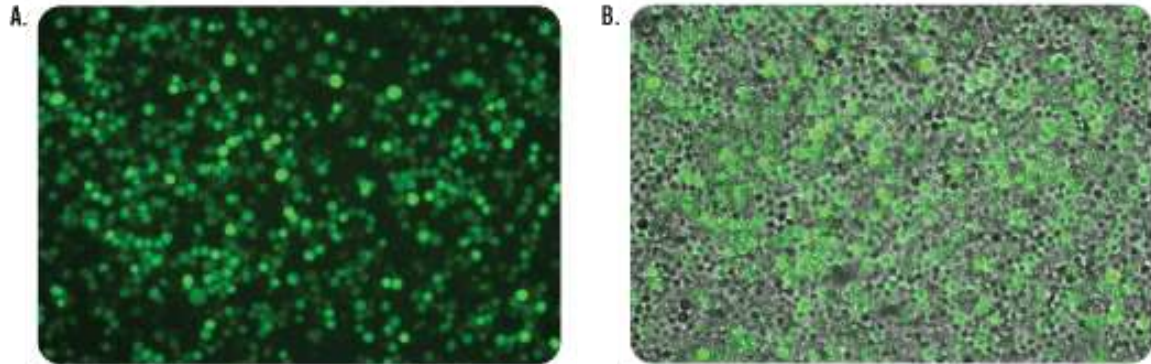
Figures and Data

[Efficient Transfection of Baculovirus Genomic DNA Using *TransIT*®-Insect Reagent](#)

[TransIT®-Insect Outperforms Competitor Transfection Reagents](#)

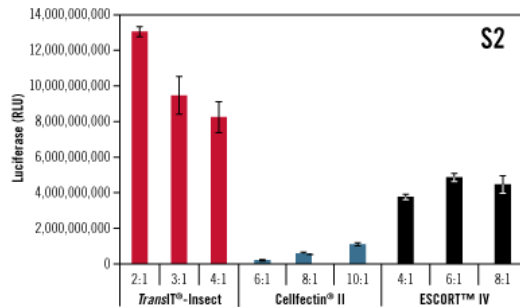
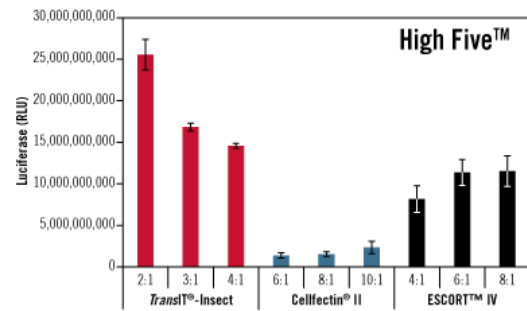
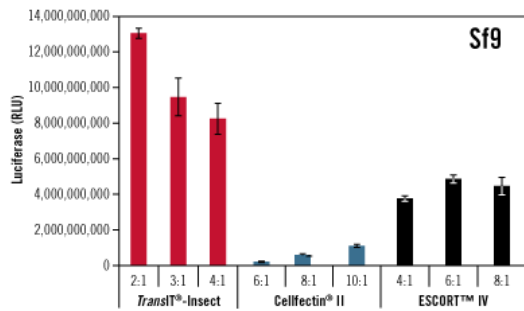
[Superior Recombinant Protein Expression in High Five™ Cells Using *TransIT*®-Insect](#)

[TransIT®-Insect Yields Increased Protein Expression Over Time](#)

