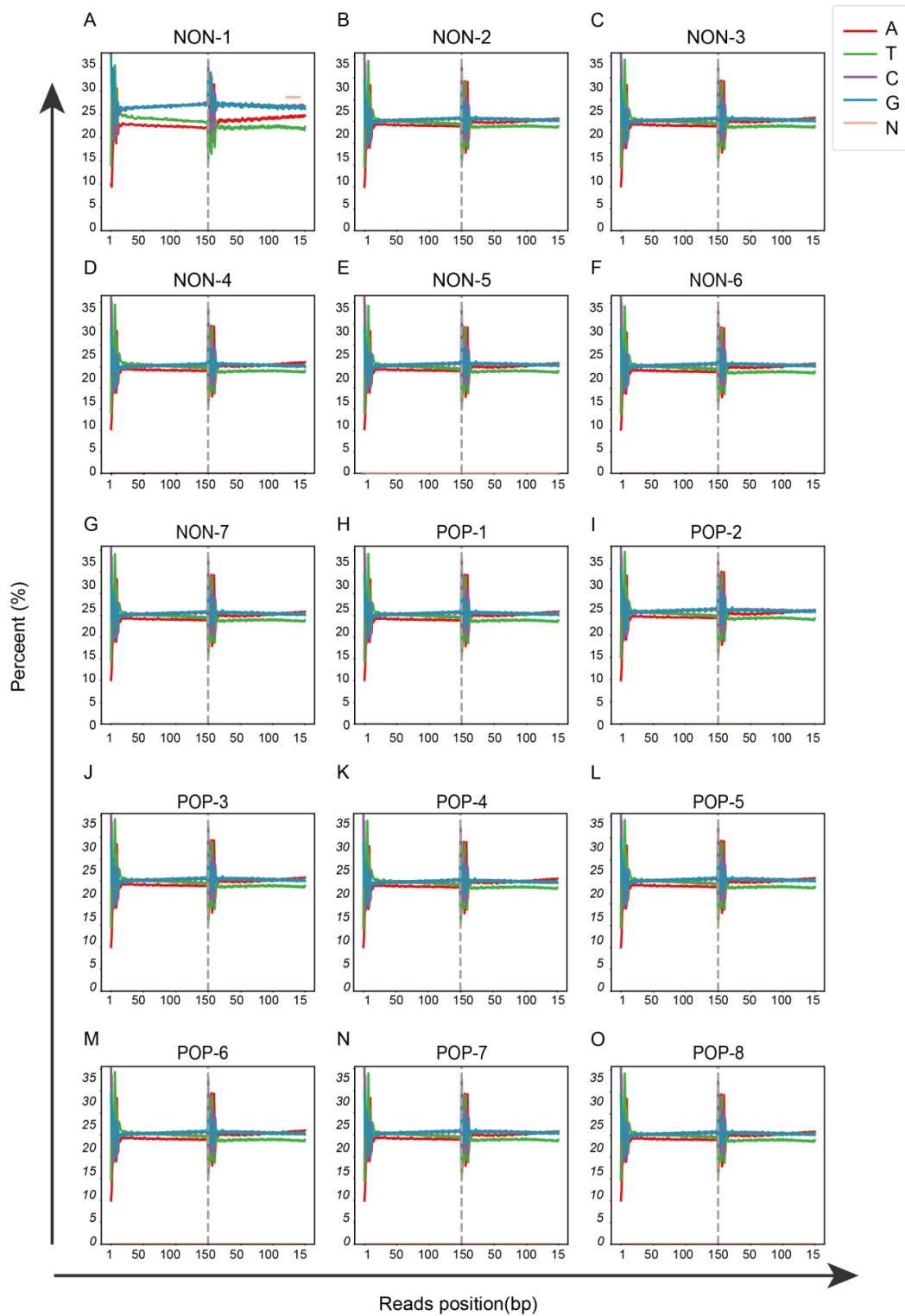
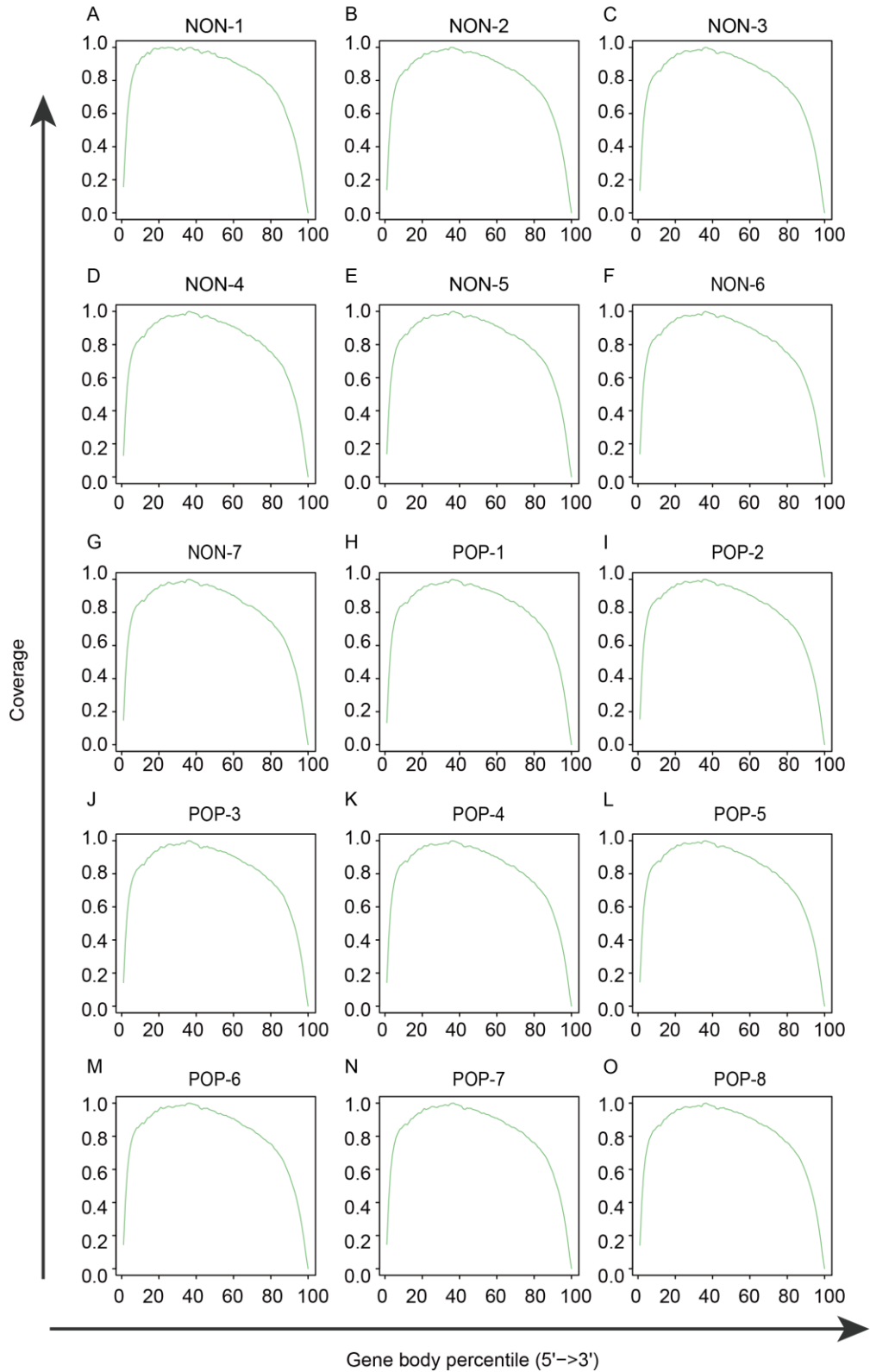


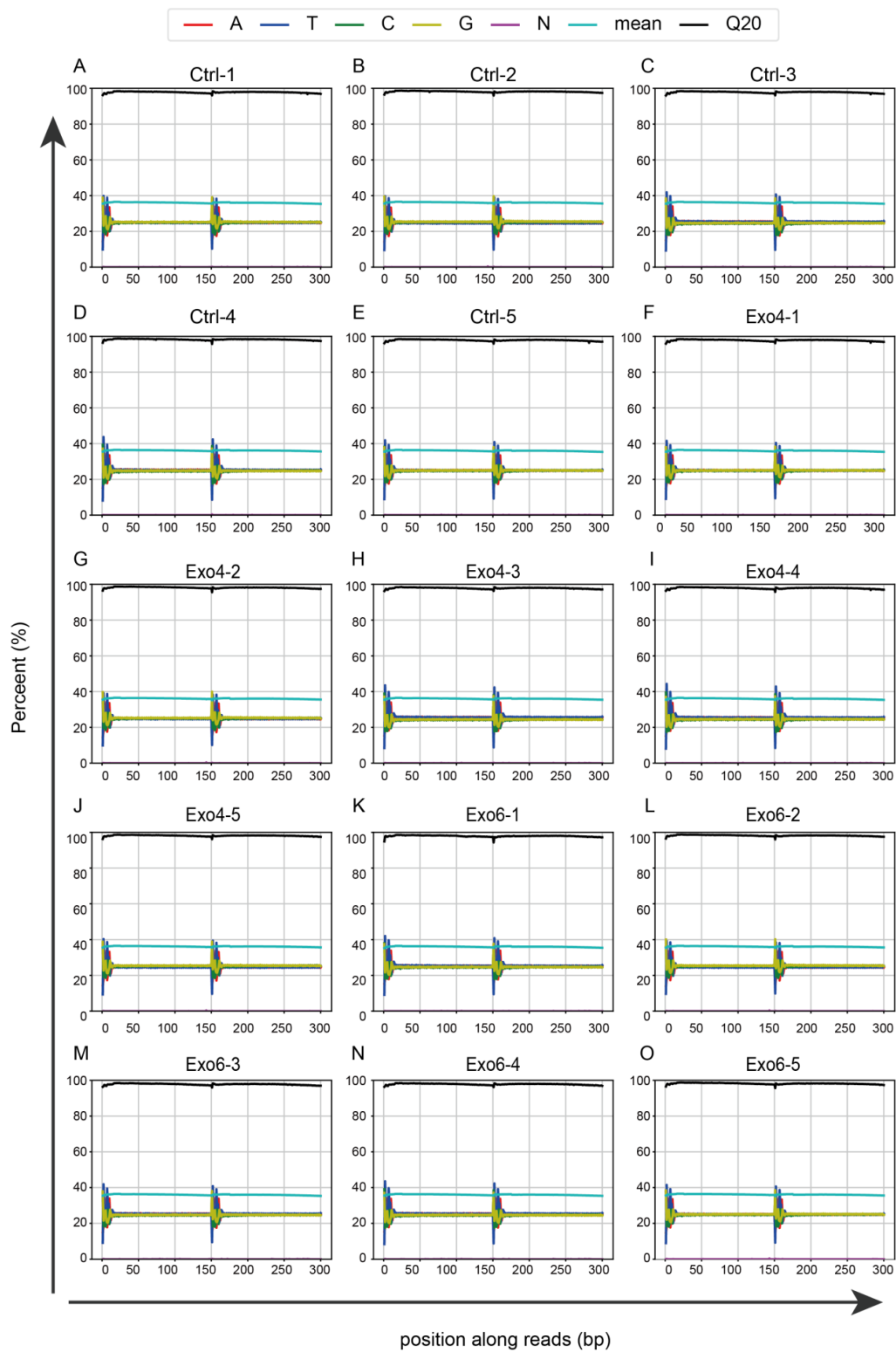
Supplementary Figure 1 A: The fluorescence images of samples processed without primary antibody. B: The expression of  $\alpha$ -SMA and FSP-1 in primary fibroblasts. C: The outline of procedures about the exosomes isolated from hucMAC-Exo. D: The percentage of lives cells accounted for primary cells from vaginal wall. E: The qualification of the proportion of live cells to assess the viability of vaginal wall. F: Observation of fluorescent signaling without the hucMSC-Exo via laser scanning confocal microscope. DAPI is blue, PKH26 is red, and Factin is green. Scale bar: 25  $\mu$ m.



