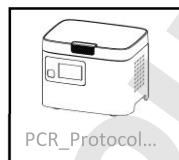


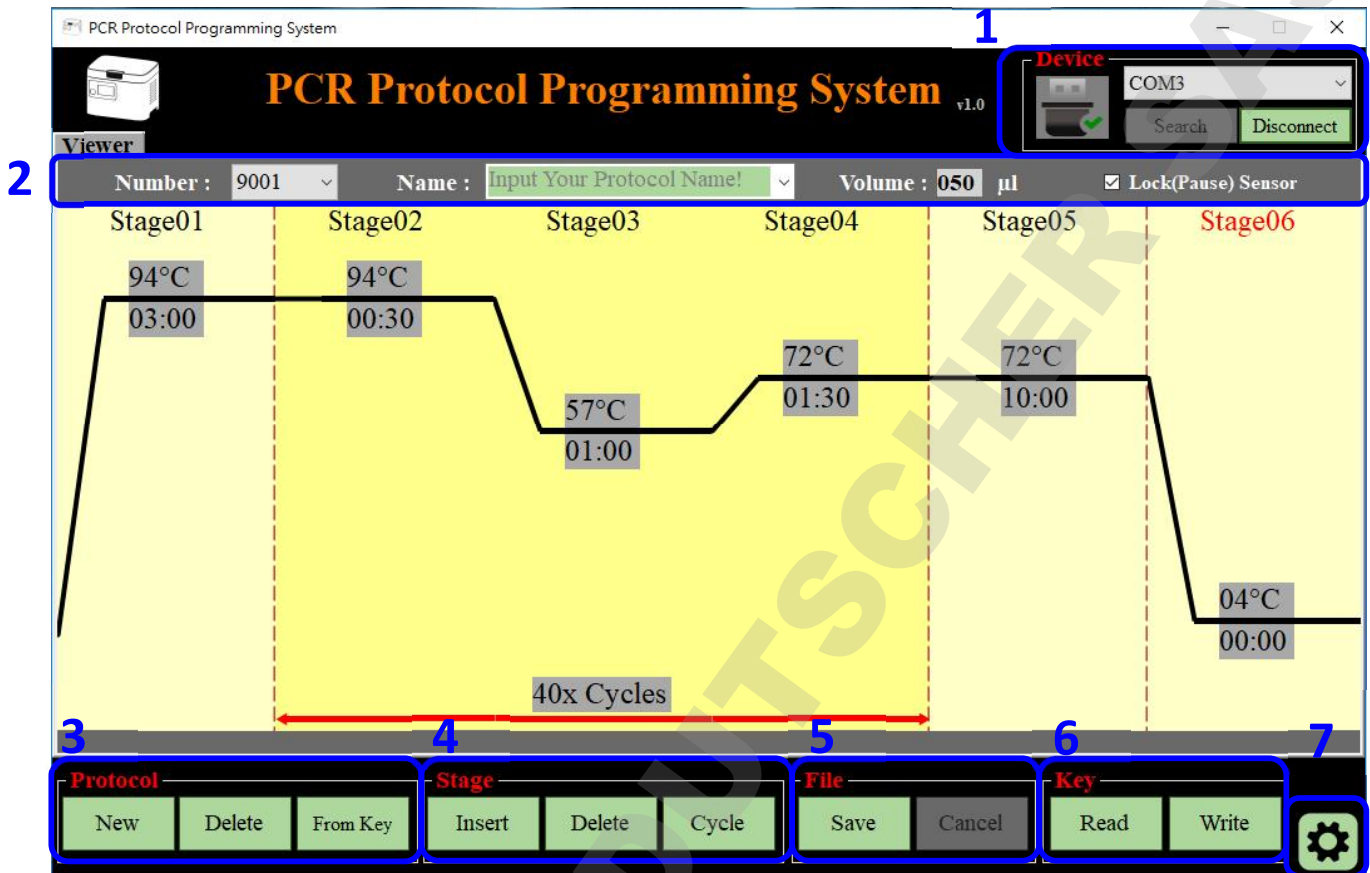
A. MiniTurbo Writer and Chip preparation:



- Step 1. Install the software of *PCR protocol programming system* in PC. The download link of software driver is at the last page of MiniTurbo software operation manual.
- Step 2. Insert the Programmable Chip into the *MiniTurbo* Writer, and connect the USB to the PC.
- Step 3. Double click the icon to open the *PCR protocol programming system*.



B. Software interface:



1. Device Connect:

- **Search:** Search the device (*MiniTurbo* Writer).
- **Connect/ Disconnect:** Connect and disconnect the device (*MiniTurbo* Writer).
- ✚ The *MiniTurbo* Writer will be automatically connected with software if it is connected to PC before open the software.

