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Publisher Correction: Simultaneous loading of PCR-based multiple fragments on mouse artificial chromosome vectors in DT40 cell for gene delivery

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Correction to: Scientific Reports https://doi.org/10.1038/s41598-022-25959-9, published online 16 December 2022

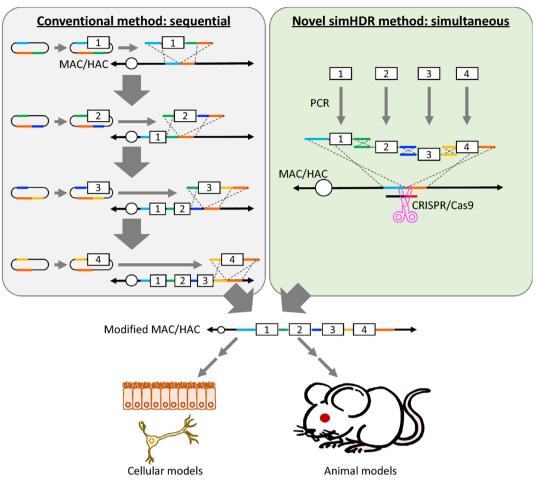
The original version of this Article contained errors in Figures 1 and 4, as well as in the Supplementary Information.

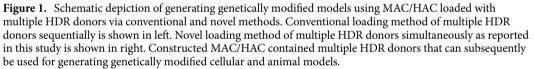
In the left panel of Figure 1, the colour of the line to the left of the white box with the number "3" shown in the diagram of the conventional method was incorrect. In addition, the text "Vector construction" has been added to each step in the diagram of the conventional method. The original Figure 1 and accompanying legend appear below.

In Figure 4c, the text on the left side of the image "DT40-10MAC2-HLA-A" was incorrectly given as "CHO-10MAC2-HLA-A". The original Figure 4 and accompanying legend appear below.

In Supplementary Figure S4, the 289th (279th in the original file) base "T" indicated by the black arrowhead in the "HR1 plasmid_nLA" sequence was incorrectly given as "C".

The original Article and accompanying Supplementary Information file have been corrected.





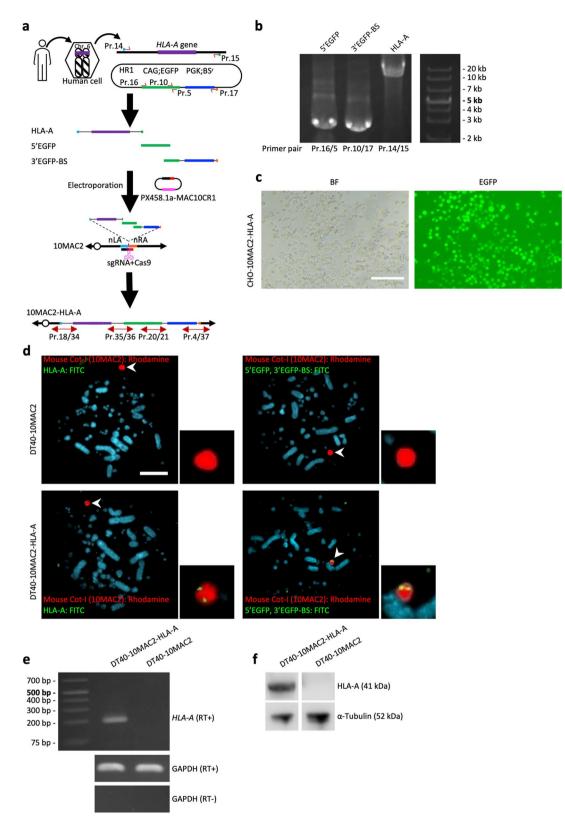


Figure 4. The simHDR based direct cloning of *HLA-A* genomic region. (a) Schematic representation of the simHDR illustrating the loading of genomic DNA sequence from human cells onto the 10MAC2. Arrows indicate the position of PCR primers used for analysis. (b) Preparation of PCR HDR donor fragments. Confirmation of precise amplification by electrophoresis. For gel source data, refer to Supplementary Fig. S15. (c) Image of DT40 cells carrying the 10NAC2-HLA-A. EGFP expression indicates the presence of the 10NAC2-HLA-A. BF, bright field. Scale bar: 100 µm. (d) Representative image of metaphase FISH analysis with mouse Cot-I (red) detecting 10MAC2 and HLA-A or 5'EGFP and 3'EGFP-BS PCR HDR donor fragments (green). Arrowhead indicates the 10MAC2 and the inset shows an enlarged image thereof. Scale bar: 10 µm. (e) RT-PCR products generated from DT40-10MAC2-HLA-A and DT40-10MAC2 cells cDNAs. Each end point PCR products are shown. For gel source data, refer to Supplementary Fig. S16. (f) Detecting HLA-A protein by western blotting. For membrane source data, refer to Supplementary Fig. S17.

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