

# TransPlus™ Virus Transduction Enhancer Protocol

**Catalogue number:** V020; Size: 100 ul and V050; Size: 500 ul

## Applications

TransPlus™ Virus Transduction Enhancer can increase the transduction rate of lentivirus or retrovirus up to 10-fold in most cells.

## Product Descriptions

TransPlus™ Virus Transduction Enhancer is a mixture of polymers optimized for the infection of lentivirus or retrovirus to most cells. It can increase the transduction rate up to 10 fold. TransPlus is provided as a 500x solution, sufficient for 100 transductions in a 24 well plate. It is intended for retroviral or lentiviral transduction.

## Protocol

1. On Day 1, Plate 50,000 cells per well in a 24 well plate in cell culture medium.
2. Cells should be between 50 to 70% confluent on Day 2
3. Aspirate medium from cells.
4. Combine culture medium with TransPlus to a 1X final concentration.
5. **Example:** Add 1 µl of TransPlus to 500 µl culture medium and then transfer to each well.
6. Add virus to each well and rock the plate to mix well.
7. Optional: Add virus to different wells at varying MOIs (5, 10 and 20, etc.) to optimize the transduction.
8. On Day 5, about 72 hours post transduction, check the cells for reporter expression if the viral construct has a reporter like GFP.
9. Aspirate medium. Wash the cells with PBS.
10. Add 100µl of Lysis Buffer to each well.
11. Titrate virus according to protocol given titration kit.

