

Supporting Information

mRNA vaccine induces protective immunity against the type III secretory virulence of *Pseudomonas aeruginosa*

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Supplementary Table S1 Blood chemistry 24 h after the vaccination.

	AST (IU/L)	ALT (IU/L)	LDH (IU/L)	BUN (mg/dL)	Cre (mg/dL)
Untreated	51.8 ± 4.4	44.4 ± 5.7	139 ± 26	23.2 ± 1.4	0.1 ± 0.0
LNP	83.4 ± 20.0	53.0 ± 9.4	275 ± 92	26.9 ± 1.3	0.2 ± 0.0

Measured by Dri-Chem 7000IZ system (FujiFilm, Tokyo, Japan). $n = 5$. Data are shown as the mean ± standard deviation.

Abr.: AST, aspartate aminotransferase; ALT, alanine aminotransferase; LDH, lactate dehydrogenase; BUN, blood urea nitrogen; Cre, Creatinine

Supplementary Table S2 Dynamic light scattering (DLS) measurement of LNPs.

	Size (d, nm)	PDI
LNP (ss-pcrV)	83.4 ± 1.0	0.150 ± 0.009
LNP (ss-pcrV-f)	85.5 ± 1.2	0.141 ± 0.008

Measured using Zetasizer Nano ZS (Malvern, Herrenberg, Germany). Three measurements were performed using LNPs prepared separately for each time. Data are shown as the mean ± standard deviation.