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## Colony PCR for screening transgenic yeast

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Wear safety equipments when handling sodium hydroxide (NaOH) and microwave.

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Prepare [M]10 millimolar (mM) sodium hydroxide (NaOH)

1 Pick single yeast colony from the transformation plate and re-streak to a fresh plate with appropriate selection marker.



Individual yeast colonies on the transformation plate.



Re-streaked (master) plate containing 20 representative colonies from the original transformation plate.

2	Incubate the plate in a § 30 °C incubator for 2 days.
3	After 2 days, pick around 8 colonies from the re-streaked plate using the smallest micropipette tip or sterile wooden toothpick.
4	Re-suspend the cells into $\  \  \  \  \  \  \  \  \  \  \  \  \ $
5	Microwave the PCR tubes at the highest power setting for $\circlearrowleft$ <b>00:05:00</b> .
	The tubes will be hot. Care should be taken while handling the tubes after microwaving.
6	Take the PCR tubes out of the microwave oven and briefly spin to pellet down the cells using a bench-top centrifuge.
7	Without disturbing the pellet, carefully aspirate $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
8	The PCR reaction mix and the primer annealing temperatures can be adjusted depending on the polymerase and the primer pair used.