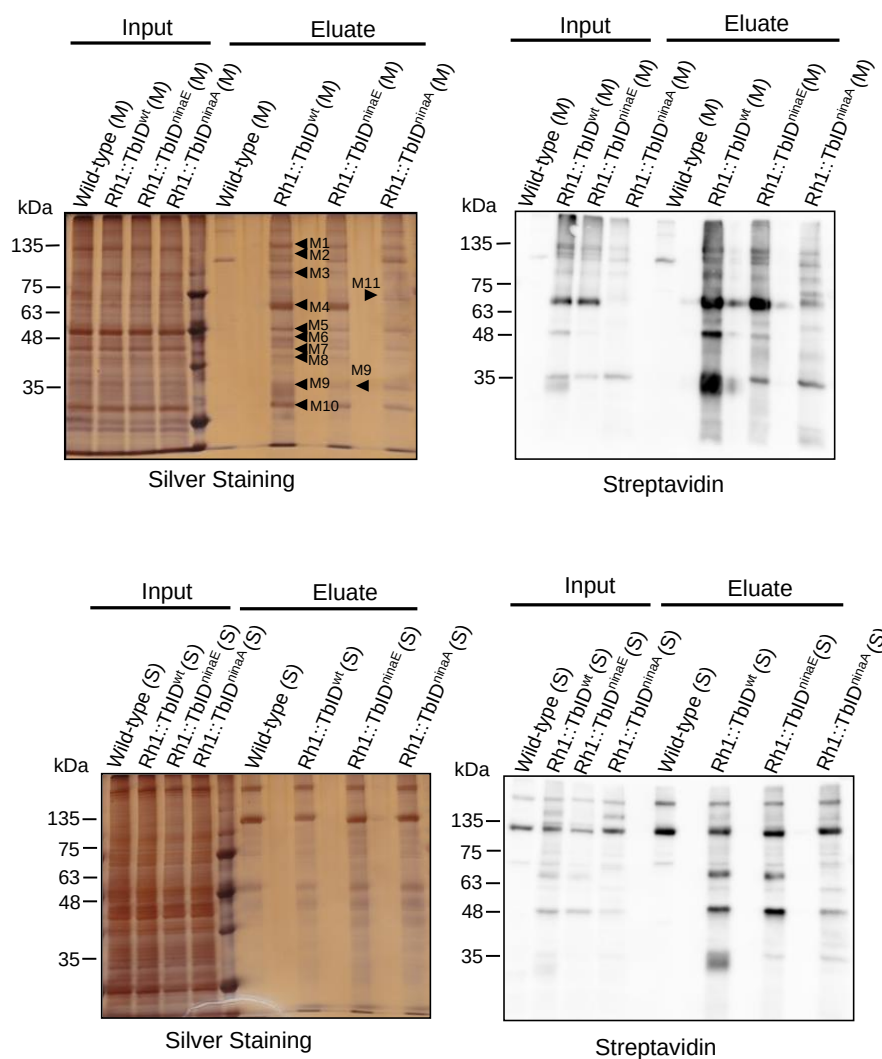


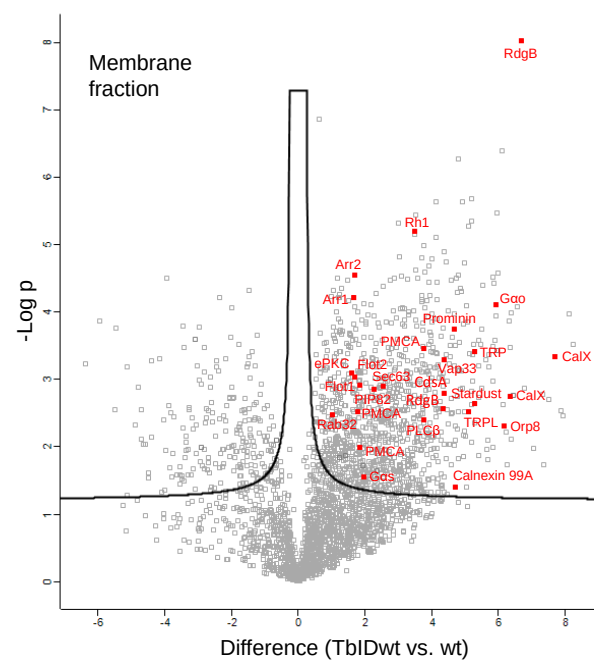
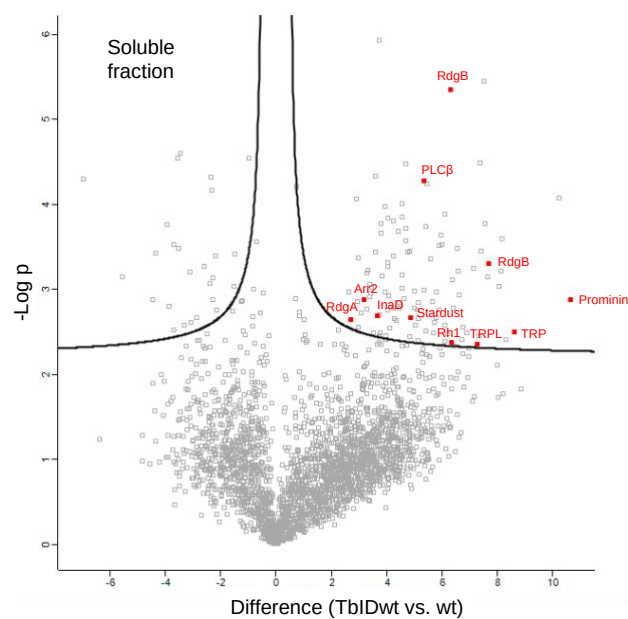
Suppl. Table 1S: Proteins identified in samples from excised gel slices
Excel File 1

