

## DNA TRANSFECTION



# jetPRIME™ Short Protocol

(see back for siRNA transfection)

### Cell seeding: Cells 70% confluent at time of transfection

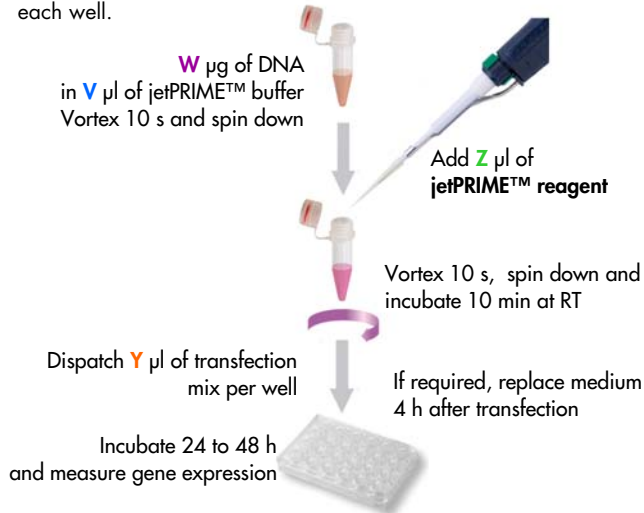
Seed cells in **X** ml of growth medium according to the following table one day before transfection.

#### Quantities per well, dish or flask

Culture vessel	Number of cells	<b>X</b> volume of growth medium during transfection
24-well	50 000 – 80 000	<b>0.5 ml</b>
3.5 cm / 6-well	150 000 – 250 000	<b>2 ml</b>
10 cm / flask 75 cm <sup>2</sup>	1 000 000 – 2 000 000	<b>10 ml</b>

### Transfection: 1:2 DNA to jetPRIME™ reagent ratio

► Prepare the transfection mix, and dispatch the appropriate amount in each well.



#### Quantities per well, dish or flask

Culture vessel	<b>V</b> volume of jetPRIME™ buffer	<b>W</b> amount of DNA added	<b>Z</b> volume of jetPRIME™ reagent	<b>Y</b> volume of transfection mix added
24-well	<b>100 µl</b>	<b>1 µg</b>	<b>2 µl</b>	<b>50 µl</b>
3.5 cm / 6-well	<b>200 µl</b>	<b>2 µg</b>	<b>4 µl</b>	<b>200 µl</b>
10 cm / flask 75 cm <sup>2</sup>	<b>500 µl</b>	<b>10 µg</b>	<b>20 µl</b>	<b>500 µl</b>

## siRNA TRANSFECTION



# jetPRIME™ Short Protocol

(see back for Gene transfection)

### Cell seeding: Cells 50% confluent at time of transfection

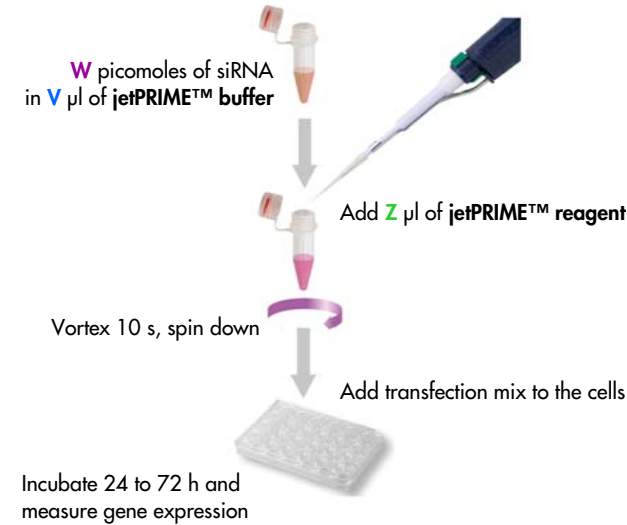
Seed cells in **X** ml of growth medium according to the following table

#### Quantities per well, dish or flask

Culture vessel	Number of cells	<b>X</b> volume of growth medium during transfection
24-well	20 000 – 80 000	<b>0.5 ml</b>
3.5 cm / 6-well	100 000 – 150 000	<b>2 ml</b>
10 cm / flask 75 cm <sup>2</sup>	500 000 – 1 000 000	<b>10 ml</b>

### Transfection: 10 to 50 nM of siRNA

► Prepare the transfection mix, and add to the cells in growth medium



#### Quantities per well, dish or flask

Culture vessel	<b>V</b> volume of jetPRIME™ buffer	<b>W</b> amount of siRNA added	<b>Z</b> volume of jetPRIME™ reagent
24-well	<b>50 µl</b>	<b>5.5–27.5 pmoles</b>	<b>2 µl</b>
3.5 cm / 6-well	<b>200 µl</b>	<b>22–110 pmoles</b>	<b>4 µl</b>
10 cm / flask 75 cm <sup>2</sup>	<b>500 µl</b>	<b>105–525 pmoles</b>	<b>20 µl</b>