

## Supporting Information

### Dimethyl Sulfoxide-Free Cryopreservation of Human Umbilical Cord

### Mesenchymal Stem Cells Based on Zwitterionic Betaine and Electroporation

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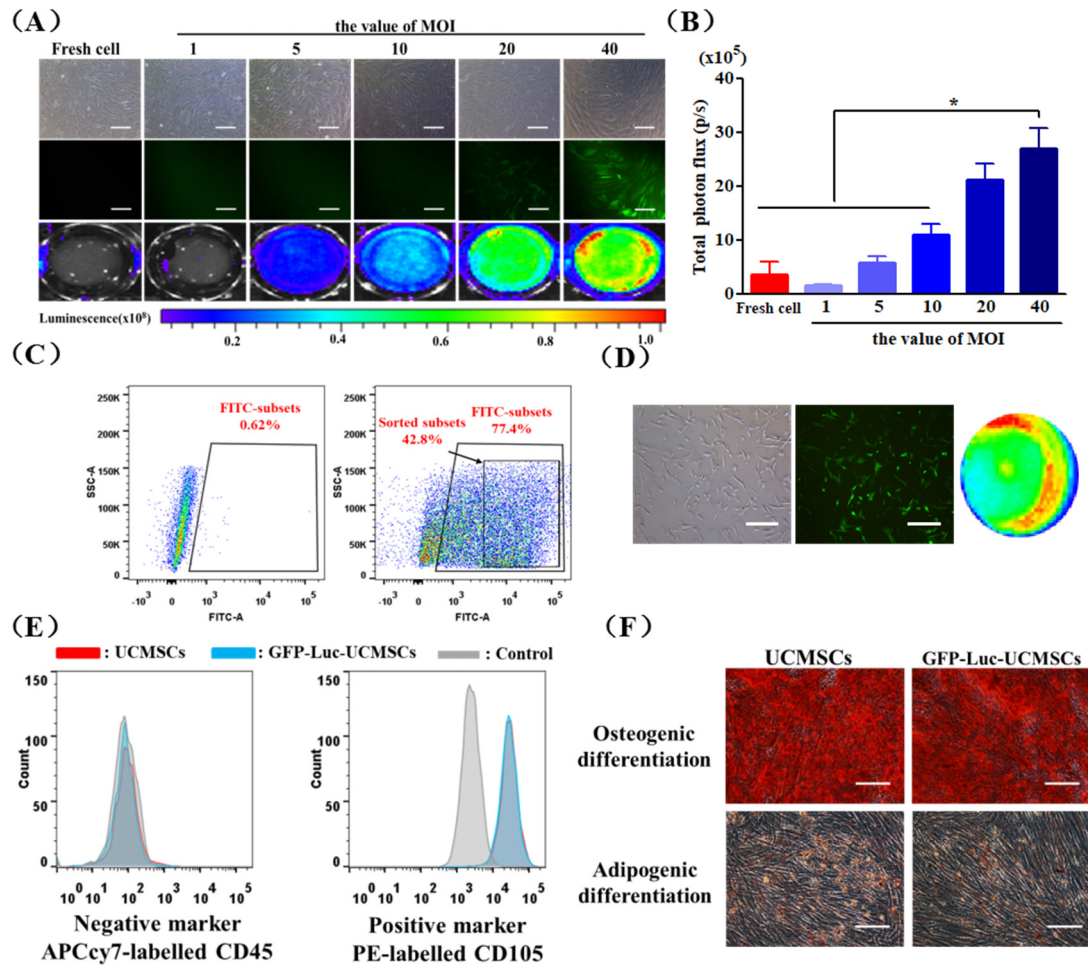


Figure S1. Construction of GFP-Fluc-UCMSCs. (A) Fluorescent images and bioluminescence images of UCMSCs transfected at different MOI value. (B) Bioluminescence intensity of UCMSCs transfected at different MOI value. (C) Flow cytometry dot plots of GFP-Fluc-UCMSCs sorting. (D) Microscopic images, fluorescent images and bioluminescence images of GFP-Fluc-UCMSCs. (E) CD45/105 expression of UCMSCs and GFP-Fluc-UCMSCs. (F) Osteogenic and adipogenic differentiation of UCMSCs and GFP-Fluc-UCMSCs. Scale bar= 200  $\mu$ m.

Value = mean  $\pm$  standard deviation,  $n \geq 3$ . \* $P < 0.05$ .