

Supplementary Materials

Secretory of nanoparticles *Neospora caninum* profilin fused with the transmembrane domain of GP64 from silkworm hemolymph

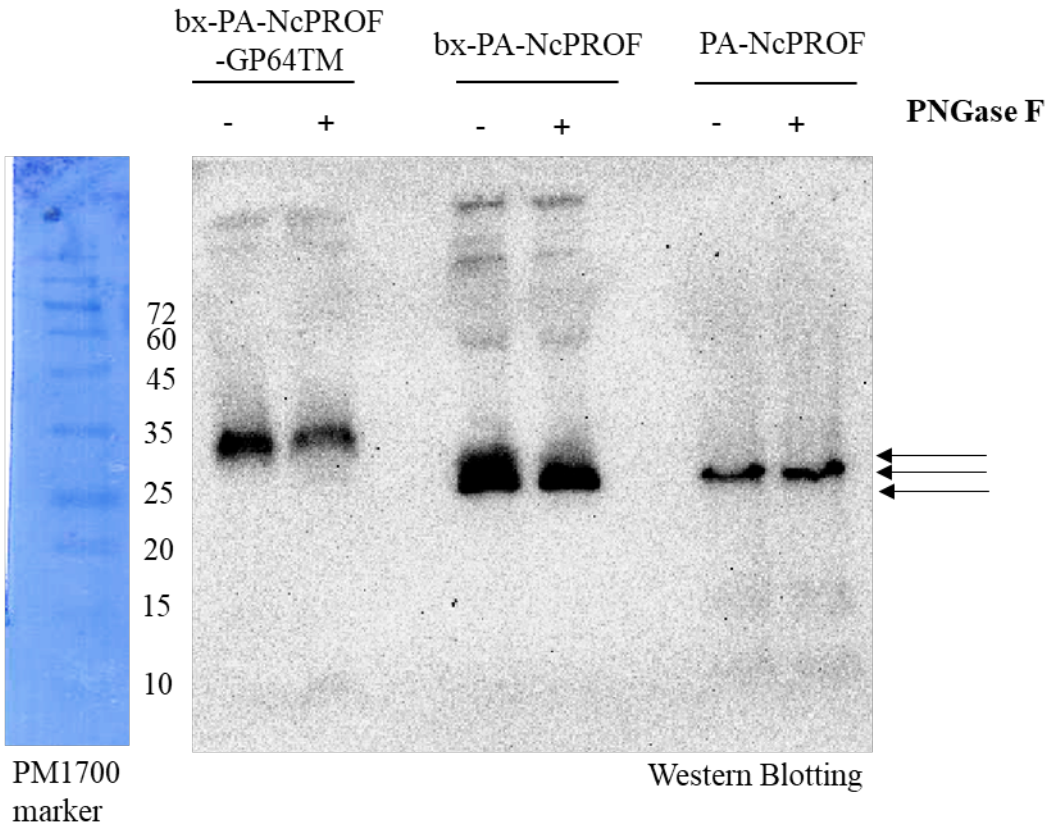
Hamizah Suhaimi¹, Rikito Hiramatsu², Jian Xu³, Tatsuya Kato^{1,2,3}, Enoch Y. Park^{1,2,3,*}

¹ Laboratory of Biotechnology, Department of Bioscience, Graduate School of Science and Technology, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka, 422-8529, Japan; noor.hamizah.binsuhaimi.16@shizuoka.ac.jp (H.S.); kato.tatsuya@shizuoka.ac.jp (T.K.); park.enoch@shizuoka.ac.jp (E.Y.P.)

² Laboratory of Biotechnology, Department of Applied Biological Chemistry, College of Agriculture, Graduate School of Integrated Science and Technology, Shizuoka University, 836 Ohya Suruga-ku, Shizuoka 422-8529, Japan; hiramatsu.rikito.17@shizuoka.ac.jp (R.H.); kato.tatsuya@shizuoka.ac.jp (T.K.); park.enoch@shizuoka.ac.jp (E.Y.P.)

³ Laboratory of Biotechnology, Research Institute of Green Science and Technology, Shizuoka University, 836 Ohya Suruga-ku, Shizuoka 422-8529, Japan; xu.jian@shizuoka.ac.jp (J.X.); kato.tatsuya@shizuoka.ac.jp (T.K.); park.enoch@shizuoka.ac.jp (E.Y.P.)

* Correspondence: park.enoch@shizuoka.ac.jp ; Tel. & Fax: +81-54-238-4887



*SDS-PAGE Condition : 10% Gel Acrylamide, 150 V, 60 min, A: Constant

Figure S1. Analysis of *N*-Glycan attached to NcPROFs (bx-PA-NcPROF-GP64TM, bx-PA-NcPROF, PA-NcPROF) expressed in hemolymph of silkworm. Western blotting with anti-PA tag antibody deglycosylated with PNGase F (incubation at 37°C for overnight) in denature condition. Upper, middle and lower arrows show the molecular weight of bx-PA-NcPROF-GP64TM, bx-PA-NcPROF and PA-NcPROF, respectively.

