September 18, 2018

Editor, JoVE

Dear Editor,

Enclosed please find the revised version of our manuscript entitled "**A BW reporter system for studying receptor-ligand interactions**" by Elias et al. We corrected the manuscript to comply with your comments (see our detailed response below). The main changes are marked in red in the manuscript file. We thank you for your time and effort and are looking forward to your response.

Yours sincerely,

Shlomo Elias & Ofer Mandelboim

**Editorial comments:**

The manuscript has been modified and the updated manuscript, **58685\_R2.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.*

**Response:** Done.

*2. Please do not highlight notes for filming.*

**Response:** Corrected

*3. Please use standard SI unit symbols and prefixes such as µL, mL, L, g, m, etc.*

**Response:** Done.

*4. Please use h, min, s for time units.*  
**Response:** Done (but please note that according to the journal instructions, hour should be abbreviated to "hr" not "h". Please let us know what is correct).

*5. JoVE cannot publish manuscripts containing commercial language. This includes company names of 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 BioRad Gene Pulser II, etc.*

**Response:** We deleted all company names.

*6. Please revise the text in Protocol to avoid the use of any personal pronouns (e.g., "we", "you", "our" etc.).*

**Response:** Corrected.

*7. Please specify all primers for all PCR reactions.*

**Response:** As stated in the manuscript, we cannot include the primer sequences for the PCR reactions since their design depends on the specific receptor which is cloned.

*8. Please split some long steps into two or more steps so that each step contains only 2-3 actions and is less than 4 lines.*

**Response:** Done.

*9. Step 1.2: How to obtain? Please be specific.*

**Response:** The DNA material could be cDNA or a plasmid that expresses this sequence (we added these possibilities to the revised manuscript).

*10. 1.4.1: Please add more details to your protocol steps. Please ensure you answer the “how” question, i.e., how is the step performed? Alternatively, add references to published material specifying how to perform the protocol action.*

**Response:** PCR is considered a common technique in biology. In the revised version we include a schematic figure that shows how to design the primers (Figure 2). We also added a reference to a JoVE protocol for performing PCR.

*11. 1.7: How to transform? What bacteria? Which antibiotics is used? What’s the concentration? What’s the condition for growing the bacterial? Please add more details*.

**Response:** In response to the editor's comment, we have added more details to this step (please note that this is a common technique in biology). We also added a reference to the relevant JoVE protocol.

*12. 2.5: Please specify the centrifugation time and rate.*

**Response:** Added.

*13. Step 3: Please specify the antibody. Please ensure that all text is written in imperative tense.*

**Response:** The antibody which is mentioned is a specific antibody against the receptor which was transfected to the BW cells (we cannot specify any one antibody since it depends on the receptor type).

*14. 4.1: Please write this step in imperative tense.*

**Response:**  Corrected.

*15.* [*4.2.1.2*](http://4.2.1.2)*: What’s the condition for incubation.*

**Response:** The condition for the incubation is mentioned – "on ice".

*16. 4.3: Please write this step in imperative tense*.

**Respone:** Corrected.

*17. Step 5: Please do not highlight a step without highlighting any of the sub-steps.*

**Response:** Corrected (in the revised version it is now step 6).

*18. After you make all changes, please ensure that the highlighted protocol steps are less than 2.75 pages.*

**Response:** Done.