Suppl. Table 2S: Proteins identified in samples from on-bead digestions
Proteins listed in Table 1 are highlighted in yellow.
Excel File 2



Suppl. Figure 1S: Streptavidin pulldown of biotinylated proteins for mass spectrometry analysis.

Wild-type flies and indicated mutants expressing *Rh1::TbID* were illuminated with white light for 12 h. Protein extracts of membrane proteins (M, upper panels) and of soluble proteins (S, lower panels) were incubated with streptavidin beads to pull down biotinylated proteins. Input that is extracted before streptavidin pulldown, and proteins eluted from the beads after the pulldown were loaded on 10 % SDS gels (equivalent of 1 and 25 heads per lane for input and eluate, respectively). One gel was stained with silver nitrate (left panels) and an equivalent gel was blotted and probed with streptavidin (right panels). Arrowheads indicate protein bands that were excised for LC-MS/MS analysis. The size of molecular weight markers in kDa is indicated on the left.



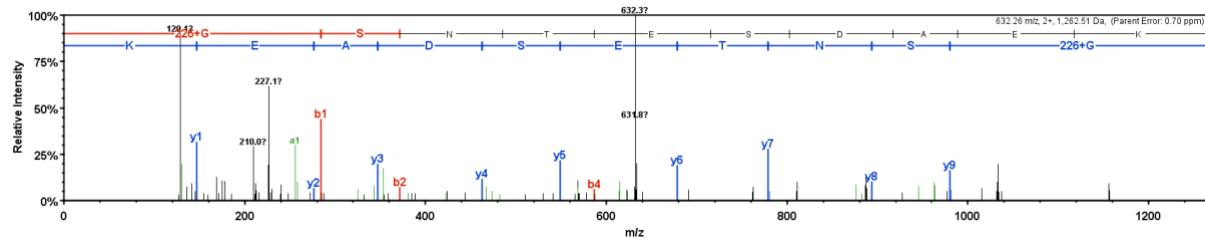
Suppl. Figure 2S: Volcano plots showing protein abundance differences between Rh1::TbIDwt and wt flies samples from on-bead digestion experiments.

Upper panel: soluble fraction, lower panel: membrane fraction. Proteins that were significantly increased or decreased in abundance according to the two-sided t-test (FDR 0.05, $S_0 = 0.1$) are indicated by a solid black line. Proteins that were also identified in the in-gel digest experiment (Table 1) are highlighted in red.

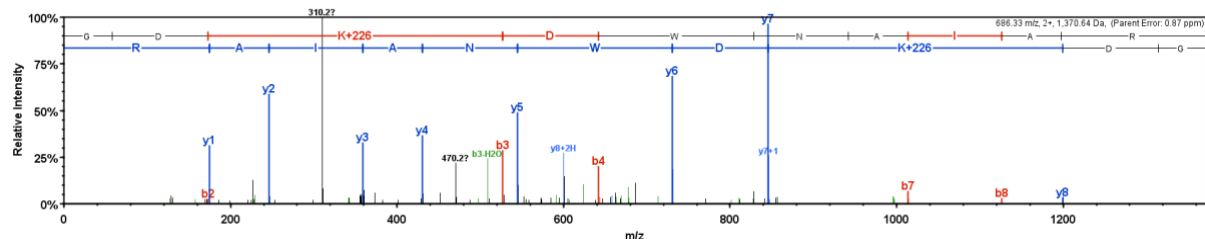
Suppl. Figure 3S: MS/MS spectra of biotinylated peptides.

MS/MS spectra of biotinylated peptides from TRP (A-G), Rh1 (H,I), Prominin (J), NorpA (K), CdsA (L), Orp8 (M), Dnal (N), and Use1 (O) are shown.

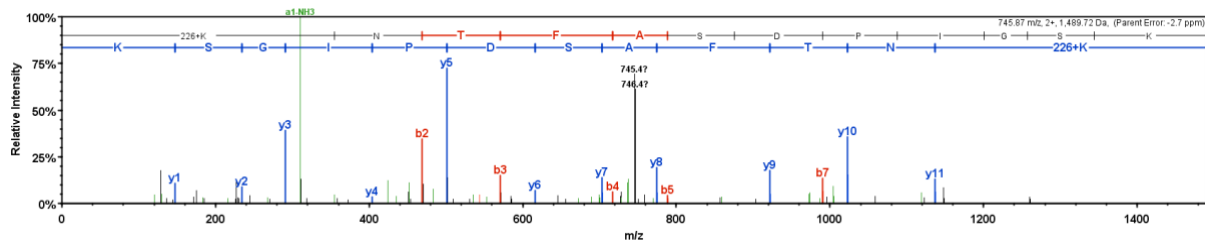
(A) MS/MS spectrum of peptide GSNTESDAEK.



