

### U2OS-CRISPR-SNAPf-Nup358/RanBP2 | 300663

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**Description**

U2OS-CRISPR-SNAPf-Nup358/RanBP2 is a cell line derived from U2OS cells. It is characterized by the presence of a CRISPR-Cas9 system targeting the Nup358/RanBP2 gene. The cells are stably transfected with a SNAPf expression vector. The Nup358/RanBP2 protein is a nuclear pore complex (NPC) component. The SNAPf tag is used for live-cell imaging of the NPC. The Nup358/RanBP2 protein is also involved in the regulation of CRM1/exportin1-mediated nuclear export of Ran GTPase.

**Organism** *Homo sapiens*

**Tissue** *U2OS*

**Disease** *U2OS*

#### U2OS-CRISPR-SNAPf-Nup358/RanBP2

**Age** 15 days

**Gender** Male

**Ethnicity** *Homo sapiens*

**Morphology** *U2OS*

**Growth properties** *U2OS*

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**Citation** U2OS-CRISPR-SNAPf-Nup358/RanBP2 (U2OS-CRISPR-SNAPf-Nup358/RanBP2 | 300663)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**Depositor** *U2OS* (EMBL)

**GMO Status** *U2OS-CRISPR-SNAPf-Nup358/RanBP2* S1: *U2OS-CRISPR-SNAPf-Nup358/RanBP2* (U2OS-CRISPR-SNAPf-Nup358/RanBP2)

Product sheet

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**Protein expression** Nup358/RanBP2, SNAPf-tag

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**Culture Medium** DMEM 5 ml 3.0 g/l / 10% FBS 2.0 ml 2.2 g/l NaHCO3 (10% FBS)

**Supplements** 10% FBS 3.0 g/l / 2.0 ml 2.2 g/l NaHCO3

**Dissociation Reagent** Trypsin

**Subculturing** 10% FBS DMEM 5 ml 3.0 g/l / 10% FBS 2.0 ml 2.2 g/l NaHCO3

**Freeze medium** DMEM 5 ml 3.0 g/l / 10% FBS + 10% DMSO

**Thawing and Culturing Cells**

1. Thaw cells in a 37°C water bath.
2. Add 10% FBS DMEM 5 ml 3.0 g/l / 10% FBS 2.0 ml 2.2 g/l NaHCO3.
3. Seed cells into a 24-well plate (100,000 cells/well).
4. Incubate cells for 70% confluency.
5. Seed cells into a 24-well plate (100,000 cells/well).
6. Incubate cells for 300 x 3.
7. Incubate cells for 10.
8. Incubate cells for 10.

**Incubation Atmosphere** 37°C 5% CO2

