Fluorescence measurement

Material

Ampicillin antibiotics (Solarbio)

Arabinose (Solarbio)

Luria-Bertani liquid medium

Procedure

- 1. The cell populations were plated on LB agar with ampicillin antibiotics and individual colonies were subsequently grown overnight in 5ml Luria-Bertani liquid medium.
- **2.** Cultures were back diluted 1:100 into fresh Luria-Bertani liquid medium with ampicillin antibiotics and 0.2% arabinose.
- **3.** After growing for about 6-7hours, cells are on the logarithmic phase and we test the fluorescence of GFP and mCherry.
- **4.** The OD600 and GFP and DsRed fluorescence were measured using a Varioskan Flash Multimode Reader(Thermo Scientific) until cells are on the logarithmic phase.
- **5.** Set our instrument parameters and set up a 96-well plate with our culture. Then take the measurement and record it. The run software version is Skanlt Software 2.4.5 RE for Varioskan Flash.
- 6. GFP and mCherry were measured at excitation/emission wavelengths of 485
- **7.** nm/520 nm and 587nm/610 nm, respectively. Each fluorescence value was normalized to the number of cells by dividing by the OD600.