

## GenJet™ Reagent Short Protocol – siRNA Transfection

### DAY 1: Prepare GenJet™ Transfection Buffer (1x ) working solution and cell seeding

- ▶ Dilute one part of stock solution of GenJet™ Transfection Buffer (5x ) with 4 parts of ddH<sub>2</sub>O to make GenJet™ Transfection Buffer working solution (1x ).
- ▶ Cell seeding = ~50% confluency at the day of transfection.

### DAY 2: Transfection mix = GenJet™ reagent Y (μL) with X pmol siRNA at final 5.0 nM

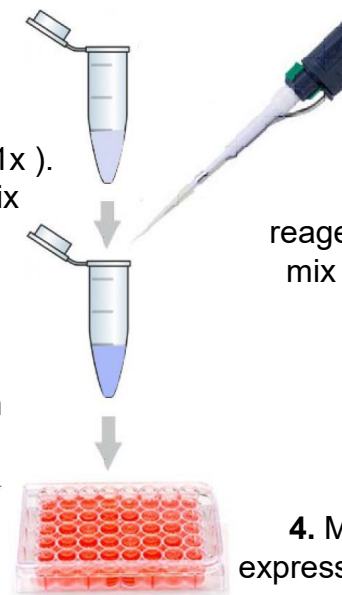
- ▶ Perform transfection in the presence of serum/antibiotics.
- ▶ Use GenJet™ Transfection Buffer (1x ) only.
- ▶ Perform siRNA transfection referring to the picture and table below.

1. Dilute X pmol of siRNA in W μL of GenJet™ Buffer (1x ). Vortex briefly to mix

2. Add Y μL of GenJet™ reagent. Vortex to mix and incubate 10 min at RT

3. Add transfection mix to the cells in serum- containing medium

4. Measure gene expression Kd 48 to 72 h post transfection



| Culture Dish     | Growth Medium (mL) | Transfection Buffer (1x ) (μL) - <u>W</u> | siRNA (pmol) Final 5.0 nM - <u>X</u> | GenJet™ Reagent (μL) – <u>Y</u> |
|------------------|--------------------|-------------------------------------------|--------------------------------------|---------------------------------|
| 24-well          | 1                  | 50                                        | 5.0                                  | 1.2                             |
| 12-well          | 1.5                | 75                                        | 7.5                                  | 2.0                             |
| 6-well           | 2                  | 100                                       | 10                                   | 2.4                             |
| 60 mm            | 5                  | 300                                       | 25                                   | 7.2                             |
| 10 cm / Flask 75 | 10                 | 600                                       | 50                                   | 15                              |

### DAY 3~4: Measure knock-down of the gene expression

**Important: GenJet™ siRNA Transfection Reagent differs significantly from GenJet™ DNA Transfection Reagent in both chemistry and formulation. Please ensure you purchase the appropriate reagent for your intended application.**