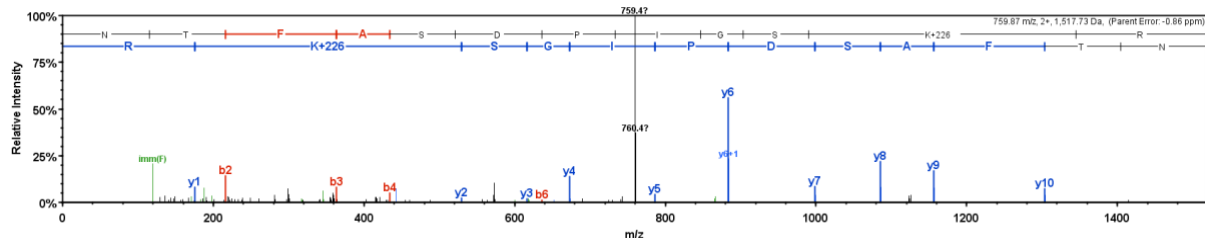
(B) MS/MS spectrum of peptide GDKDWNAIAR.



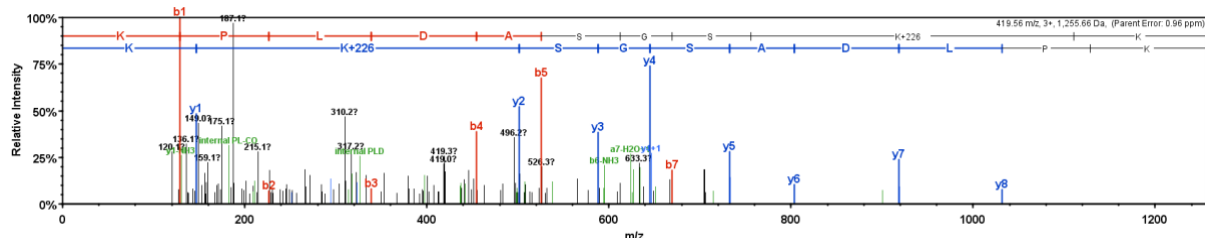
(C) MS/MS spectrum of peptide KNTFASDPIGSK.



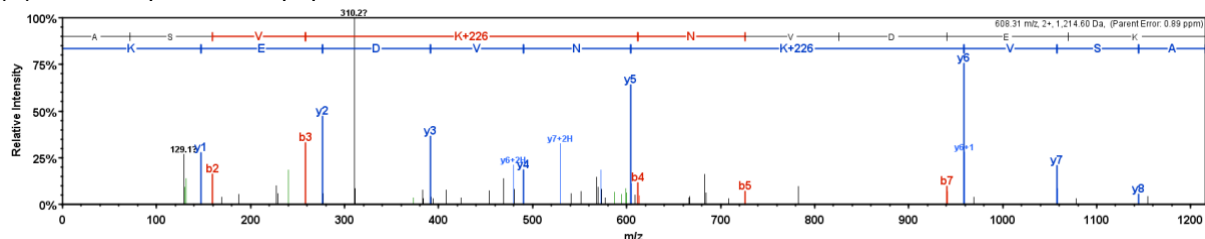
(D) MS/MS spectrum of peptide NTFASDPIGSKR.



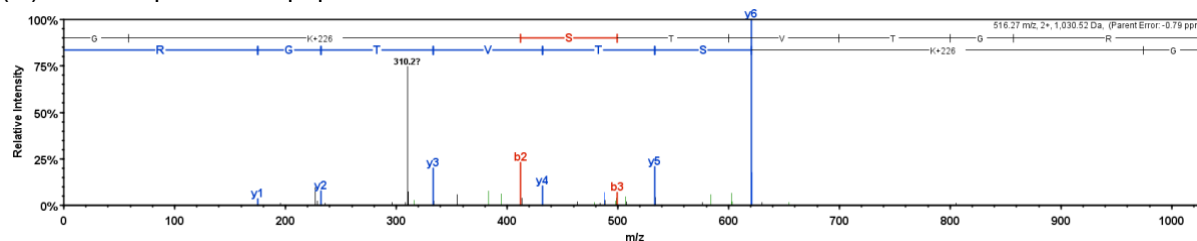
(E) MS/MS spectrum of peptide KPLDASGSKK.



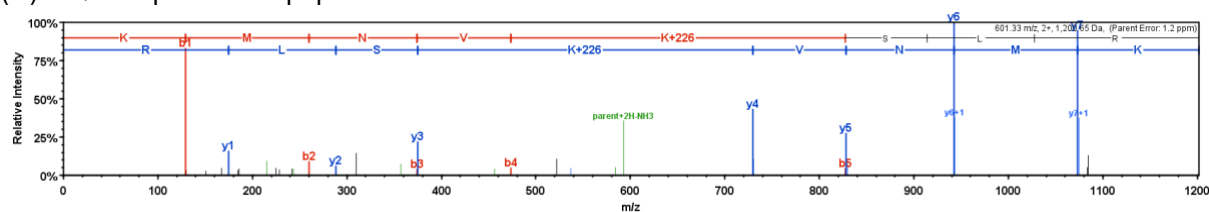
(F) MS/MS spectrum of peptide ASVKNVDEK.



