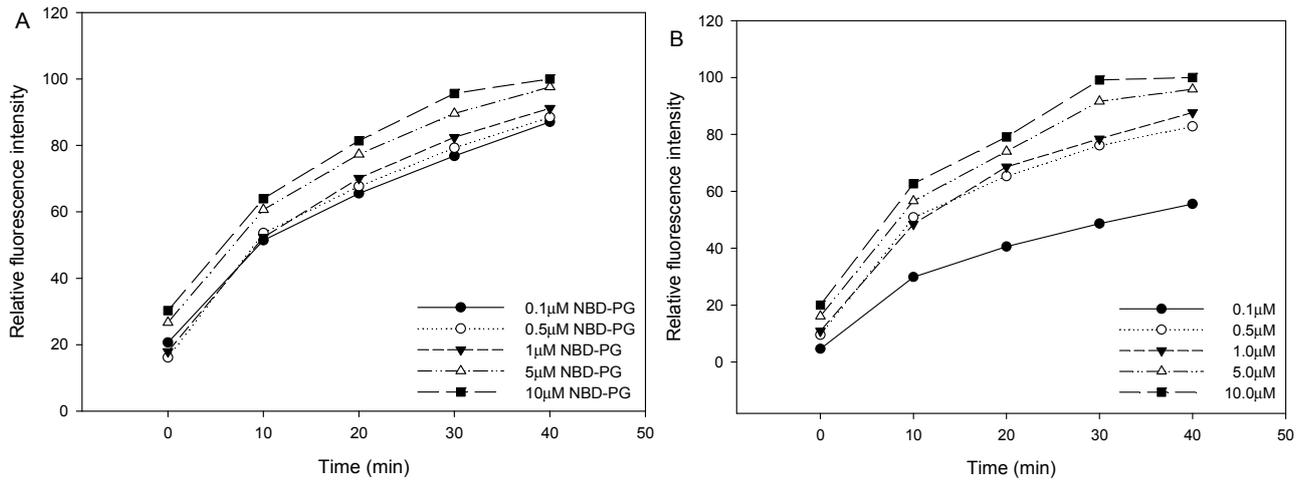
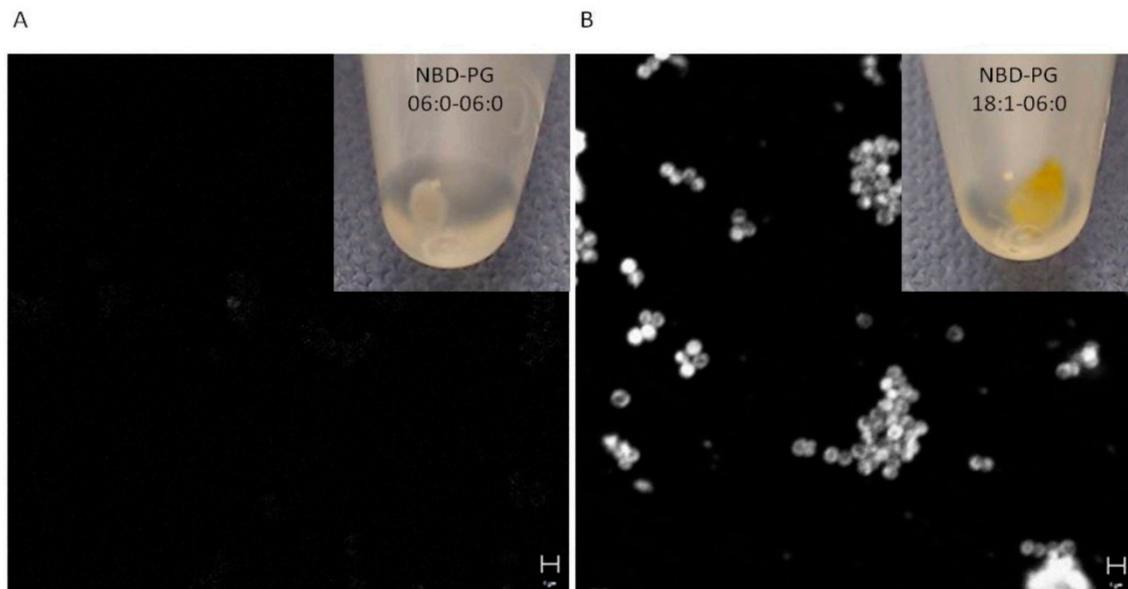