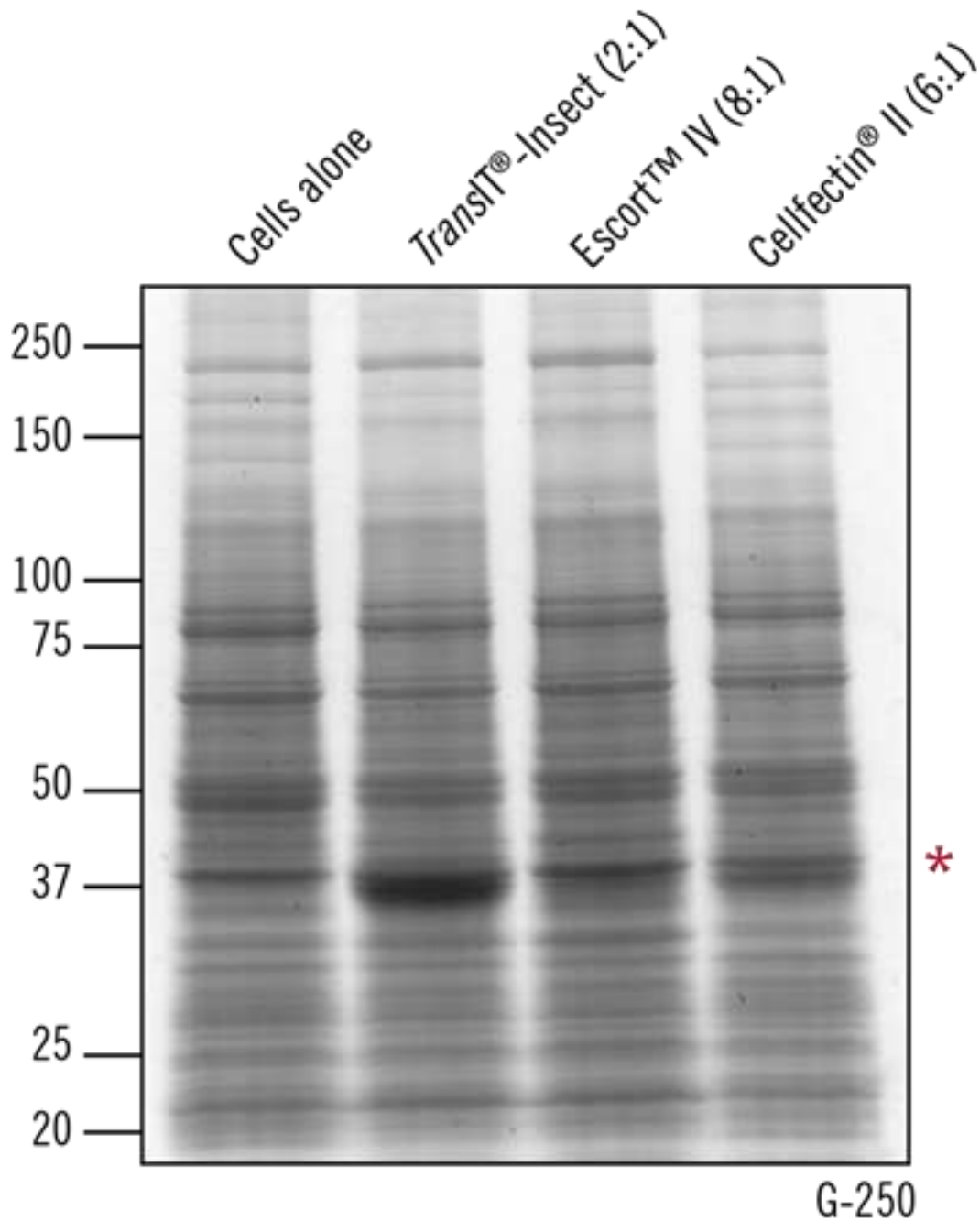


Efficient Transfection of Baculovirus Genomic DNA Using *TransIT*®-Insect Reagent.

