Editorial comments:

The manuscript has been modified and the updated manuscript, 57732\_R1.docx, is attached and located in your Editorial Manager account. Please use the updated version to make your revisions.

1. Please take this opportunity to thoroughly proofread the manuscript to ensure that there are no spelling or grammar issues.

2. JoVE cannot publish manuscripts containing commercial language. This includes company names before an instrument or reagent. Please remove all commercial language from your manuscript and use generic terms instead. All commercial products should be sufficiently referenced in the Table of Materials and Reagents. Examples of commercial language in your manuscript include Microfil, etc.

3. Step 1.1: How to generate the change? Please explain in detail.

🡪 The detailed procedure is described in Protocol 1.4. We changed “step 1.1” to “Note.”

4. 1.3: How to shave?

🡪 We have added more detailed information in Protocol 1.3.

5. 1.4.2: How to dissect? Using what? Please specify the accurate location. What’s the size of the incision? How deep is it?

🡪 We have added more detailed information in Protocol 1.4.

6. 2.1: Please write this step in imperative tense.

🡪 We have revised the sentence according to your advice.

7. 2.2: Please write this step in imperative tense.

🡪 We have revised it according to your advice.

8. 3.2: How to expose the common carotid artery? Please explain in detail the surgery procedure.

🡪 We have added detailed information about the procedure with reference.

9. 4.1: Please write this step in imperative tense.

🡪 We have revised the sentences.

10. 6.1: How deep is the incision? What is used to make the incision?

🡪 We have added detailed information about the procedure.

11. 6.2: How to dissect? How to harvest? Please add more details.

🡪 We have added detailed information about the procedure.

12. 7.3: How to develop the film? What is the film?

🡪 The method used for developing the film in this study is similar to that used generally. In the past, films were developed manually; however, automatic developing machines have been introduced and are used.

13. Step 8: For steps that are done using software, a step-wise description of software usage must be included in the step. Please mention what button is clicked on in the software, or which menu items need to be selected to perform the step.

🡪 We have added detailed information about the procedure.

14. Being a video based journal, JoVE authors must be very specific when it comes to the humane treatment of animals. Regarding animal treatment in the protocol, please add the following information to the text:

a) Please specify the anesthesia or euthanasia method.  
🡪 We performed isoflurane inhalation anesthesia and have described this in the protocol (Protocol 1.2 and 3.1).

b) Please mention how animals are anesthetized and how proper anesthetization is confirmed.

🡪 We performed isoflurane inhalation anesthesia and have described this in the protocol (Protocol 1.2 and 3.1).

c) Please specify the use of vet ointment on eyes to prevent dryness while under anesthesia.

🡪 We have mentioned this in Protocol 1.3 and 3.2

d) For survival strategies, discuss post-surgical treatment of animal, including recovery conditions and treatment for post-surgical pain.

🡪 We have mentioned this in Protocol 1.4.8.

e) Discuss maintenance of sterile conditions during survival surgery.

🡪 We have mentioned this information in Protocol 1.3. and 3.2.

f) Please specify that the animal is not left unattended until it has regained sufficient consciousness to maintain sternal recumbency.

🡪 We have mentioned this in Protocol 1.4.9.

g) Please specify that the animal that has undergone surgery is not returned to the company of other animals until fully recovered.

🡪 We have mentioned this in Protocol 1.4.9.

15. After you make all changes, if the protocol steps are over 3 pages, please highlight less than 2.75 pages of protocol steps in yellow for filming. Please do not highlight any steps describing euthanasia or anesthesia.

🡪 We have marked it.

16. Figure 1: Please add a short description of the figure in addition to the figure title.

🡪 We have added a short description in the figure legend.