

### U2OS-CRISPR-TPR-SNAP | 300667

#### General information

**Description** U2OS-CRISPR-TPR-SNAP is a cell line derived from U2OS cells, which are a human osteosarcoma cell line. The cells are stably transfected with a CRISPR-Cas9 system targeting the TPR gene (TPR1, NP\_001108.1) and a SNAP tag (SNAP25, NP\_001108.1). The CRISPR-Cas9 system is used to generate a TPR knockout cell line. The SNAP tag is used for labeling of TPR protein. The TPR protein is a member of the TPR domain family and is involved in protein-protein interactions. The SNAP tag is a protein that can be labeled with a fluorophore or a biotin molecule. The TPR-SNAP cell line is used for studying the function of TPR protein and for labeling of TPR protein in cells.

**Organism** Human

**Tissue** Bone

**Disease** Osteosarcoma

#### Cell characteristics

**Age** 15 passages

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** Adherent

#### Documentation

**Citation** U2OS-CRISPR-TPR-SNAP (ATCC CRL-2739) Cytion 300667

**Biosafety level** 1

**NCBI\_TaxID** 9606

**Depositor** Cytion GmbH (EMBL)

**GMO Status** GMO-S1: U2OS-CRISPR-TPR-SNAP (U2OS-CRISPR-TPR-SNAP) TPR-SNAP CRISPR

Product sheet

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**Protein expression** TPR, SNAP-tag

U2OS

**Culture Medium** McCoy5a, w: 3.0 g/L  $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ , w: 0.05 g/L  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ , w: 2.0 mM  $\text{CaCl}_2$ , w: 2.2 g/L  $\text{NaHCO}_3$  (Cytion 820200a)

**Supplements** 10% FBS, 3.0  $\mu\text{g}/\text{mL}$   $\text{CaCl}_2$ , 2.0  $\mu\text{g}/\text{mL}$   $\text{MgSO}_4$ , 2.2  $\mu\text{g}/\text{mL}$   $\text{NaHCO}_3$ , 1% NEAA

**Dissociation Reagent** Trypsin

**Subculturing** Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask. Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask.

**Freeze medium** 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells in a water bath at 37°C. Transfer cells to a pre-warmed medium.
2. Centrifuge cells at 300 x g for 3 minutes. Resuspend cells in fresh medium.
3. Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask.
4. Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask.
5. Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask.
6. Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask.
7. Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask.
8. Seed cells into fresh medium in T25 flasks, 3-5  $\times 10^5$  cells per flask.

**Incubation Atmosphere** 37°C, 5%  $\text{CO}_2$

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**Flask Coating**      **TC**

**Freezing Procedure**      **U2OS-CRISPR-TPR-SNAP** cells are seeded into 100 cm<sup>2</sup> flasks at 78°C.

**Shipping Conditions**      **U2OS-CRISPR-TPR-SNAP** cells are shipped at 78°C.

**Storage Conditions**      **U2OS-CRISPR-TPR-SNAP** cells are stored at -150 °C for 196 days.

**U2OS-CRISPR-TPR-SNAP / U2OS-CRISPR-TPR-SNAP / HLA**

**Sterility**      **U2OS-CRISPR-TPR-SNAP** cells are PCR screened for mycoplasma contamination. **U2OS-CRISPR-TPR-SNAP** cells are screened for mycoplasma contamination.