

## Supplementary Figures

### Ubiquitin-specific protease 3 deubiquitinates and stabilizes Oct4 protein in human embryonic stem cells

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*Running title: USP3 regulates Oct4 protein turnover in stem cells*

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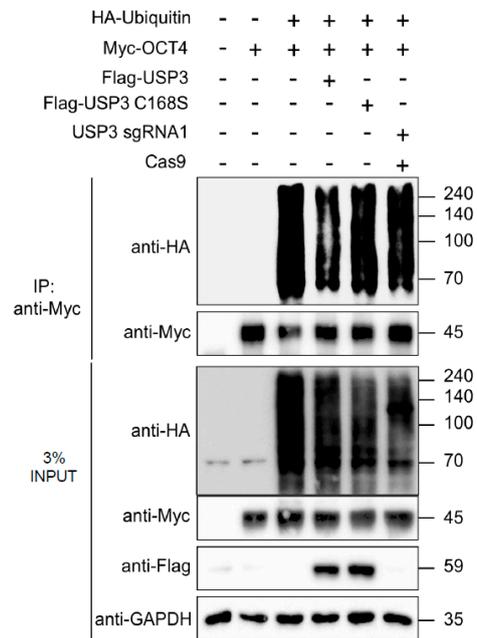
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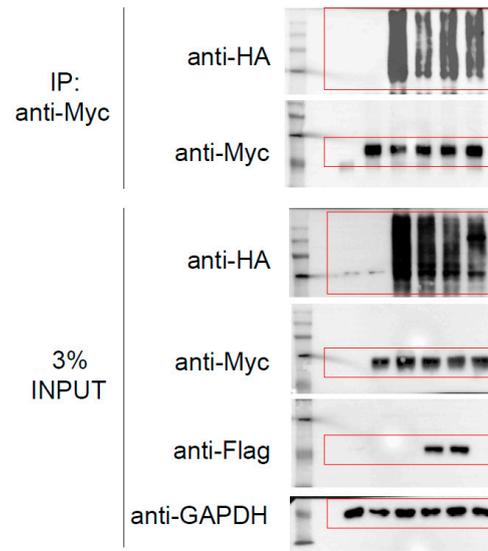
**Supplementary Figure S1.** Deubiquitination of Myc-Oct4 by USP3.



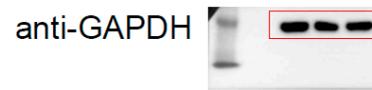
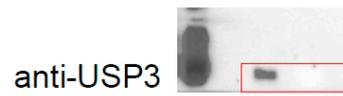
**Supplementary Figure S1:** Deubiquitinating effect of USP3 on exogenous Oct4 was analyzed by transfecting Myc-Oct4 and HA-Ubiquitin along with Flag-USP3, Flag-USP3CS, or sgRNA targeting USP3 into HEK293 cells. Oct4 deubiquitination was confirmed by IP with anti-Myc antibody and immunoblotted with anti-HA antibody.

