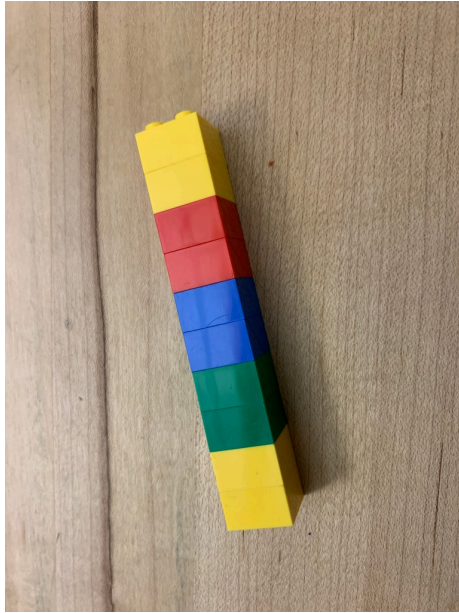


LEGO DNA Sequencer

Calibration Steps

2024-09-25 Rev 0.1

1. Assemble the LEGOs for the CALIBRATION TEST GENOME



2. DNA Sequence the CALIBRATION TEST GENOME

Sequencing this known order of bricks will enable the system to adjust the channel threshold levels used to identify the Red, Green, Blue, and Yellow colors detected by the color sensor.

Calibration is **OK** if you see:

Successful Match

YYRRBBGGYY TEST

Calibration **FAILED** if you see:

DNA not a match

UNKNOWN DNA!

Continue to step #3

3. After sequencing, and failing to recognize the CALIBRATION TEST GENOME, you will need to go to:
 - a. Select ADVANCED operation
 - b. Select AUTO CHANNEL
 - c. Confirm that you have just DNA Sequenced the CALIBRATION TEST GENOME
 - d. It will then display the current channel threshold values for CLEAR, RED, and BLUE
 - e. Press the button to continue
 - f. After clicking the button It will show the new recommended values
 - g. Select YES to confirm the new values or NO to continue without changing the channel settings