Take out box of reagents and allow to warm up to room temperature before using (~45minutes)

Gel-Dye mix is good for 1 month

Preparing Gel-Dye Mix: Add 25µL DNA dye concentrate (blue) to a DNA gel matrix vial (red)
Vortex well, transfer to spin filter tube
Spin at ~2240g (5000 rpm) for 15 minutes
Discard filter and label tube with initials and date made

Loading a Chip: Add 9µL Gel-Dye Mix into the well marked "G" with a dark circle
Place chip onto priming station
Make sure plunger is at 1mL
Close priming station, silver clip on base will click shut
Press down on plunger until syringe clip holds plunger in place
Wait 1 minute
Release syringe clip and wait for the syringe to rise up on its own
Slowly pull plunger back to 1mL position
Release silver clip on base of station
Remove the chip from the station

Add 9µL Gel-Dye Mix (blue) into the 2 wells labeled "G"
Add 1µL Ladder (yellow) into the well marked with a ladder symbol
Add 5µL Marker (green) into the ladder well
Add 5µL marker (green) in all wells that will contain sample
Add 6µL marker (green) in all wells that will not contain sample
Add 1µL sample to appropriate sample wells

Remove bubbles: Place chip onto vortexer (place back end in first)
Vortex for 1 minute at the indicated setting

Note: Run chip within 5 minutes of preparing it

Run chip: Open the lid of the Bioanalyzer
Place chip into slot
Close the lid of the Bioanalyzer
The chip should appear as an icon
Select/verify Assay→Electrophoresis→dsDNA→DNA 1000 Series II
Name your chip to include case # and item #
Choose the number of wells to be run

Click Start*
Name your samples in the sample information table to include
case # and item #
Fill in chip and kit lot #'s
Information is automatically saved to the chip

*Alternatively, naming your samples and filling in lot # information can be done prior to hitting Start

End of Run: When all wells have been analyzed, the machine will beep
Remove your chip from the Bioanalyzer and place into biohazard bucket
Fill the cleaning chip with 350µL of dH_20 to clean the electrodes
Place cleaning chip into the Bioanalyzer and close the lid for 10 seconds
Lift the lid, remove the cleaner, and wait 10 seconds
Close the lid

Analyzing Results: The concentration of NC's and RB's must be less than or equal to 10% of your sample to proceed to cycle sequencing. Refer to mtDNA SOP-1 when NC's and RB's are greater than 10%.

Note: With Knowns processed in a batch using the EZ1 Advance XL and amplified in a set, The NC and RB of the set, must be less than or equal to 10% of the individual sample to proceed to cycle sequencing. For example, some samples in the set may qualify for cycle sequencing while others may not.

Your Positive control and Sample must be greater than or equal to 1ng/µL to proceed to cycle sequencing

Printing out Data Sheets: Under 'Data View', go to File→Print
You will be presented with options, click on/verify the following:
Print Item Tab: Electropherograms, Results Table
Wells Tab: Wells 1-8 (or the number of wells run)
Options Tab: 4 per page
Alternatively, quant data can be saved to a thumb drive.

Note: After sequencing on the 3130- your NC's/RB's cannot be the same sequence as your sample.