**Supplementary Fig. S2:** The original uncropped images for immunoblots in the main figures.

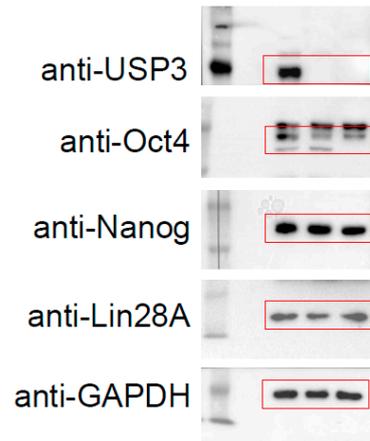
**Supplementary Figure S1**



**Figure 1E**



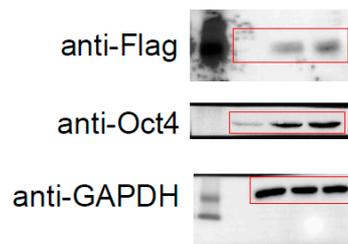
**Figure 2A**



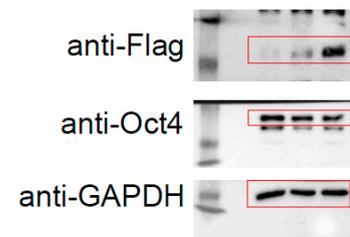
**Figure 2B**



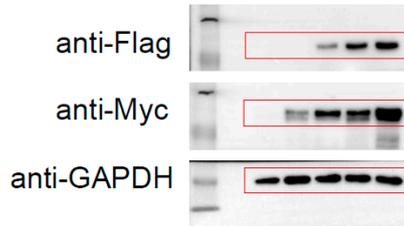
**Figure 2C**



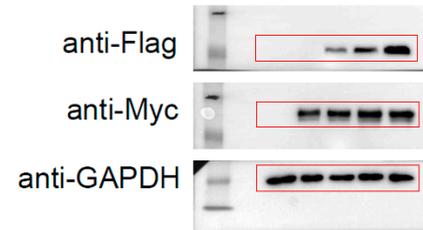
**Figure 2D**



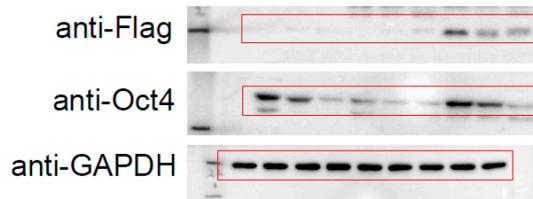
**Figure 2E**



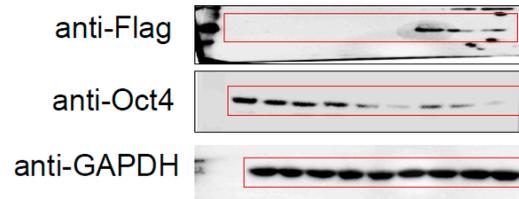
**Figure 2F**



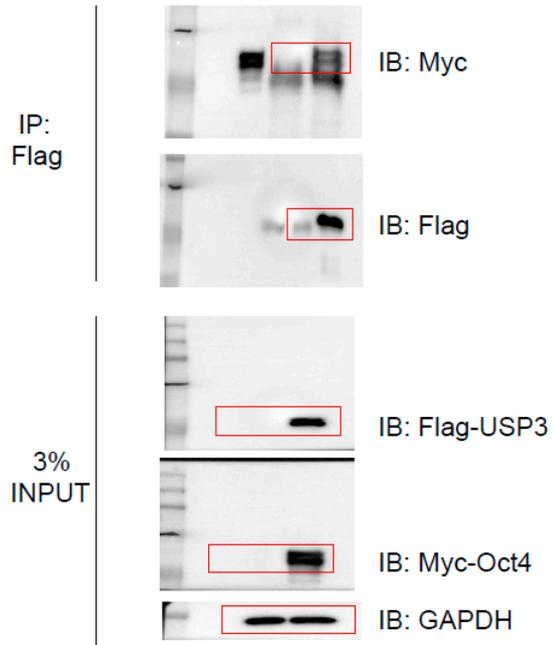
**Figure 2G**



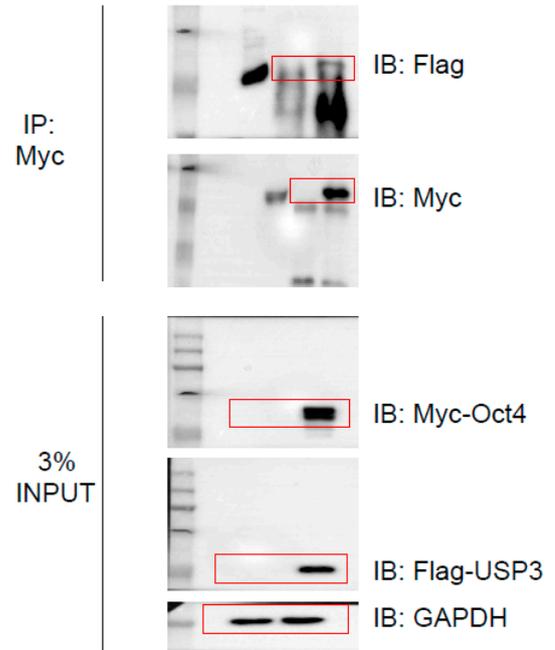
