

DAN-G | 300162

General information

Description	DAN-G is a lentiviral vector system for the stable transduction of cells. It consists of a plasmid encoding the viral genome and a plasmid encoding the viral envelope. The system is used to generate lentiviral particles, which are then used to infect target cells. The infected cells will express the transgene under the control of the viral promoter.
Organism	Human
Tissue	Various tissues
Disease	Various diseases
Synonyms	DAN-G, DAN-G, DAN-G

Cellular properties

Age	68 years
Gender	Male
Morphology	Epithelial cells
Growth properties	Highly proliferative

Cellular properties

Citation	DAN-G (Cytion 300162)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0243

Cellular properties

Protein expression	P53 protein
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Product sheet

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Tumorigenic Yes, tumorigenic in mice

Mutational profile DAN-G harbours a constitutively active Kras G12S mutation (GGT(Gly) >GTT(Val))

Characteristics

Culture Medium RPMI 1640, w: 2.0 mM Glutamine, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 33 hours

Subculturing Cells are grown in 96-well plates in DMEM supplemented with 10% FBS. For passaging, cells are seeded into T25 flasks, 3-5 x 10⁵ cells per flask. Once cells reach confluence, medium is removed and cells are trypsinized. Cells are then seeded into new flasks at a density of 1 x 10⁵ cells per flask.

Seeding density 3 x 10⁴ x 4 x 10⁴ cells per flask

Fluid renewal 2-3 times per week

Post-Thaw Recovery Cells are thawed in a 37°C water bath and seeded into a 96-well plate. After 24 hours, medium is replaced with fresh DMEM supplemented with 10% FBS.

Freeze medium Cells are seeded into a 96-well plate and grown to confluence. Medium is removed and cells are trypsinized. Cells are then seeded into new flasks at a density of 1 x 10⁵ cells per flask. Cells are then seeded into new flasks at a density of 1 x 10⁵ cells per flask.

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**Thawing and
Culturing Cells**

1.

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 100 µl of DMEM. Seed the cells into a 24-well plate (100 µl per well) and incubate for 24 hours.
2.

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 100 µl of DMEM. Seed the cells into a 24-well plate (100 µl per well) and incubate for 24 hours.
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5.

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6.

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7.

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8.

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**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Not required

**Freezing
Procedure**

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 100 µl of DMEM. Seed the cells into a 24-well plate (100 µl per well) and incubate for 24 hours.

**Shipping
Conditions**

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 100 µl of DMEM. Seed the cells into a 24-well plate (100 µl per well) and incubate for 24 hours.

**Storage
Conditions**

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 100 µl of DMEM. Seed the cells into a 24-well plate (100 µl per well) and incubate for 24 hours.

Additional Information

Sterility

Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 100 µl of DMEM. Seed the cells into a 24-well plate (100 µl per well) and incubate for 24 hours.

XXXXXXXX DAN-G | 300162

XXXXXXXX HLA

A*: 02:01:01

B*: 07:02:01, 13:02:01

C*: 06:02:01, 07:02:01

DRB1*: 07:01:01, 15:01:01

DQA1*: '01:02:01, '02:01:01

DQB1*: '02:02:01, '06:02:01

DPB1*: 04:01:01, 17:01:01

E: 01:03:02