2. Information:

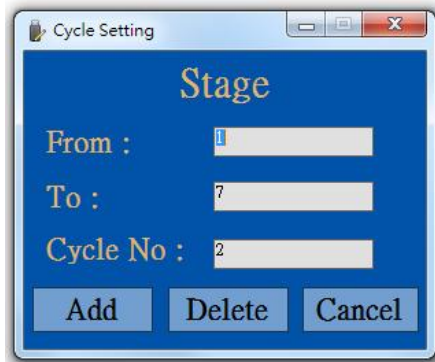
- **Viewer/ Key Switch:** Switch the current protocol and the protocol from key.
- **Number:** Chip number
- **Name:** The protocol Name
- **Volume:** PCR sample volume
- **Lock (Pause) Sensor:** Pause protocol running time when the door is open.

3. Protocol:

- **New:** Create a new protocol.
- **Delete:** Delete this protocol.
- **From Key:** Read the protocol from key.
-

4. Stage:

- **Insert:** Insert a stage from this protocol.
- **Delete:** Delete the stage from this protocol.
- **Cycle:** Add or delete a cycle from assigned stages.



5. File:

- **Save:** Save the edited protocol in database
- **Cancel:** Leave the edited protocol without save.

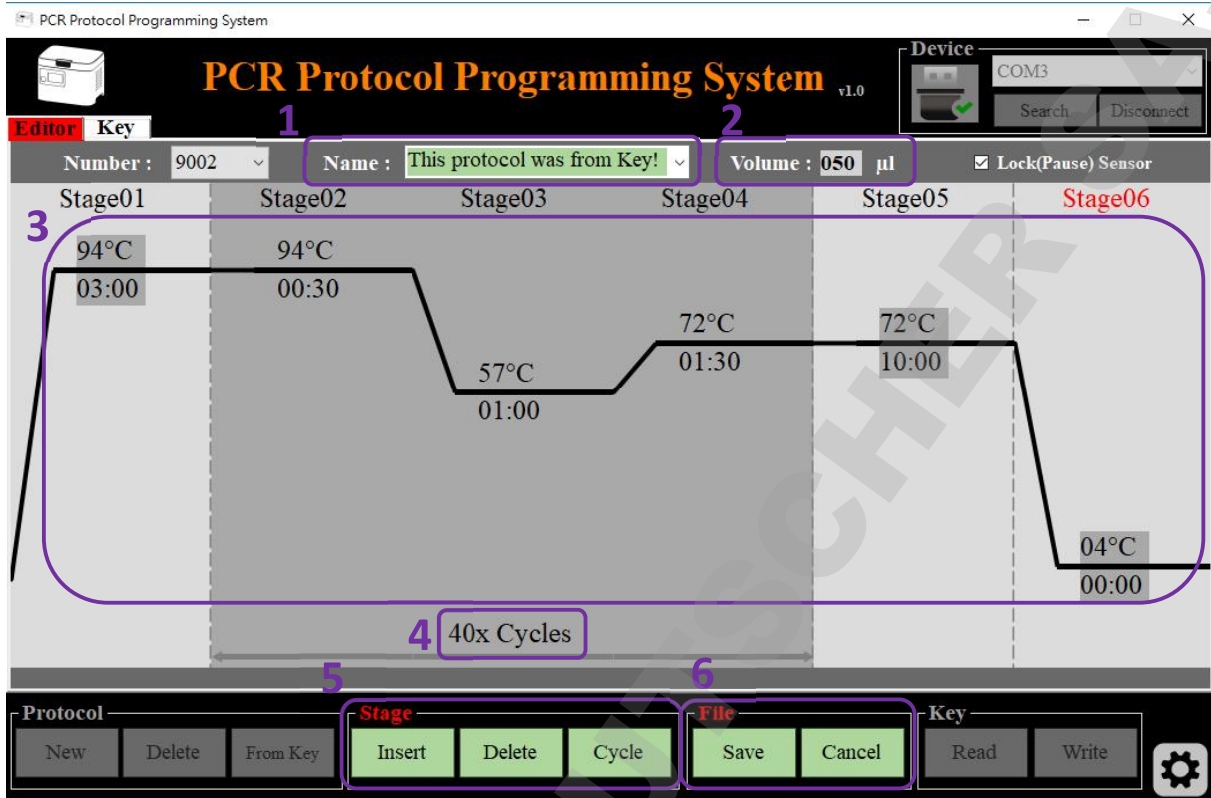
6. Key:

- **Read:** Read the protocol from this key.
- **Write:** Write the protocol information into this key.

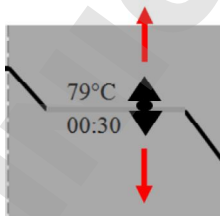
7. Tool:

- Export or import database.

C. PCR protocol Editor



1. Edit the Protocol Name.
2. Input the PCR sample volume from 1 to 100µL.
 - The temperature control algorithm will estimate the sample temperature based on the block temperature and the sample volume.
3. Adjust the temperature and time setting.
 - Input the number to adjust temperature and time setting
 - The temperature increment and decrement also can be adjusted by drag the black line.



4. Change the cycle number
 - Enter the number to change cycle number setting.
5. Insert and delete the stage and cycle number
 - The selected stage can be deleted or insert a new stage in next.
 - A cycle contains more than one stage, and user can add or delete a cycle from assigned stage number or cancel the setting.



6. Save File/ Cancel file: Save or cancel to leave the current protocol setting.

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