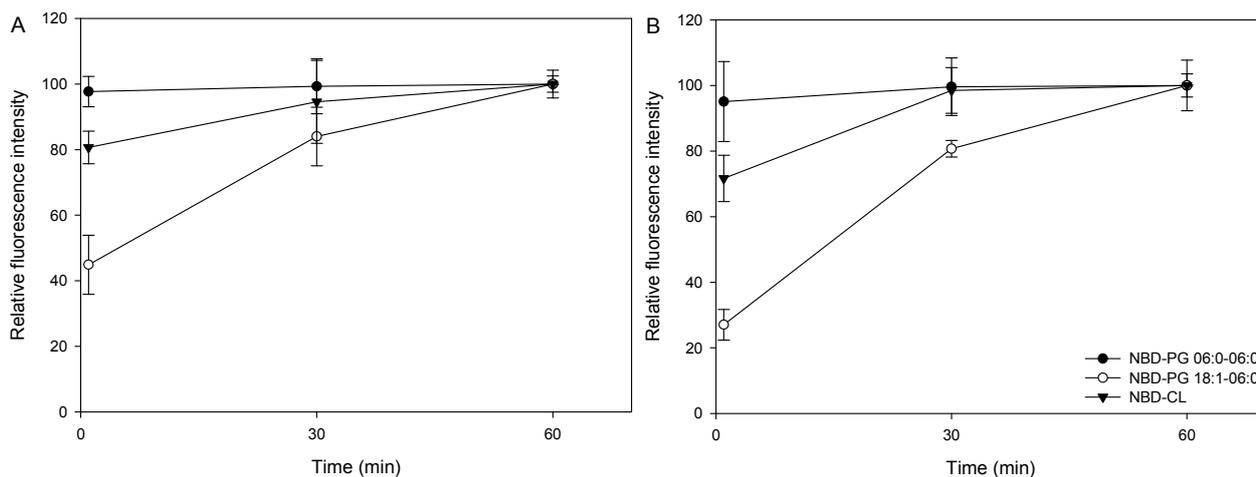
## Supplementary Information



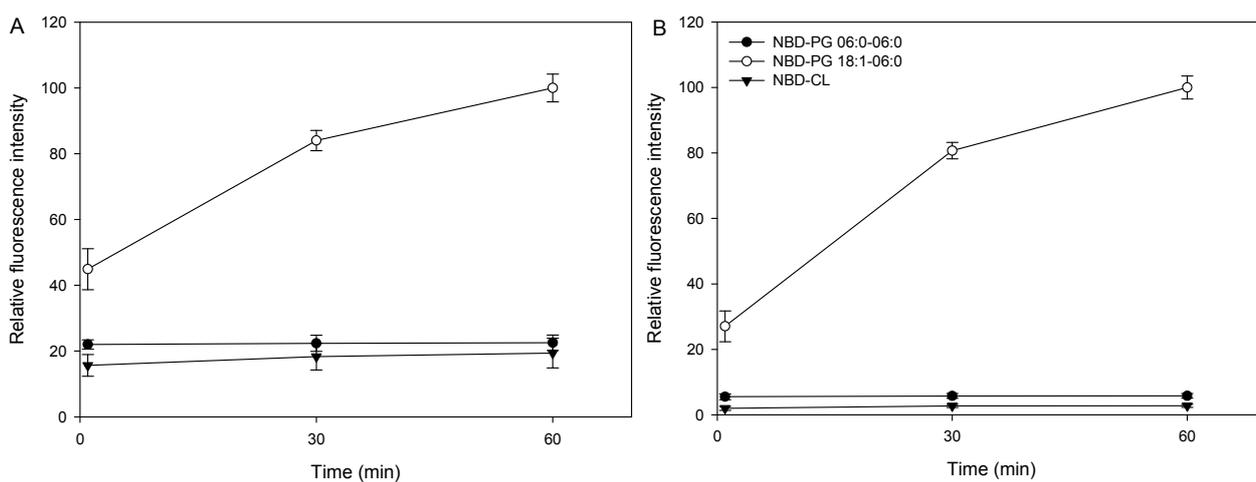
**Figure S1.** Intercalation of 18:1–06:0 NBD-PG into EMRSA-16 cell membrane at cell densities of  $10^6$  CFU/mL (A) and  $10^7$  CFU/mL (B).



