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Supporting Information

Designed Nucleus Penetrating Thymine-Capped Dendrimers: A Potential Vehicle for Intramuscular Gene Transfection

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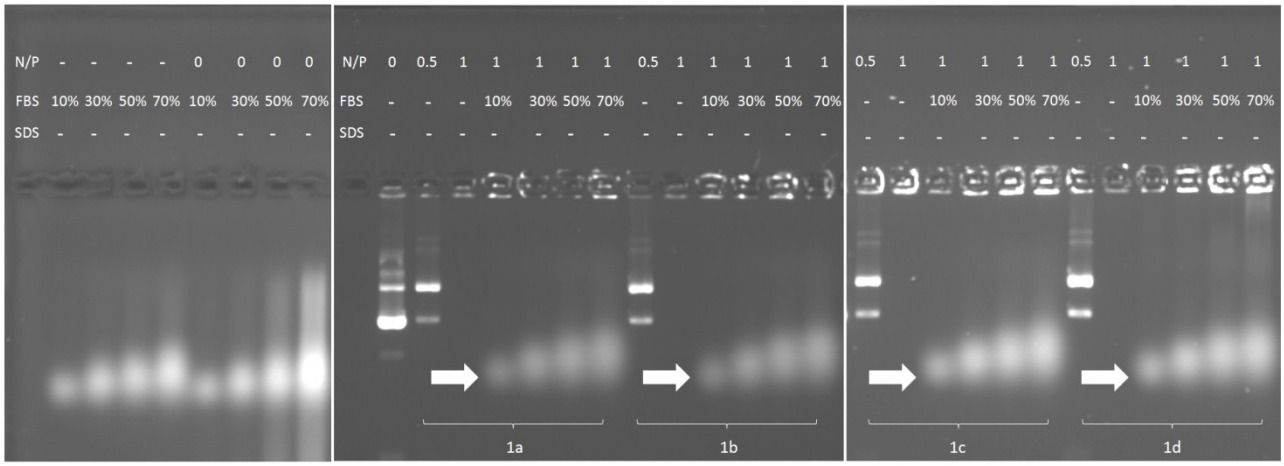

Fig. S1 The serum tolerances of various polyplexes were evaluated. The white arrows indicate the serum signals rather than those of pDNA.

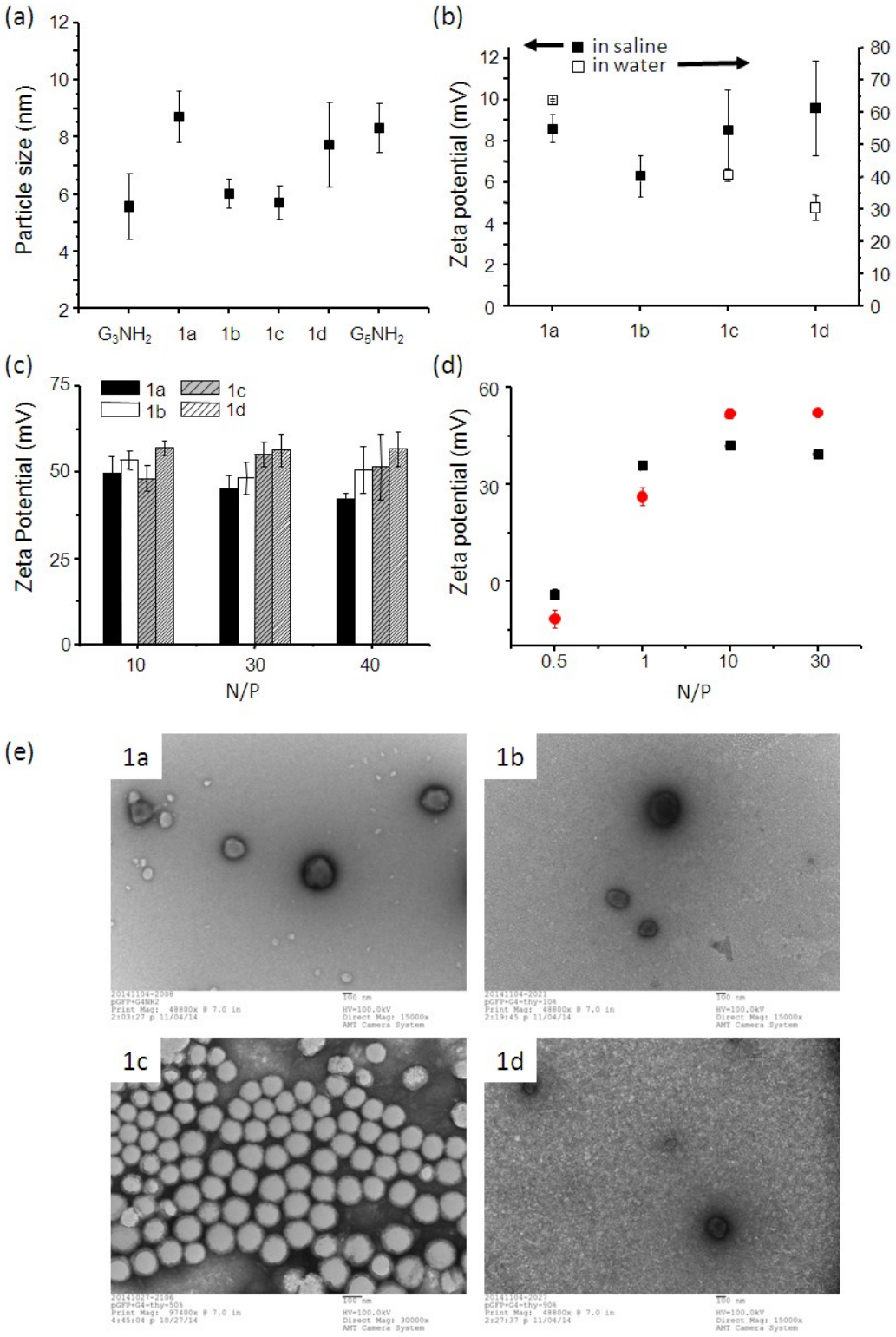

Fig. S2 The dimensions and zeta potentials of compounds 1a~1d and polyplexes 1a~1d were measured by dynamic light scattering instrument and transmission electron microscopy (TEM). Note that panel (d) only shows the comparison of polypolex 1a (black square) and polypolex 1c (red circle).

Transmission electron microscopy. The polyplexes 1a~1d were mounted on a 400-mesh Cu grid and carbon support and stained with 2% uranyl acetate solution. Excess staining reagent was removed using a filter paper, and the grid was dried prior to transmission electron microscopy measurements (Hitachi H-7650, Japan) at 100 kV and field emission gun transmission electron microscopy measurements at 200keV (JEOL, JEM-2100F, Japan)

Size and zeta potential measurements of compounds and polyplexes. The sizes and zeta potentials were measured using a zetasizer nano system (Zetasizer Nano ZS, Malvern Instruments, Worcestershire, UK). All measurements were conducted at room temperature. Each parameter was measured in triplicate to fit the statistical analysis.