

Procedure:

Protocol for suspend cells:

The following protocol is given for transfection in 24-well plate. The protocol can be scaled up or down according to culture volume (Table 2).

Cell Seeding: Suspension cells are typically seeded the day of the transfection at a density of 1.0~2.0 x 10⁵ cells per ml of culture. For optimal transfection conditions with TransfectGene Transfection Reagent, seed the number of cells adapted to the culture vessel format according to Table 3.

Transfection

Form the complex DNA(μg)/TransfectGene transfection Reagent (μl) as follows:

- Add the Serum-free Culture medium (without antibiotics) 30μl/well in a sterile plastic tube.
- Add plasmid DNA 1μg/well and mix by gentle pipetting
- Add TransfectGene Transfection Reagent 2~4μl/well and mix by gentle pipetting
- Incubate the mixture of DNA and TransfectGene Transfection Reagent solution at room temperature for 15 minutes.

Add DNA/ TransfectGene Transfection Reagent complex to cells in each well and mix by gentle shaking plate

Incubate cells at 37°C in a in CO₂ incubator for 18-48 hr.

Transfection experiments are usually stopped after 24 to 48 hours and gene activity assessed. Cells growing in suspension are collected by centrifugation at 800 x g and then resuspended in the desired medium or buffer.

Table 3. Recommended Number of Suspension Cells to Seed.

Culture Dish	Number of Cells
96-well plate	2 x 10 ⁴ – 5 x 10 ⁴
48-well plate	5 x 10 ⁴ – 1 x 10 ⁵
24-well plate	1 x 10 ⁵ – 2 x 10 ⁵
6-well plate	2 x 10 ⁵ - 5 x 10 ⁵
35 mm dish	5 x 10 ⁵ – 2 x 10 ⁶
60 mm dish	2 x 10 ⁶ – 5 x 10 ⁶
100 mm dish	5 x 10 ⁶ – 1 x 10 ⁷

Storage:

TransfectGene Transfection Reagent is stable for 12 months at +4 °C.

Cat. #	Product Name	Size
TR80180	TransfectGene Transfection Reagent	0.5 ml
TR80181	TransfectGene Transfection Reagent	1.0 ml

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