

INSTRUCTION FOR LOCATING COSMID CLONES TO 384-WELL PLATE

Each 384-well plate originated from four 96-well plates. The cosmid clone IDs are based on an original 96-well plate. When 4 plates - A, B, C, D - are combined into a 384-well plate, each plate goes into a quadrant:

A1|B1|A2|B2|
C1|D1|C2|D2| ...etc.

Plate 1: A is **RED**

Plate 2: B is **BLUE**

Plate 3: C is **GREEN**

Plate 4: D is **ORANGE**.

To locate a cosmid clone in a 384-well plate, you need to find the clone's original 96-well plate location, then match that location to the correct well of a 384-well plate.

For example: clone PSBLX65

- The first 5 letters represents original 96-well plate name and the last 2 numbers are the clone number on that plate. So, the 96-well plate we are looking for is PSBLX and the location is 65th well.
- Find the right 384-well plate. Check the plate name on the sheet "**Cosmid Plate List**". Each 384-well plate name is a composite of 4x96 well plates. The PSBLX plate is the 2nd 96-well plate on the 384-well plate PSBLW_LX_LY_LZ1C.
- Check the "**Map of 384 well plates**" to find the color. The 2nd 96-well plate is labeled as BLUE on 384-well plate map, and the 65th well corresponds to the 250th well of the 384-well plate, which is K10.

So the clone PSBLX65 is located on K10 of the 384-well plate PSBLW_LX_LY_LZ1C.

Example 2: clone ToxO284

- The first 5 letters or letter/number combination represents original 96-well plate name and the last 2 numbers are the clone number on that plate. So, the 96-well plate we are looking for is ToxO2, and the location is 84th well on this plate.
- Check the "**Cosmid Plate List**" the ToxO2 is the 3rd plate on the 384-well plate ToxO0_O1_O2_O31C.
- Check the 384-well plate map to find the color. The 3rd 96-well plate is labeled as GREEN, and the 84th well corresponds to the 335th well on the 384-well plate, which is N23.

The clone ToxO284 is located on N23 of the 384-well plate ToxO0_O1_O2_O31C.