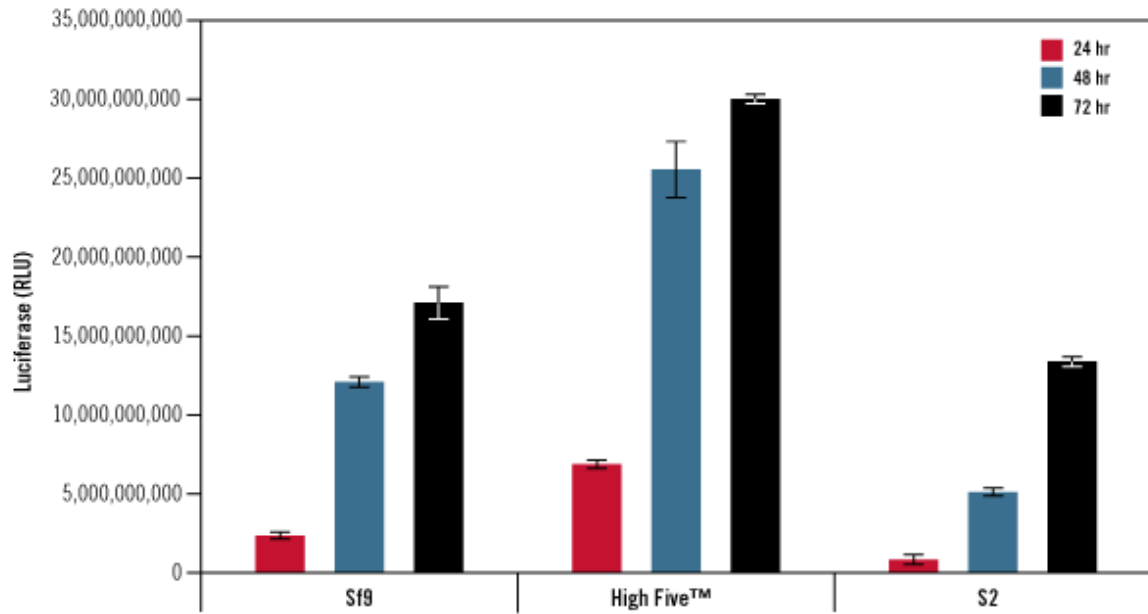
Transfections were performed in 6-well plates with 5×10^5 Sf9 cells per well using *TransIT*®-Insect Transfection Reagent at the reagent-to-total DNA ratio of 3:1 ($\mu\text{l}:\mu\text{g}$). Cells were co-transfected with 0.5 μg of ProGreen™ baculovirus genomic vector DNA (AB Vector) encoding green-fluorescent protein (GFP) and 0.1 μg of pVL1393 transfer vector (AB Vector). (A) Fluorescence and phase contrast images were taken at 6 days post-transfection using a Zeiss S100 fluorescent microscope. Merge shown in (B).



TransIT®-Insect Outperforms Competitor Transfection Reagents. Insect cell lines (A) Sf9, (B) High Five™, and (C) *Drosophila* S2 cells were transfected in 96-well plates with 0.1 µg of a luciferase expression plasmid driven by an hr5 enhancer/IE1 promoter using the designated reagent at the indicated reagent-to-DNA ratios (µl: µg). Luciferase expression was measured at 48 hours post-transfection. Sf9 and High Five™ cells were cultured and transfected in serum-free media formulations; S2 cells were in serum containing medium. Error bars represent the standard error of the mean for triplicate wells.



Superior Recombinant Protein Expression in High Five™ Cells Using *TransIT*®-Insect. High Five™ cells were transfected in 6-well plates with 2.5 µg of a GFP expression plasmid driven by an hr5 enhancer/IE1 promoter using the designated reagent at the indicated reagent-to-DNA ratios (µl: µg). Total soluble cell lysates were prepared from cells 72 hours post-transfection. Lysates from 100 µl culture were analyzed by SDS-PAGE and Coomassie blue staining; cells alone (untransfected) is shown as control. Expressed GFP containing 6X His, S, and HSV tags (~38 kDa) was clearly detected in the lysate from the cells that were transfected (*) with the highest level of expression observed at *TransIT*®-Insect:DNA ratio of 2:1.



TransIT®-Insect Yields Increased Protein Expression Over Time. Insect cell lines (A) Sf9, (B) High Five™, and (C) *Drosophila* S2 were transfected in a 96-well plate with 0.1 ug of a luciferase expression plasmid driven by an hr5 enhancer/IE1 promoter using the *TransIT®-Insect* Transfection Reagent at a reagent-to-DNA ratio of 2:1 (µl: µg). Luciferase expression was measured at three time points, 24, 48 and 72 hours post-transfection. Sf9 and High Five™ cells were cultured and transfected in serum-free media formulations; S2 cells were in serum containing medium. Error bars represent the standard error of the mean for triplicate wells.