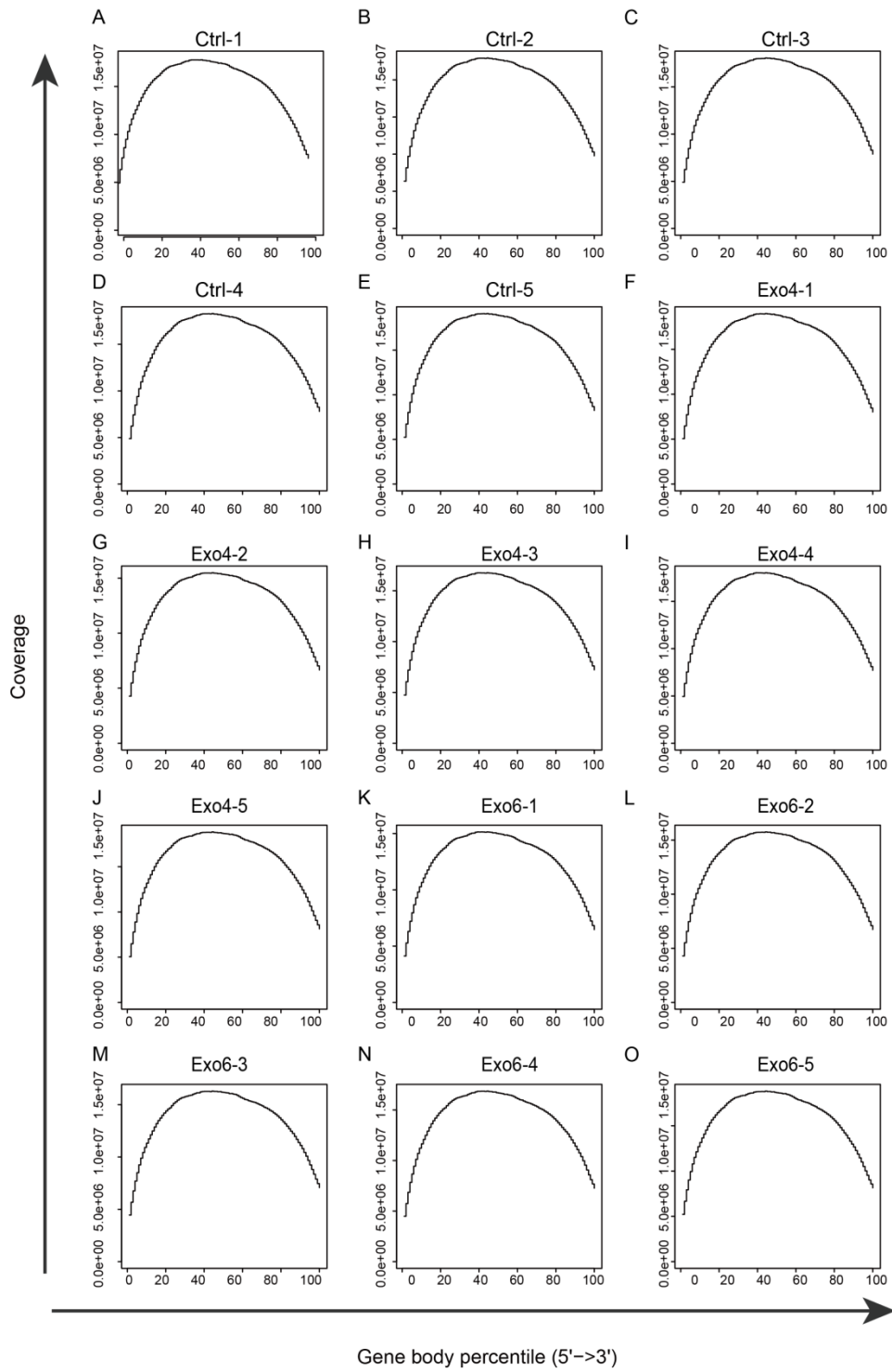
Supplementary Figure 2 A-O: The distribution of base in filtered data of RNA-seq data about primary fibroblasts from POP and NON-POP.