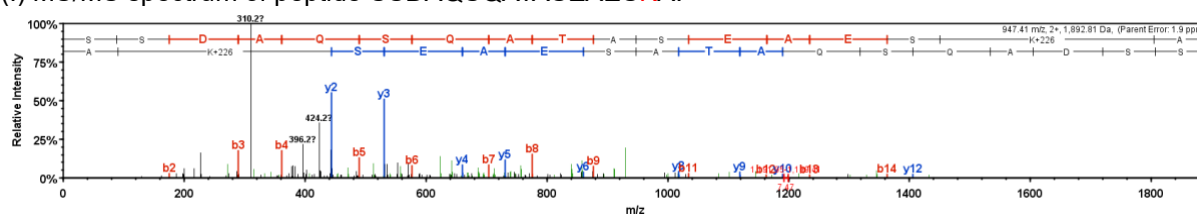
(G) MS/MS spectrum of peptide GKSTVIGR.



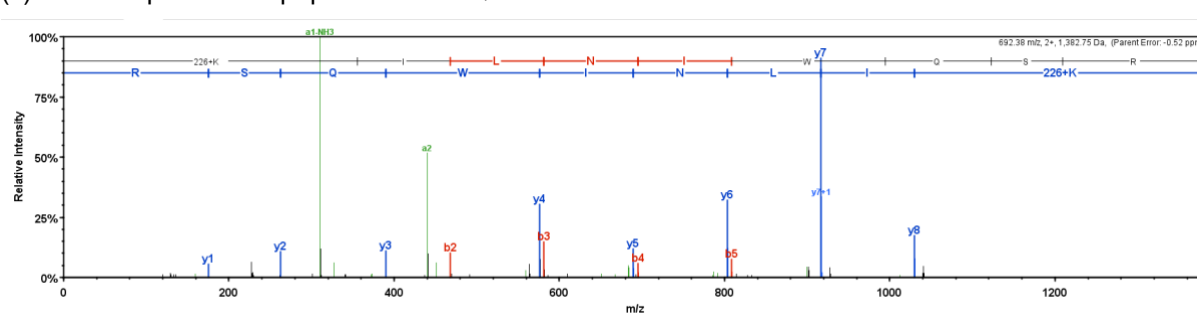
(H) MS/MS spectrum of peptide KMNVKSLR.



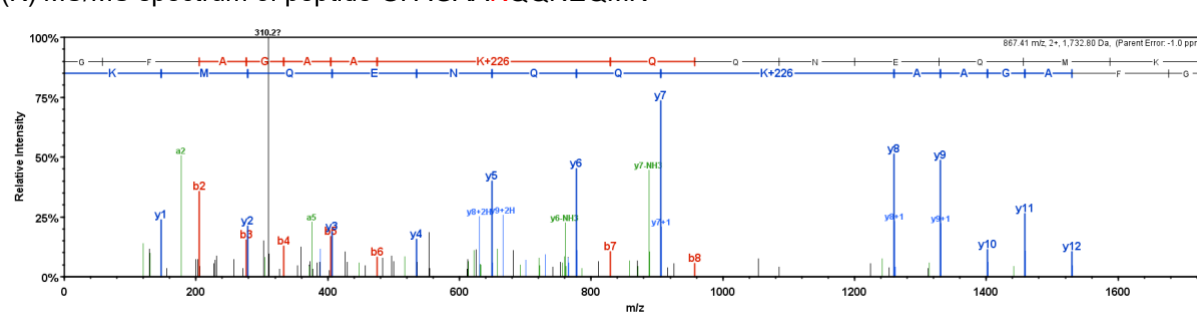
(I) MS/MS spectrum of peptide SSDAQSQATASEAKA.