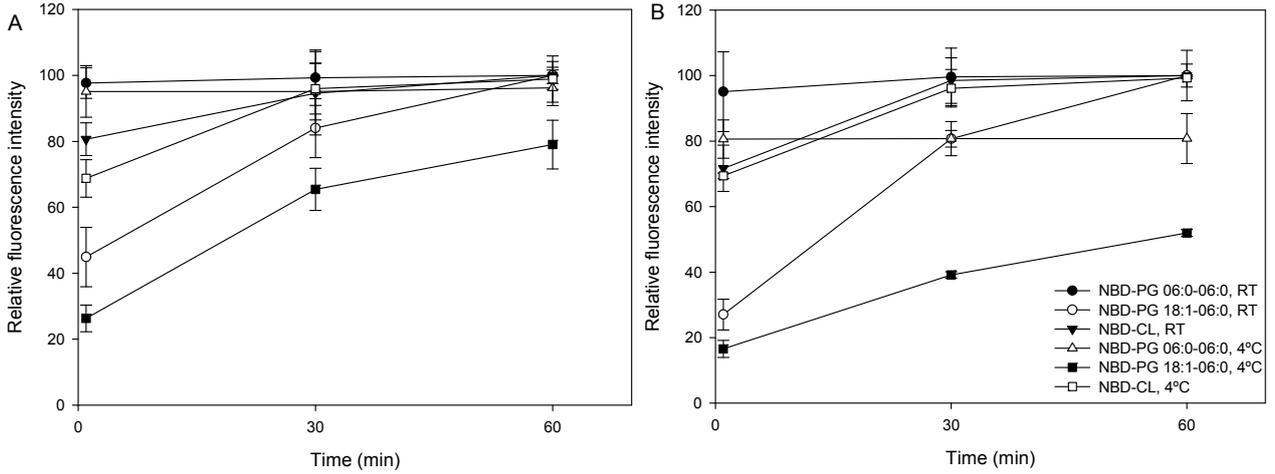
**Figure S2.** Confocal laser scanning microscopy of EMRSA-16 labelled with 10  $\mu$ M 06:0–06:0 NBD-PG (A) and 18:1–06:0 NBD-PG (B). Scale bars 1  $\mu$ m. Insets show labelled cell pellets.



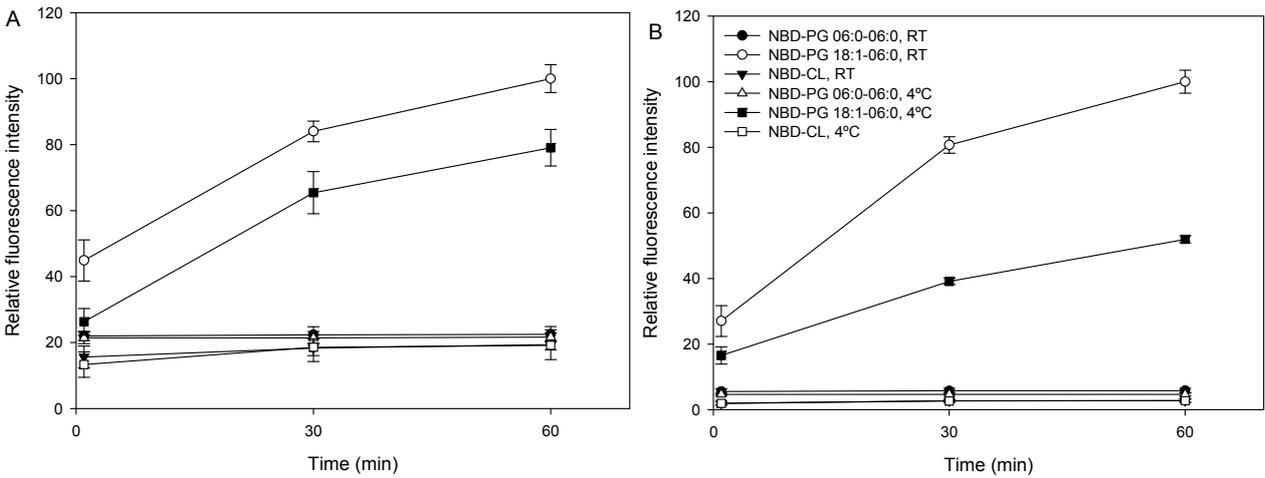
**Figure S3.** Intercalation of NBD-lipids into the EMRSA-16 membrane in the absence (**A**) or presence (**B**) of 12.5  $\mu\text{g/mL}$  ECg. Fluorescence intensity was measured after incubation with 10  $\mu\text{M}$  of NBD-lipid for 1, 30 and 60 min and the values normalised to the highest fluorescence emission of each NBD-lipid, achieved after 60 min at RT ( $n = 5$ ;  $\pm 1$  SD).



