ANGIO-PROTEOMIE

DATA SHEET

**GFP Expressing Mouse 4T1 Cells**

**Order Information**

**Product Name:** GFP-expressing mouse 4T1 Cells
**Catalogue Number:** **cAP-m0100GFP**
**Product Format:** Frozen Vials
**Cell Number:** > 5 x $10^5$cells/vial

**General Information**

Mouse 4T1 (cAP-m0100) is a 6-thioguanine resistant cell line selected from the 410.4 tumor without mutagen treatment. RMPI-1640 containing 10% serum is recommended for 4T1 cell expansion and these cells have a guaranteed average >50 additional population doubling levels when cultured following the detailed protocol described below.

GFP-expressing 4T1 cells (cAP-m0100GFP) are puromycin resistant cells after transfected with lentiviruses expressing GFP under the control of CMV promotoers.

GFP-expressing 4T1 cells are negative for bacteria, yeast, fungi, and mycoplasma.

**Product Use:** GFP-expressing 4T1 cells are for Research use only.

**Shipping:** Frozen vials in dry ice Package.

**Handling of Arriving Cells**

When you receive the cells in a frozen vial, you can transfer the vial of cells into a -80ºC freezer for short period storage or a liquid nitrogen tank for long term storage. Thaw the cells in a 37°C water bath, and then transfer the cells in a T25 flask as described in details in Subculture Protocol.

**Subculture Protocol**

A) Rinse the cells in T25 flask with 5ml HBSS (**Room Temperature, RT**) twice.
B) Add 2ml of Trypsin/EDTA (**RT**) (cAP-23) into one T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the excessive Trypsin/EDTA solution **within 20 seconds** with aspiration.
C) Leave the T25 flask with the cells at **RT** for 1 minute (the cells usually will detach from the surface within 1-2 minutes). You can monitor the cells under microscope and when most of cells become rounded up, hit the flask against the bench surface, and the cells will move on the surface of the flask when monitoring under microscope.
D) Add 5ml Trypsin Neutralization Buffer and spin the cells down with 800g for 5 minutes.
E) Re-suspend the cell pellet with 10 - 15ml of full medium and the cell suspension is transferred directly into 2 or 3 pre-coated T25 flasks (5ml each, and the cells are sub-cultured at 1:2 to 1: 3 ratios)
F) Change medium every 2-3 days and cells usually become confluent within 7 days.
G) If you need prepare quiescent cells, when cells are almost confluent, replace EGM full medium with Endothelial Basal Medium (EBM, cAP-03) containing 0.5% FBS about 8-12 hours before your experiments.

**Related Products:**

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| HBSS w/o $Ca^{2+}$ , $Mg^{2+}$ | cAP-11 | 100ml | Angio-Proteomie |
| Cell Freezing Solution (FBS) | cAP-22 | 50ml | Angio-Proteomie |
| Cell Freezing Solution (Non-FBS) | cAP-22B | 50ml | Angio-Proteomie |
| Trypsin/EDTA Solution | cAP-23 | 100ml | Angio-Proteomie |
| Trypsin Neutralization Solution | cAP-28 | 100ml | Angio-Proteomie |

**THESE PRODUCTS ARE FOR RESEARCH USE ONLY**
**Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, or pathogens, diagnostic tests are not necessarily 100% accurate; therefore proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.**

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