

@ Detected by anti -PamA rabbit serum & anti-rabbit-HRP conjugate-2nd antibody
@ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
@ Use by cut out left-half of the gel to show the fractionation of PamA protein in *N .meningitidis*

Fig 2A_raw_image



- @ Detected by anti-LptA rabbit serum & anti-rabbit-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Use by cut out right-half of the gel to show the fractionation of LptA protein (inner membrane protein) in *N .meningitidis*



- @ Detected meningocccal spheroplasted meningococcil digested by Protease K followed by SDS-PAGE & Western blotting
- @ Detectedby anti -GST mAb & anti-mouse-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Use by cutting out the left part of bands to show the digestion of GST protein in N .meningitidis

Fig 2D_raw_image



@ Detected spheroplasted meningococci digested by Protease K followed by SDS-PAGE & Western blotting

- @ Detected by anti-PamA rabbit serum & anti-rabbit-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Use by cutting out the left part of the image to show the digestion of PamA protein

Fig 2E_raw_image



@ Effeciency of incorporation of ncAAs into gst P51amb or P52amb against wt GST by SDS-PAGE & Western blotting

- @ Detected by anti-GST mAb & anti-mouse-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out to remove margin of the image

Fig 3B_raw_image



- @ Effeciency of crosslinking with ncAAs in GST E51amb and P52amb monitored by Western blotting
- @ Detected by anti-GST mAb & anti-mouse-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out margin of the image

Fig 3C_raw_image



@ re-examination of samples used in S3 Fig by SDS-PAGE & Western blotting

@ Detected by anti -(His)6 mAb & anti-mouse-HRP conjugate-2nd antibody

@ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)

@ Used this panel without any modification



@ Samples purified with His resin & StrepTactin resin and analyzed by SDS-PAGE

- @ Visulalized by CBB staining
- @ captured by a general scanner
- @ Used by cutting out the center of the image

Fig 5A_raw_image



- @ Purified samples with His resin & StrepTaction by SDS-PAGE & Western blotting
- @ Detectedby anti-(His)6 mAb & anti-mouse-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out the center of the image

Fig 5B_raw_image



- @ Purified crosslinked samples with His resin by SDS-PAGE & Western blotting
- @ Detected by anti-(His)6 & FLAG mAbs & anti-mouse-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out the upper part of the image



@ Purified crosslinked samples with His resin by SDSP-AGE & Western blotting
@ Detected by anti -(His)6 mAb & anti PilE rabbit serum & anti-mouse/rabbit-HRP conjugate-2nd antibody
@Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
@ Used by cutting out the center of the image

Fig 5D_raw_image



- @ Purified crosslinked samples with His resin by SDSP-AGE & Western blotting
- @ Detectedby anti-(His)6 mAb & anti PilE rabbit serum & anti-mouse/rabbit-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out the left part of the gel



- @ PilE expression in these N. meningitidis strains by SDS-PAGE & Western blotting
- @ Detected by anti-PilE rabbit serum & anti-rabbit-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out the left part of the image

Fig 7B_raw_image



@ PilV expression in these *N. meningitidis* strains by SDS-PAGE & Western blotting
@ Detectedby anti-PilV rabbit serum & anti-rabbit-HRP conjugate-2nd antibody
@ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)

@ Used by cutting out the right part of the image

Fig 7C_raw_image



- @ PilX-FLAG expression in these N. meningitidis strains by SDS-PAGE & Western blotting
- @ Detectedby anti-FLAG mAb & anti-mouse-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out the middle part of the image

Fig7 D_raw_image



laclq-Ptac-pyIRS (Y306A/384F)/T + pamA allele on IncQ

- @ mAzZLys-dependent expression of PamA amber mutants by SDS-PAGE & Western blotting
- @ Detected by anti-PamA rabbit serum & anti-rabbit-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out the left part of the gel

S2A Fig_raw_image



@ UV crosslinked band to the PamA protein containing mAzZLys in N. meningitidis by SDS-PAGE & Western blotting

- @ Detectedby anti-(His)6 mAb & anti-mouse-HRP conjugate-2nd antibody
- @ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used this image directly

S2B Fig_raw_image



@ Purified samples with His resin & analyzed by SDS-PAGE & Western blotting
@ Detectedby anti-(His)6 mAb & anti-mouse-HRP conjugate-2nd antibody
@ Captured by Chemiliminace imaging system: FUSION SOLO 5 (M&S)
@ Use this image without any modificiation



- @ Crosslinked recombinants expressed in *E. coli* were purified with amylose resin and checked by SDS-PAGE & Western blotting
- @ Detected by staining with CBB
- @ Captured by scanner
- @ Used by cutting out the left part of the gel

S6A Fig_raw_image



@ Crosslinked recombinants expressed in *E. coli* were purified with amylose resin and checked by SDS-PAGE & Western blotting

- @ Detected by staining with anti-MBP mAb & anti-mouse-HRP 2nd antibody
- @ Chemiliminace imaging system: FUSION SOLO 5 (M&S)
- @ Used by cutting out the right part of the image

S6B Fig_raw_image



@ Crosslinked protein recombinants expressed in *E. coli* were purified

with amylose resin and checked by SDS-PAGE & Western blotting

@ Detected with ant-PilE rabbit serum & anti-rabbit-HRP 2nd antibody

@ Chemiliminace imaging system: FUSION SOLO 5 (M&S)

@ Used the entire image

S6C Fig_raw_image