Supplementary Information (SI) for Journal of Materials Chemistry B. This journal is © The Royal Society of Chemistry 2024

Supporting Information:

## Formation of planar biomimetic membrane with a novel

## zwitterionic polymer for nanopore sequencing

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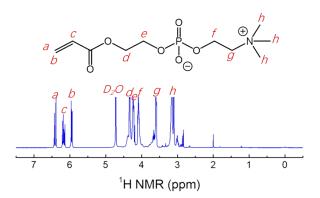


Figure S1. <sup>1</sup>H NMR spectrum of 2-acryloyloxyethyl phosphorylcholine (APC) in D<sub>2</sub>O.

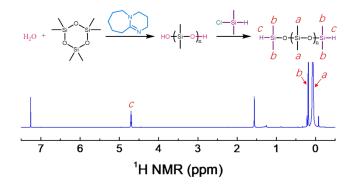


Figure S2. Synthetic route of PDMS end-capped with Si-H bonds and its representative <sup>1</sup>H NMR spectrum in CDCl<sub>3</sub>.

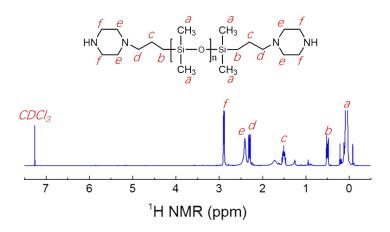


Figure S3. <sup>1</sup>H NMR spectrum of piperazine-terminated PDMS in CDCl<sub>3</sub>.