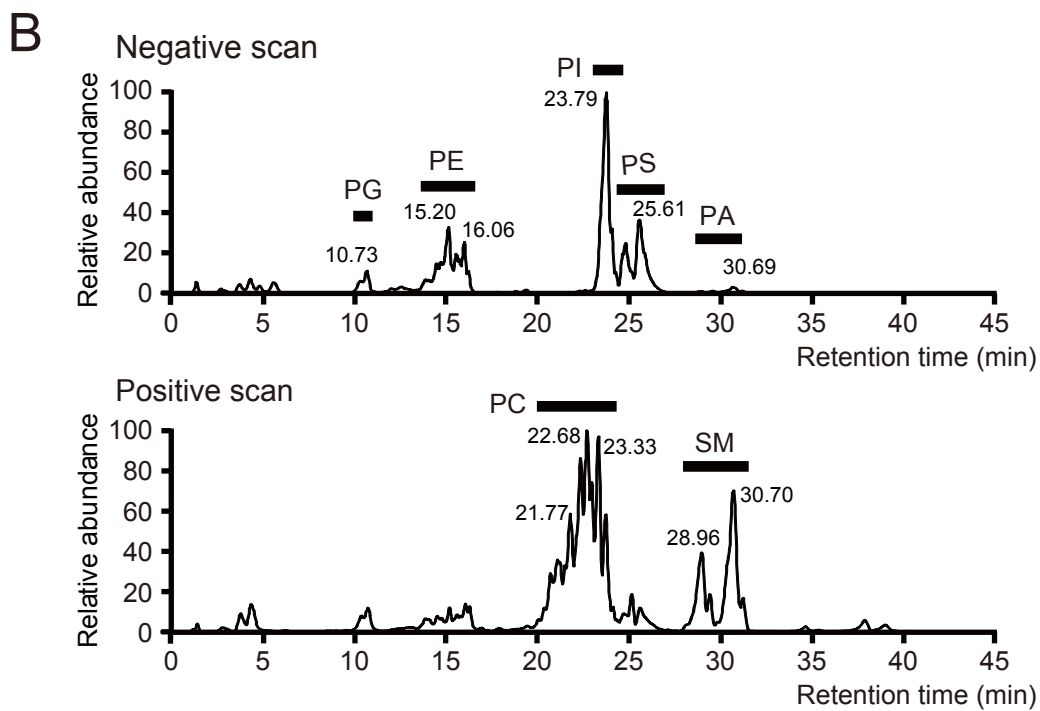
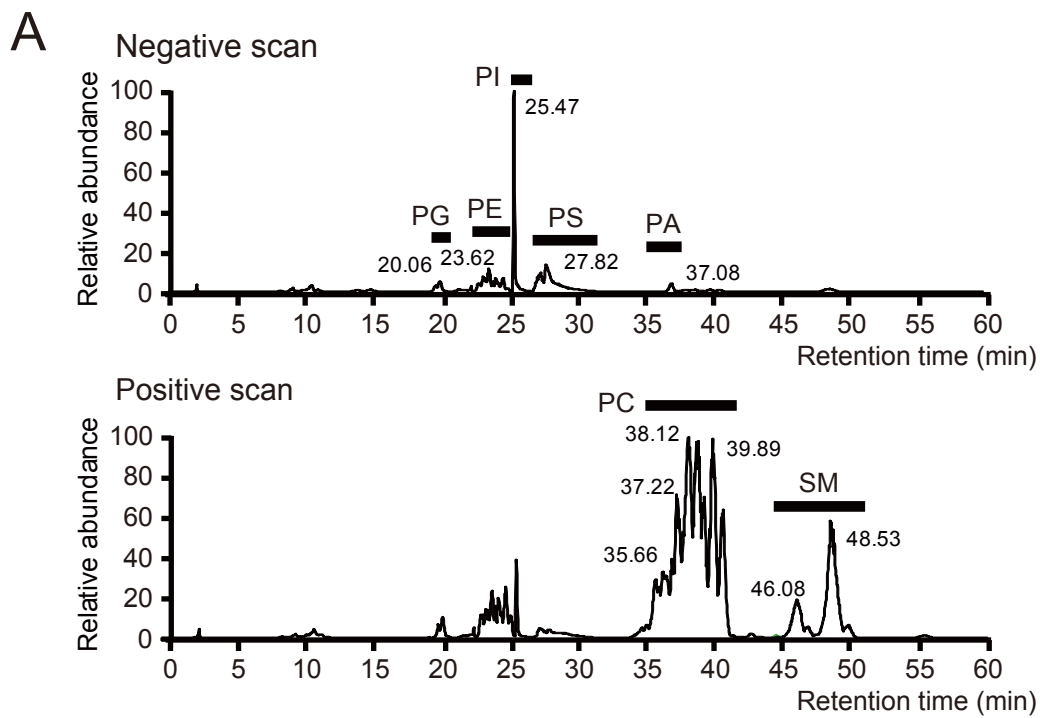


