

To run nested PCR for Case A of the Malaria case:

1. Click the DNA button and shift-click to open all the DNA files in the Case A folder.
2. Click the Probe button and shift-click to open the primers 'all four species multiplex.txt' and 'General Plasmodium.txt' (you don't have to open any of the other primer files in that folder).
3. Click the line in the 'Opened & processed' (O&P) window that corresponds to the General Plasmodium primer, then shift-click to highlight lines for the DNA files in the O&P window (except for the first line corresponding to the DNA ladder)
4. Use the Run button (or Run menu) and select 'Run PCR'.
5. Click the line in the O&P window that corresponds to 'primers all four species multiplex'.
6. Shift-click to highlight the PCR products (six lines with (PCR) at the end).
7. Use the Run button (or Run menu) and select 'Run PCR'.
8. Shift-click to highlight the new PCR products (six lines with (PCR)(PCR) at the end).
9. Use the Quick Load / Run button at the bottom of the O&P window and select 'DNA gel -> Load wells. This will load the first six wells of the gel.
10. Scroll up to the top of the O&P window and select DNA_100_bp_marker.txt
11. Click the white button next to well 7 and click the Load button, to load the marker into the 7th well.
12. Click the Run button and select 'Run DNA or protein gel'.
13. Click one of the colored buttons under the gel so that the PCR products and ladder are visible.
14. To see the size of a particular band, first click in the lane for that band, then hover your mouse cursor over the band, and the band size will appear in bp. You can also use the Gel menu and select 'Band sizes', and the distances will be replaced with sizes in kb.