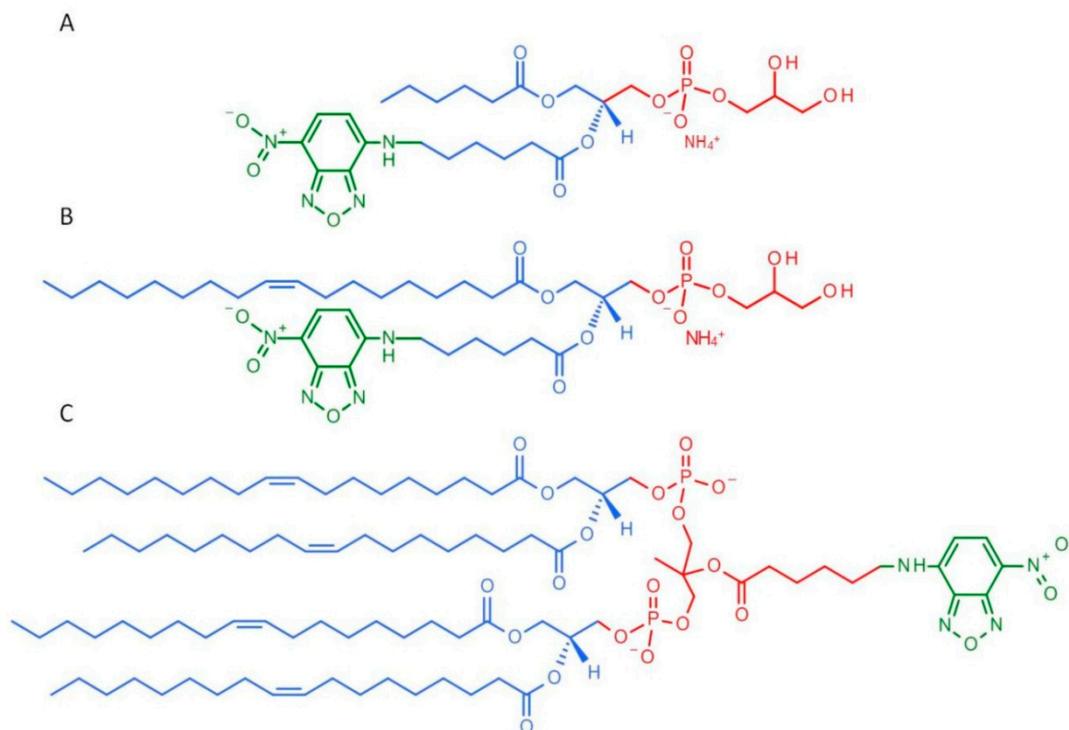
**Figure S4.** Intercalation of NBD-lipids into the EMRSA-16 membrane in the absence (**A**) or presence (**B**) of 12.5  $\mu\text{g/mL}$  ECg. Fluorescence values were normalized to the highest fluorescence emission signal, achieved with 18:1–06:0 NBD-PG, after 60 min at room temperature ( $n = 5$ ;  $\pm 1$  SD).



**Figure S5.** Intercalation of NBD-lipids into the EMRSA-16 membrane at RT and 4 °C in the absence (A) or presence (B) of 12.5 µg/mL ECg. Fluorescence intensity was determined after incubation with 10 µM of NBD-lipid. Fluorescence values were normalised to the highest fluorescence emission of each NBD-lipid, achieved after 60 min at room temperature ( $n = 5$ ;  $\pm 1$  SD).



**Figure S6.** Intercalation of NBD-lipids into the EMRSA-16 membrane at RT and 4 °C in the absence (A) or presence (B) of 12.5 µg/mL ECg. Fluorescence values were normalized to the highest fluorescence emission signal, achieved with 18:1–06:0 NBD-PG after 60 min at room temperature ( $n = 5$ ;  $\pm 1$  SD).



**Figure S7.** Fluorescent analogues: (A) 06:0–06:0 NBD-PG; (B) 18:1–06:0 NBD-PG; (C) 18:1–18:1 NBD-CL. NBD moieties are highlighted in green, fatty acid chains in blue and head groups in red.