Supplementary Materials

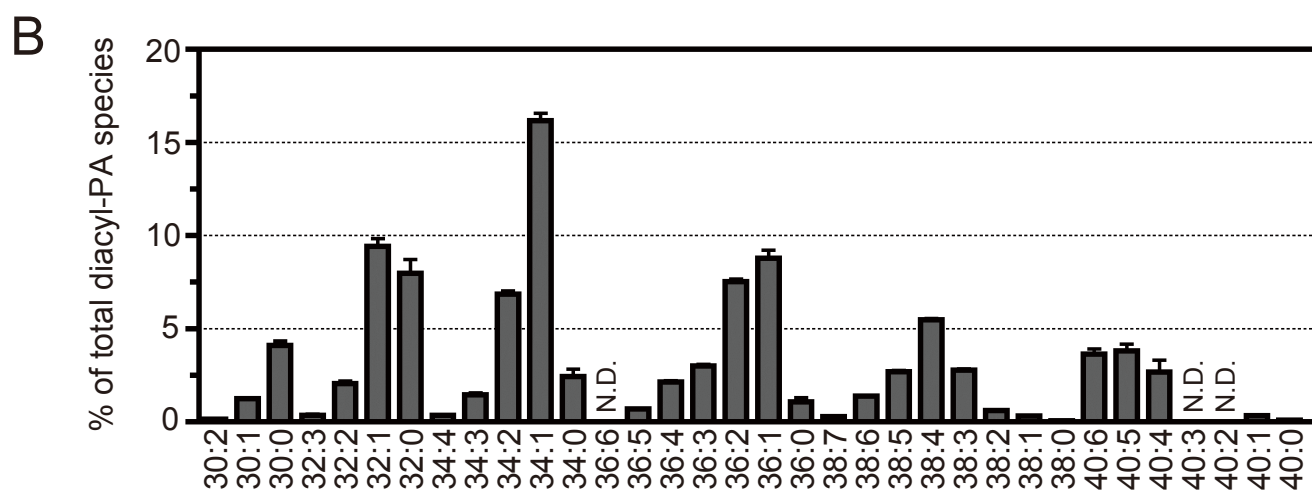
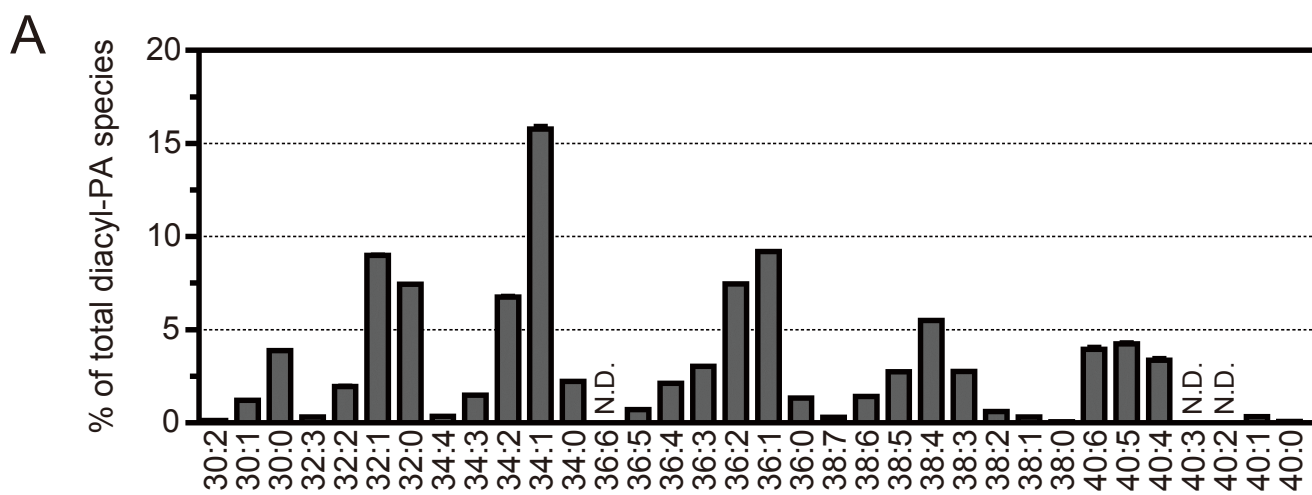
Suppl. Fig. 1. Separation of PA by LC/ESI-MS under previously reported conditions. (A and B) PAs in MEFs separated by the Accela LC System using mobile phases described in T.R. Pettitt *et. al.* [23] (A) and G. Shui *et. al.* [24] (B). Gradient elution programs were optimized for UK-Silica column. Abbreviations: I.S., internal standard, PA, phosphatidic acid; PC, phosphatidylcholine; PE, phosphatidylethanolamine; PG, phosphatidylglycerol; PI, phosphatidylinositol; PS, phosphatidylserine; SM, sphingomyelin.