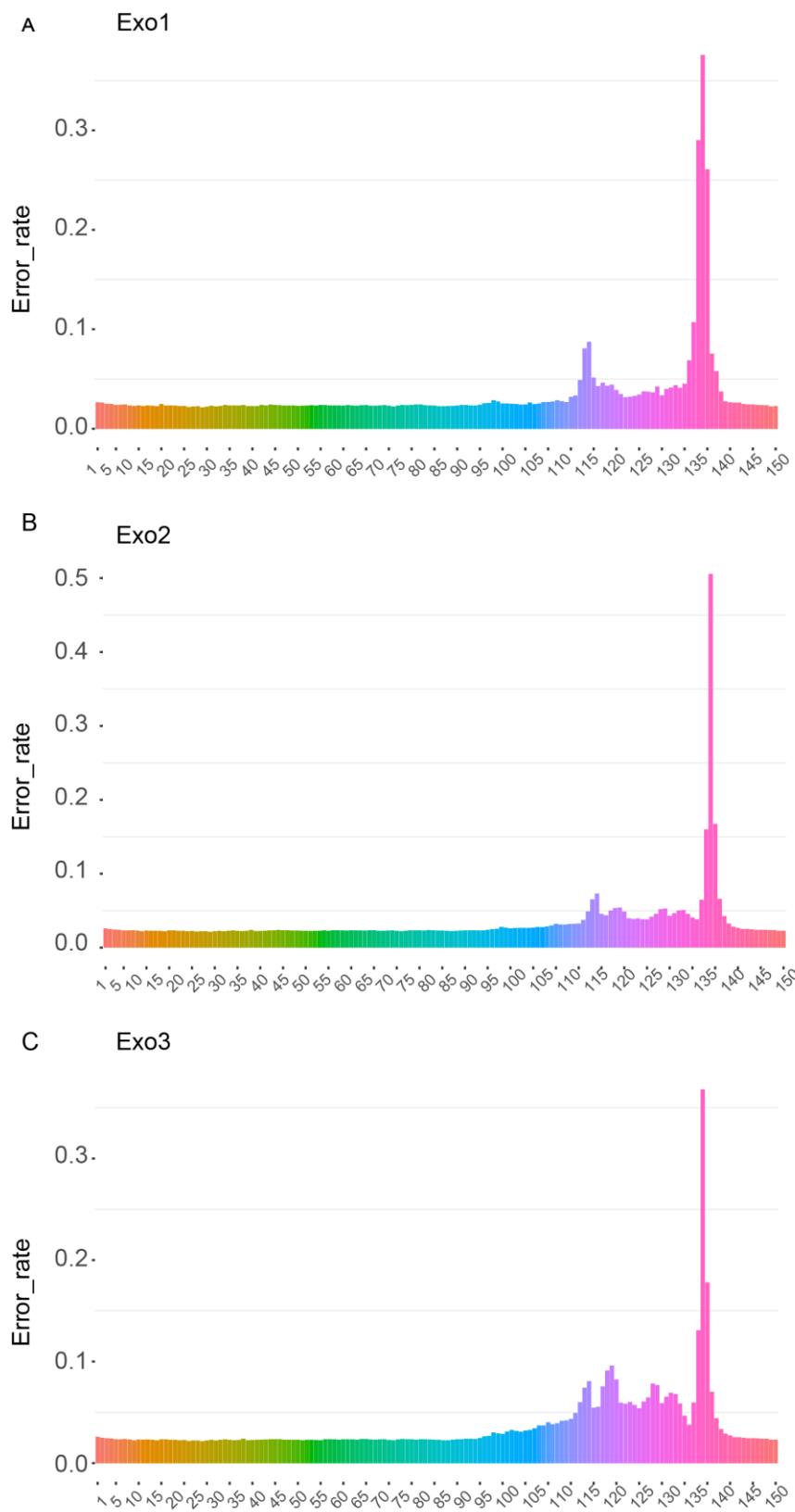
Supplementary Figure 3 A-O: The randomness analysis for filtered data about primary fibroblasts from POP and NON-POP.



Supplementary Figure 4 A-O: The distribution of base in filtered data of RNA-seq data about primary fibroblasts treated with hucMSC-Exo.



Supplementary Figure 5 A-O: The randomness analysis for filtered data about primary fibroblasts treated with hucMSC-Exo.



Supplementary Figure 6 A-C: The Base Calling error rate per cycle for Exo1, Exo2 and

Ехo3.