**Figure 2H**



**Figure 3A**



**Figure 3B**



**Figure 3C**



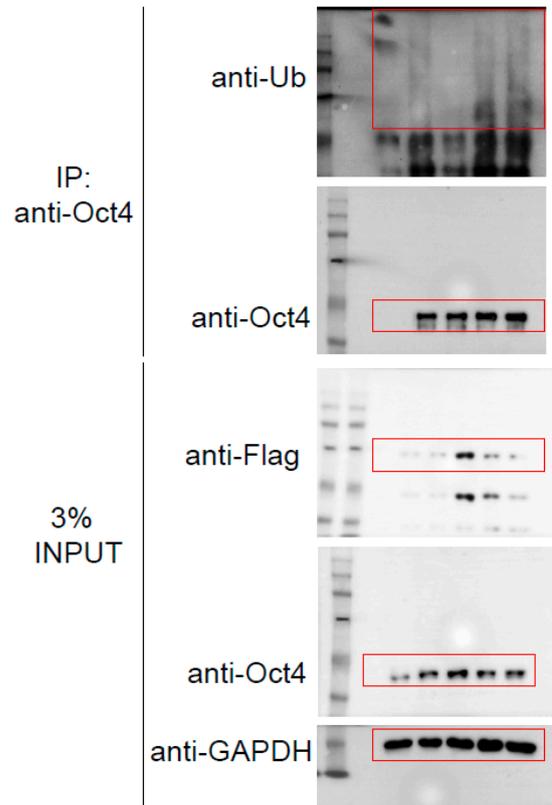
**Figure 3D**



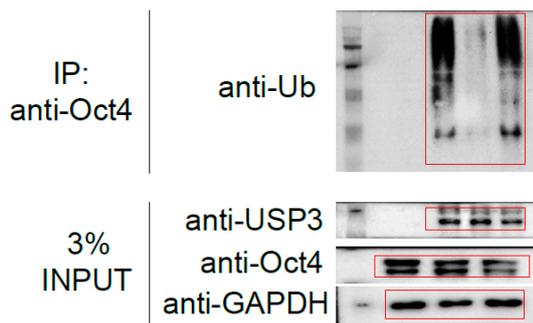
**Figure 4B**



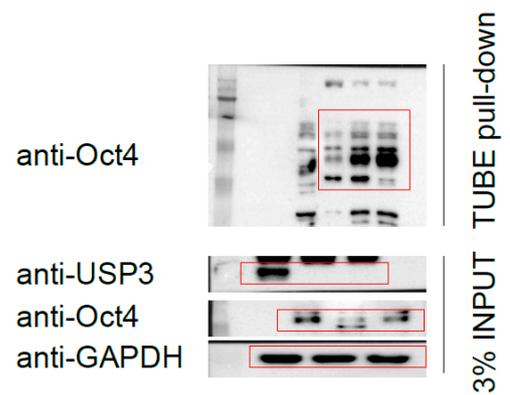
**Figure 4C**



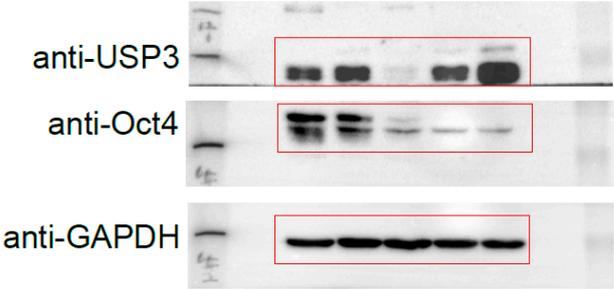
**Figure 4D**



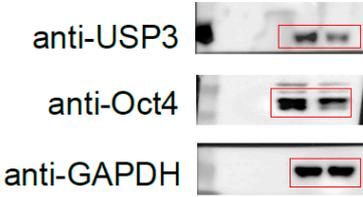
**Figure 4E**



**Figure 5B**

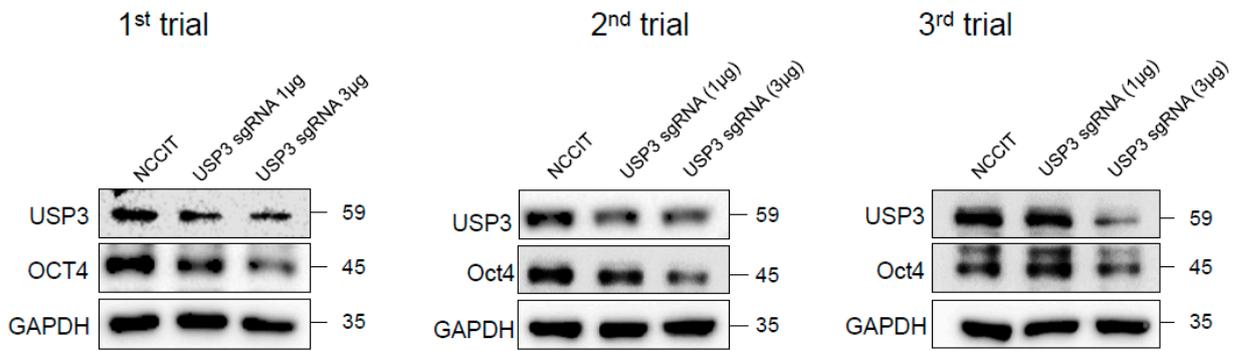


**Figure 5C**

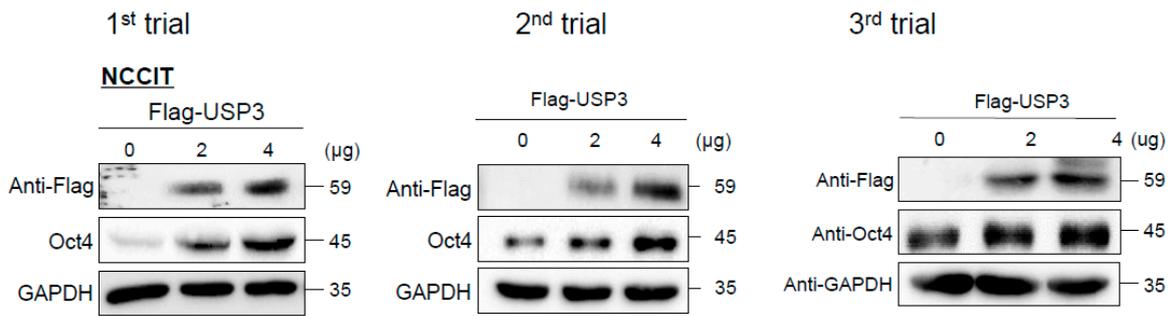


**Figure S3.** Triplicate images of western blots for significance values.

**Figure 2B**



**Figure 2C**



**Figure 2D**



**Figure 5C**

