

Induction of protein expression in OT-2

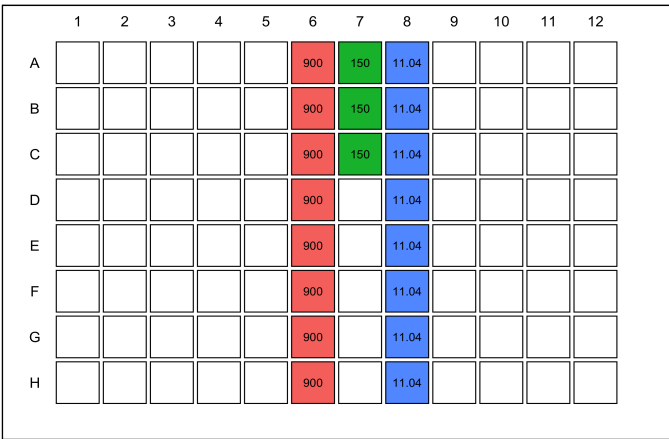
Quick Overview

Once the cultures have reached the desired growth phase, the robot transfers cells to appropriate plates. The robot adds an inducer to the cultures. After induction, cultures are incubated to allow for protein expression.

Preparation

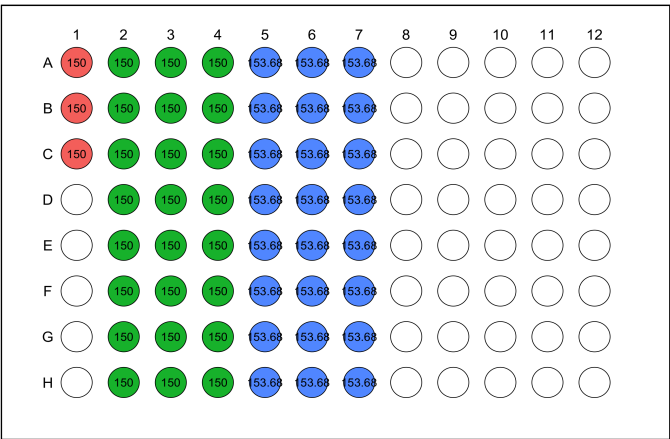
Prepare the reagents and labware according to the below diagrams. Volumes (uL) indicate how much of reagents will be used, so add additional volume.

USA Scientific 96 Deep Well Plate 2.4 mL in slot 3



BL21(DE3) LB+carbenicillin arabinose

Armadillo 96 Well Plate 200 uL PCR Full Skirt in slot 2



LB+carbenicillin BL21(DE3) arabinose+BL21(DE3)

Deck Loading Instructions

- Check that p20_multi_gen2 is in the right mount, and p300_multi_gen2 is in the left mount.
- Slot 6 : load opentrons_96_tiprack_20ul for the p20_multi_gen2 pipette.
- Slot 9 : load opentrons_96_tiprack_300ul for the p300_multi_gen2 pipette.
- Slot 3 : load usascientific_96_wellplate_2.4ml_deep containing blank for the plate reader.
- Slot 3 : load usascientific_96_wellplate_2.4ml_deep containing the cell culture.
- Slot 3 : load usascientific_96_wellplate_2.4ml_deep containing the inducer.
- Slot 2 : load armadillo_96_wellplate_200ul_pcr_full_skirt where the induction occurs.