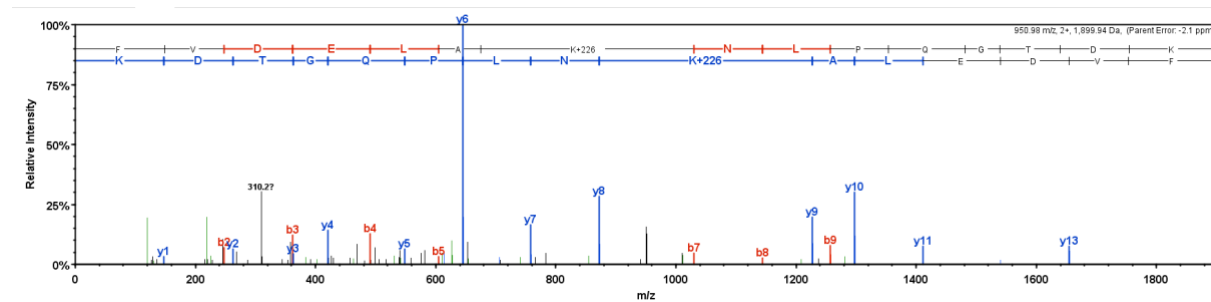
(J) MS/MS spectrum of peptide KILNIWQSR



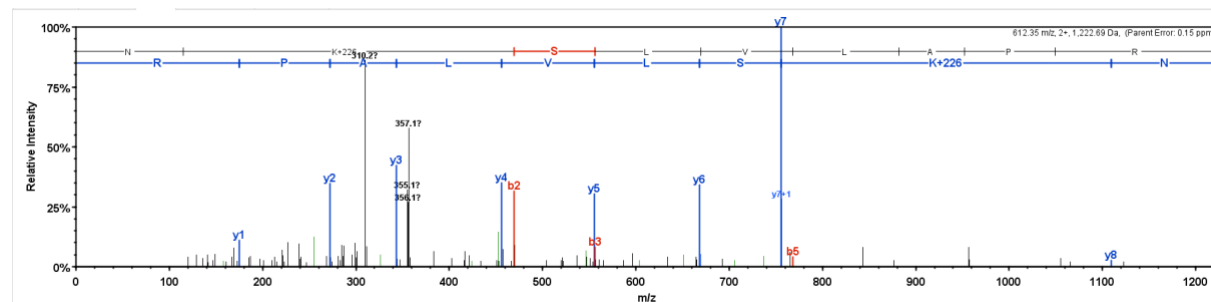
(K) MS/MS spectrum of peptide GFAGAAKQQNEQMK



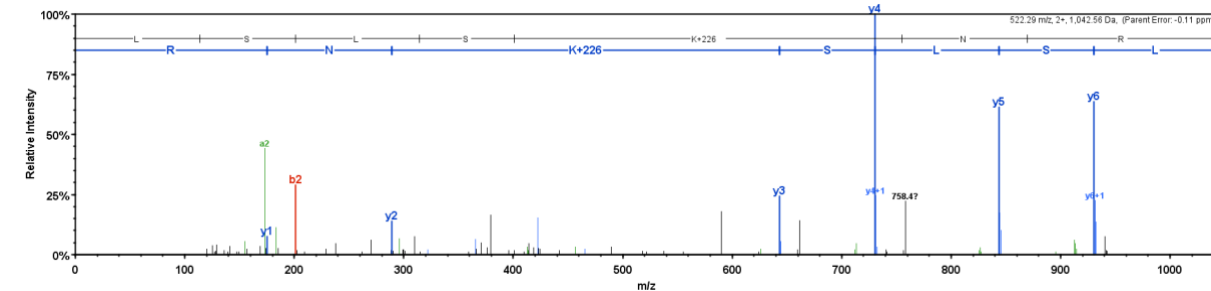
(L) MS/MS spectrum of peptide FVDELA**K**NLPQGTDK



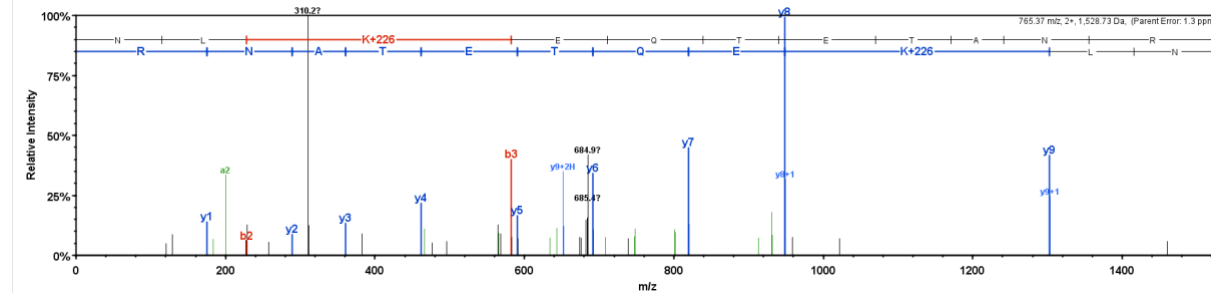
(M) MS/MS spectrum of peptide **N**KSLVLAPR



(N) MS/MS spectrum of peptide LSL**S**KNR



(O) MS/MS spectrum of peptide NL**K**EQTETANR



Suppl. Figure 4S: Full-length blots corresponding to cropped blots shown in figures as indicated.

