Reviewer's report

**Title:** Stomatin-like protein 2 was overexpressed in epithelial ovarian cancer and predicted patient poor survival

**Version:** 4  **Date:** 30 January 2015

**Reviewer:** Balazs Györffy

**Reviewer's report:**

Sun et al have showed that both mRNA and protein of SLP-2 are overexpressed in epithelial ovarian cancer. Overexpression was associated with advanced stage disease and patients having elevated expression of SLP-2 protein had shorter survival.

Discretionary Revisions (which are recommendations for improvement but which the author can choose to ignore)

- Please read the MS, there are a few typos to correct.
- The title should be present time.

Minor Essential Revisions

- What is the specificity of the primers? I was unable to exactly identify SLP-2 as the targets of the PCR.
- Add ethical approval number.
- Figure 5 looks blurred. Add scale to all IHC figures.
- There is no need for three IHC figures, these should be combined into one figure.
- Figure 6 has to be replaced by a high quality plot.

Major Compulsory Revisions:

- There is no chemotherapy treatment data included in the manuscript. Were the patients uniformly treated?
- It is now possible to perform an independent validation using gene chip data in serous ovarian cancer samples. Use an online database mining tool like www.kmplot.com/ovar. This is especially interesting, as it confirms the correlation to survival described in the manuscript (HR=1.33, p=0.00038).
- SLP-2 regulates the biogenesis and the activity of mitochondria. It should be discussed whether it could contribute to the altered energy metabolism typical for cancer cells?

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable
Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests: I declare that I have no competing interests.