Suppl. Fig. 2. The reproducibility of quantitative detection of cellular PA species in MEFs. (A and B) The repeated experiments between periods on a given study day (A, within-day reproducibility) and between the three study days (B, between-day reproducibility). The values are presented as the means \pm S.D. ($n = 3$).

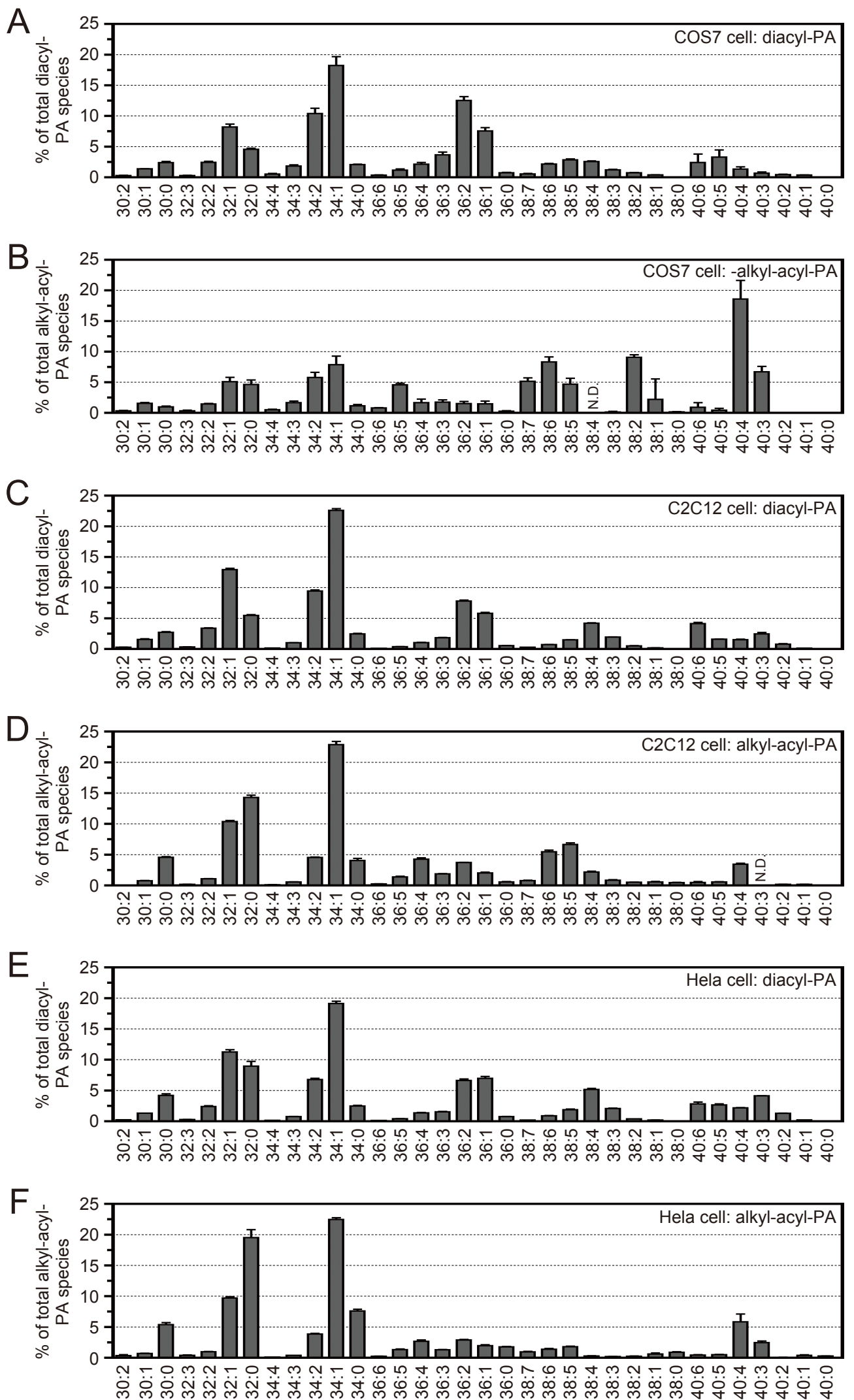
Suppl. Fig. 3. Profiles of PA species in mammalian cells (COS7, C2C12 and HeLa). (A, C, E) Molecular composition of diacyl-PAs in COS7 cells (A), C2C12 cells (C) and HeLa cells (E). (B, D, F) Molecular composition of alkyl-acyl-PAs in COS7 cells (B), C2C12 cells (D) and HeLa cells (F). The values are presented as the means \pm S.D. ($n = 3$). N.D., not detected.



Suppl. Fig. 1



Suppl. Fig. 2



Suppl. Fig. 3