Fig. 1B, upper panel



Fig. 1B, upper panel, post-contrast

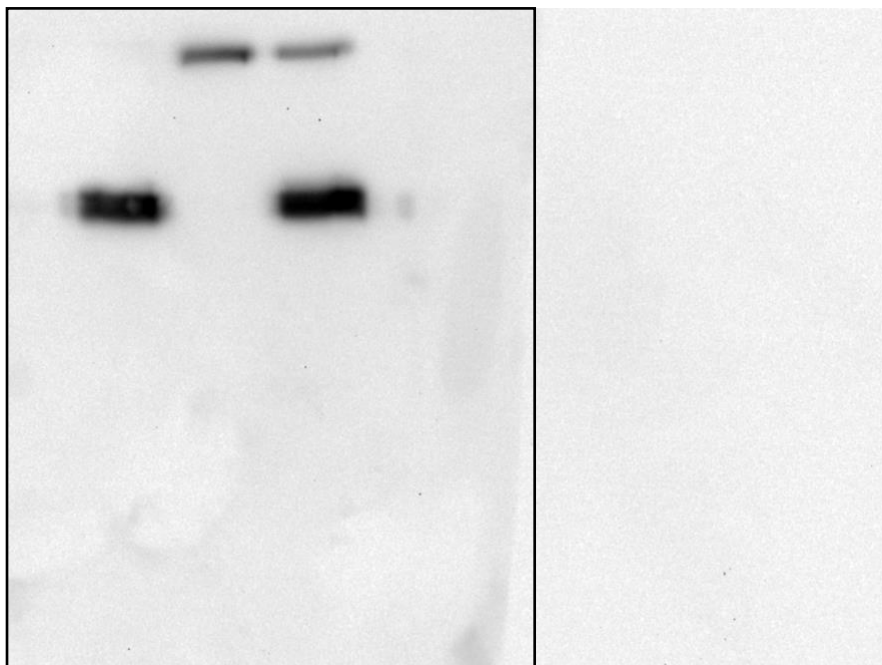


Fig. 1B, lower panel

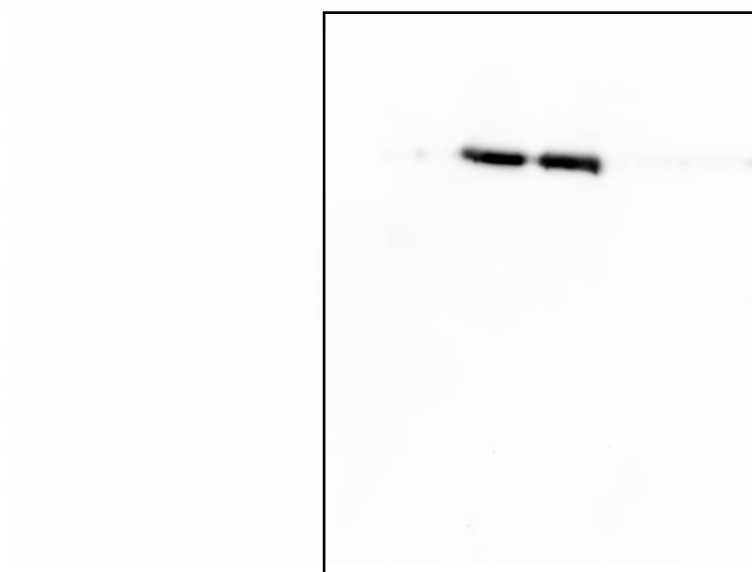


Fig. 1B, lower panel, post-contrast

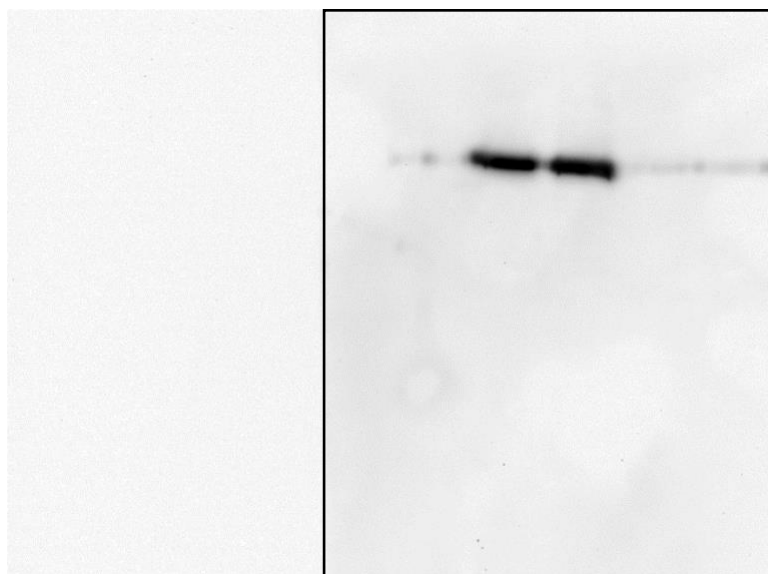


Fig. 1D, first recording

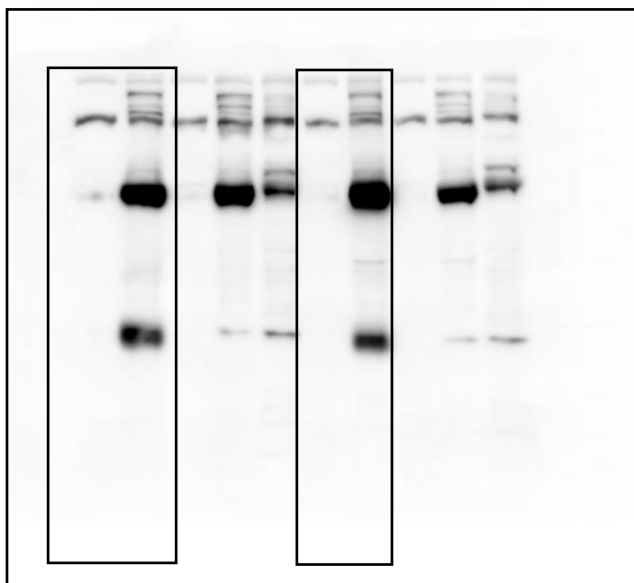


