

Please see our point by point responses below:

Editorial comments:

1. The editor has formatted the manuscript to match the journal style. Please retain the same.

We have amended the protocol, representative results and legends, which previously deviated from the journal style.

We noticed that protocol steps 2 and 3 had been altered to yellow-highlights to suggest recording this part. These steps would require additional mice to be bred and euthanized and are not especially specific to the Confetti mice (as anyone trained to use laboratory animals will have been through these steps), so we have returned the yellow highlights to the previously peer-reviewed version. In general, the click-by-click software section for setting up the microscope would be more useful for new users of the Confetti mouse (protocol step 7) as it describes how to separate the channels and avoid overlapping signals, something that can be very troublesome. The instructions for every click takes up a lot of text space in order to navigate the user within the software, so adding it would far exceed the 2.75 page yellow-highlighted total; but to video such set-up would not take a prolonged period. When we originally planned this manuscript we thought it would be important to include this part but omitted it due to text length. However, it would be reasonable to think that in the final video it would take up a similar length of time to steps 2 and 3, but would be much faster to record than steps 2 and 3 (since step 7 is performed at one microscope). So if you think the video needs to be lengthened from the parts we originally suggested, please consider adding step 7 as an alternative to steps 2 and 3.

2. Please address all the specific comments marked in the manuscript.

We have addressed all comments and tracked changes in the manuscript.

3. Once done please proofread the manuscript well before submitting.

Thanks, we have proof-read the manuscript, making several small changes.