

#### Product data sheet

Human TMPRSS2 Knockout HEK293T cell line

Catalog Number: 293TKO-19579

Storage: Liquid nitrogen

Components: One vial of gene knockout cells (1x10^6 cells) and one vial of control parental

cells (1x10^6)

### **Product description**

Engineered clonal HEK293T cells with TMPRSS2 gene knockout, sequence confirmed.

### **Cell line description**

Parental cell line: HEK293T Genotype: TMPRSS2-/-

Organism: Homo sapiens (human)

Tissue: kidney; Embryo Morphology: epithelial

Culture Properties: Adherent

Biosafety Level: 2

#### Medium

1. Complete culture medium: DMEM, 10% fetal bovine serum (FBS)

2. Freeze medium: FBS with 6% DMSO

#### **Culture procedure**

#### Thawing of frozen cells

- 1. Thaw the frozen cryovial by gentle agitation in a 37 °C water bath in 1-2 minutes.
- 2. Remove the cryovial from the water bath as soon as the contents are thawed, and decontaminate by wiping with 70% ethanol.
- 3. Transfer the thawed cell suspension to a centrifuge tube containing 10 ml of Complete culture medium, centrifuge at 500 g for 5 minutes.
- 4. Remove the medium by aspiration, resuspend the cells with 10 ml of the Complete culture medium by gently pipetting up and down.
- 5. Transfer the cells to a 10 cm cell culture dish.
- 6. Place the cells in a 37°C incubator with 5% CO2.

# Sub-culturing

Volumes are given for a 10 cm cell culture dish. Increase or decrease the amount of dissociation medium needed proportionally.

- 1. Remove the medium by aspiration.
- 2. Briefly rinse the cell layer with 1xDPBS to remove all traces of serum that contains trypsin inhibitor.
- 3. Add 1 ml of Trypsin-EDTA (0.05%) solution to the dish and observe cells under an inverted microscope until cell layer is dispersed.
- 4. Add 4 ml of complete growth medium and aspirate cells by gently pipetting.
- 5. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C with 5% CO2.

## Sequence verification

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There are 10 bp and 43 deletions in exon 5.