Fig. 1D, second recording

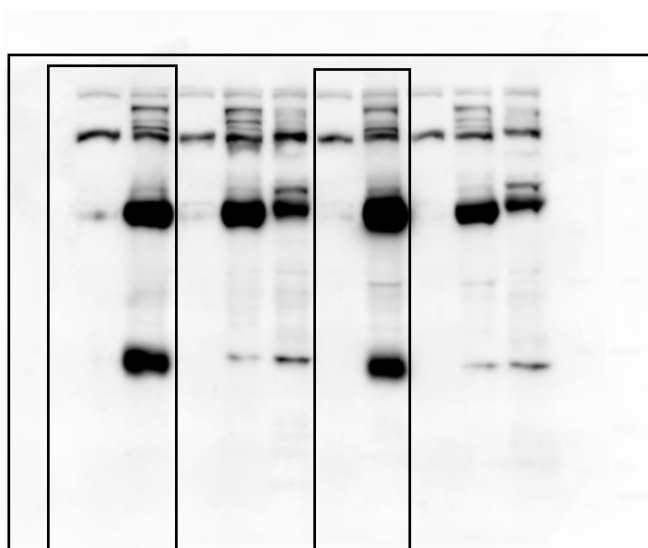


Fig. 3A, upper panel, first recording

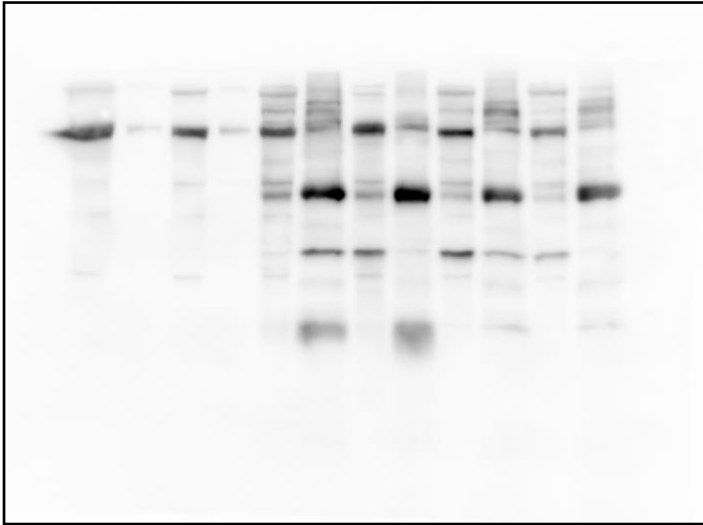


Fig. 3A, upper panel, second recording

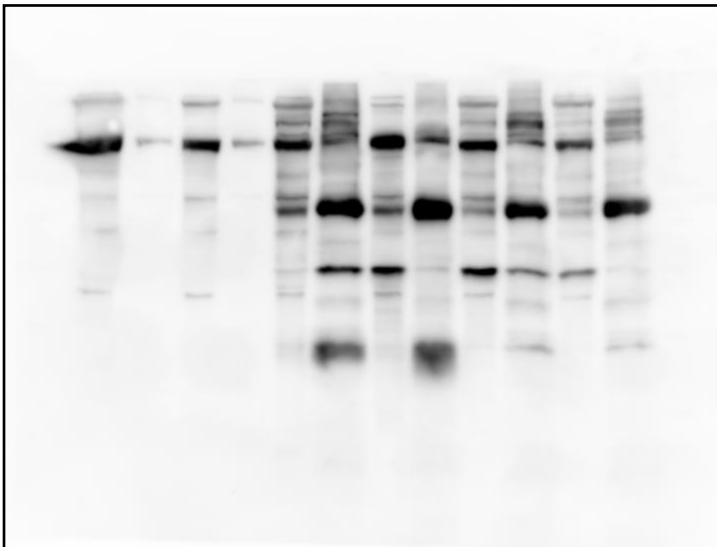


Fig. 3A, lower panel

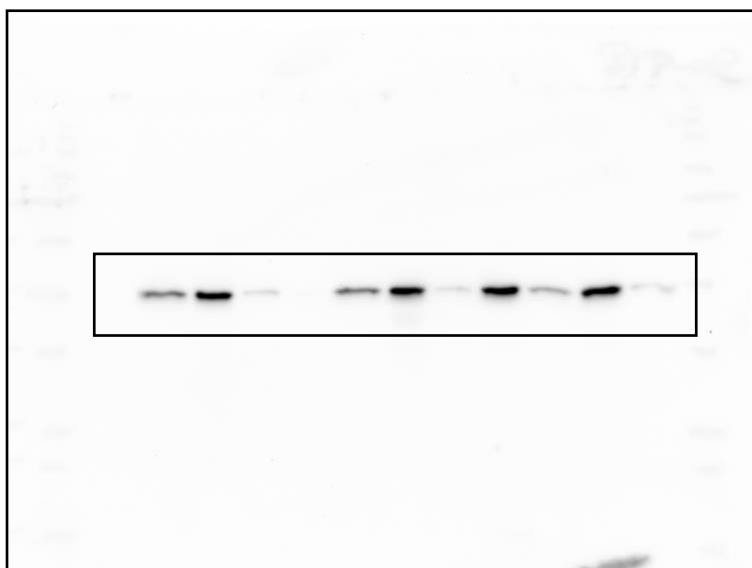


Fig. 3B, upper panel, first recording