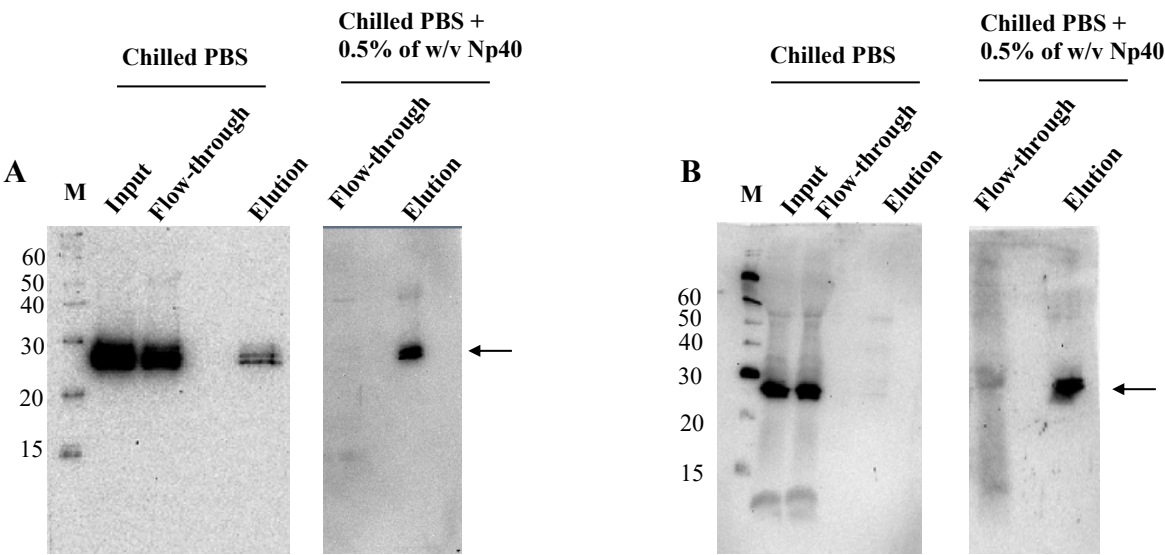


Figure S2. Western blots of purified bx-PA-NcPROF (A) and PA-NcPROF (B) from hemolymph with and without treatment with 0.5% of w/v Np40 using anti-PA tag affinity chromatography. M indicates molecular weight marker; arrows show the recombinant bx-PA-NcPROF and PA-NcPROF.

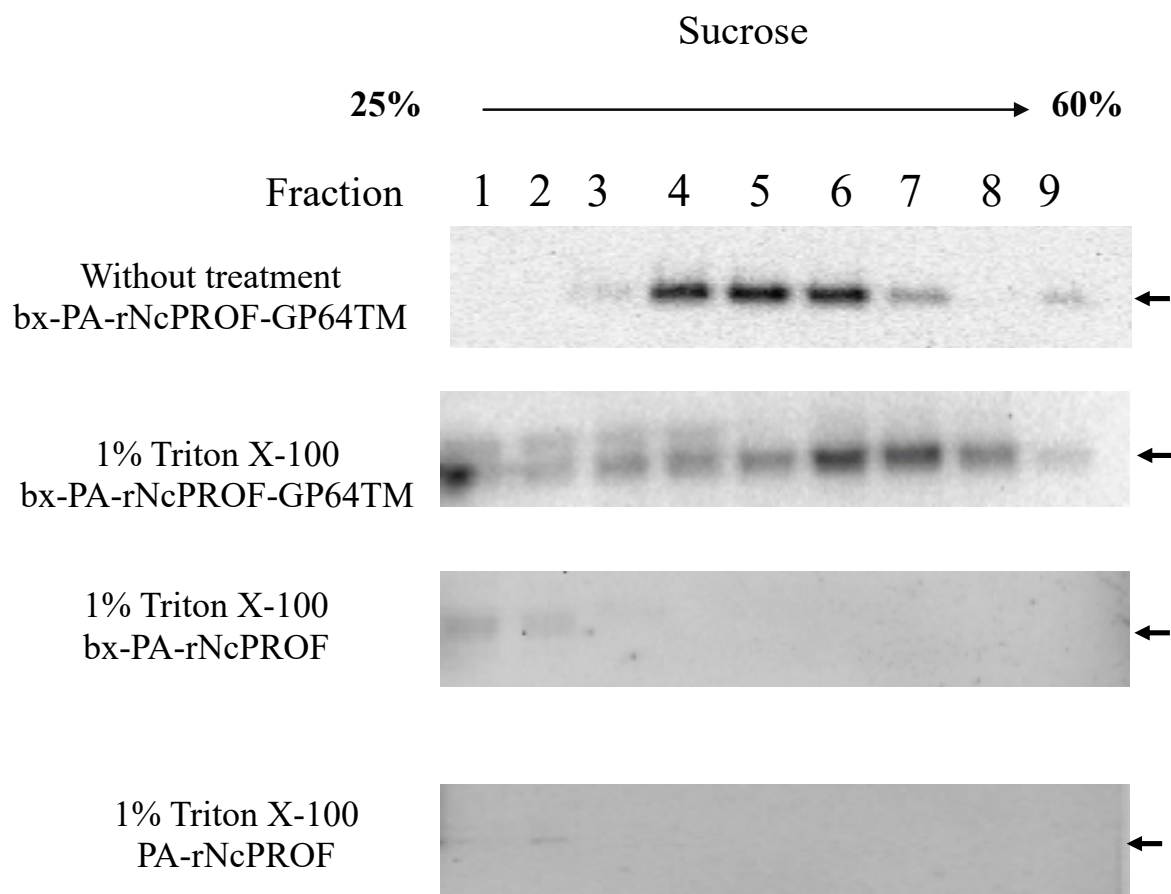


Figure S3. Western blotting analysis of incorporation level of bx-PA-NcPROF-GP64TM, bx-PA-NcPROF and PA-NcPROF with and without treatment of 1% Triton X-100.