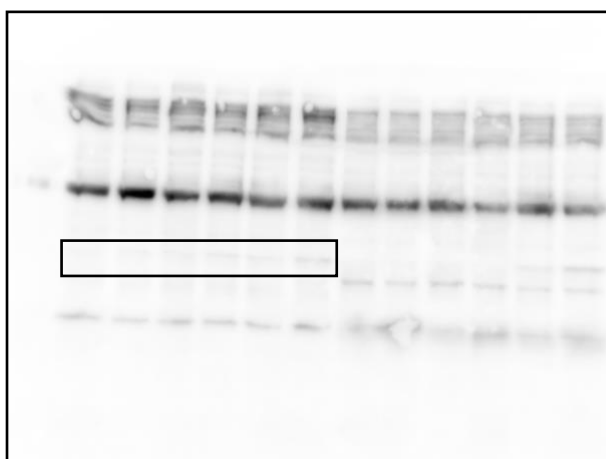


Fig. 3B, upper panel, second recording

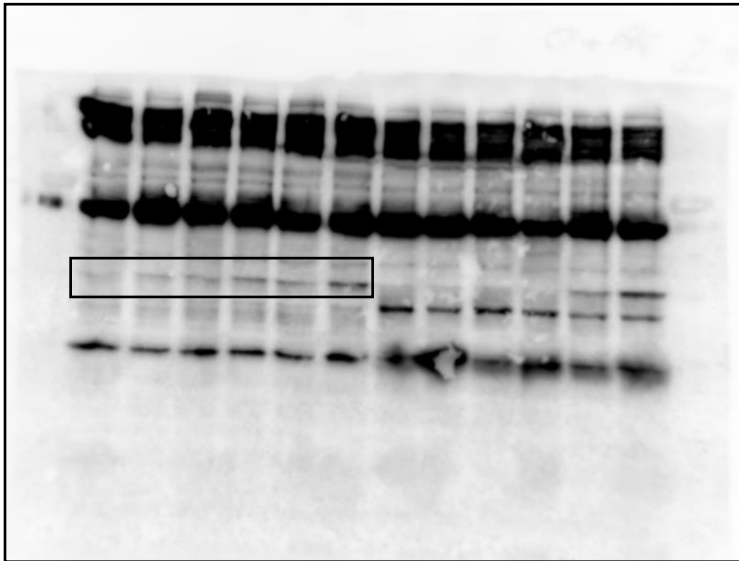


Fig. 3B, lower panel

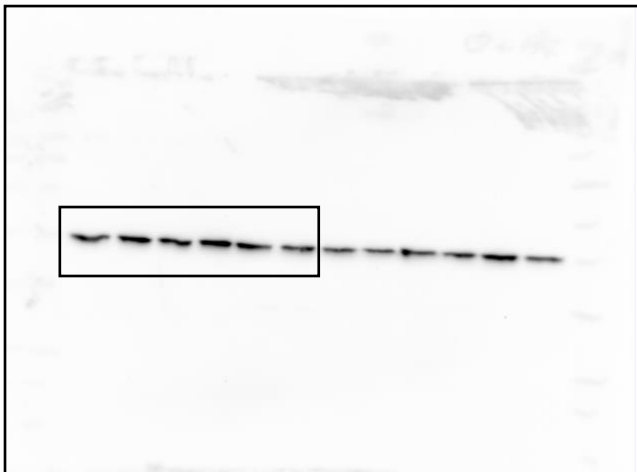


Fig. 4, first panel, first recording

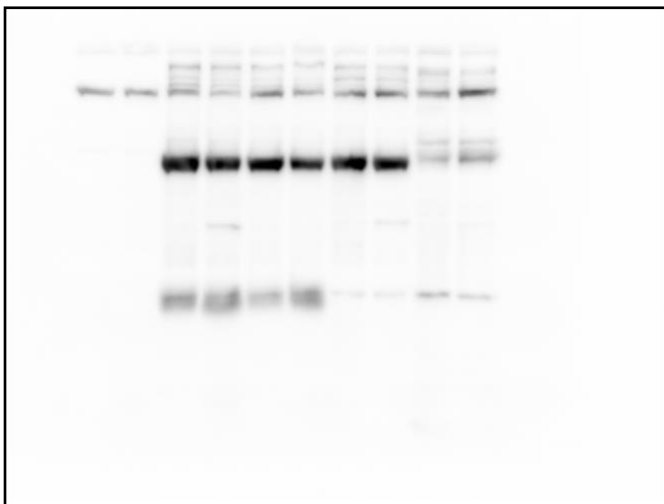


Fig. 4, first panel, second recording

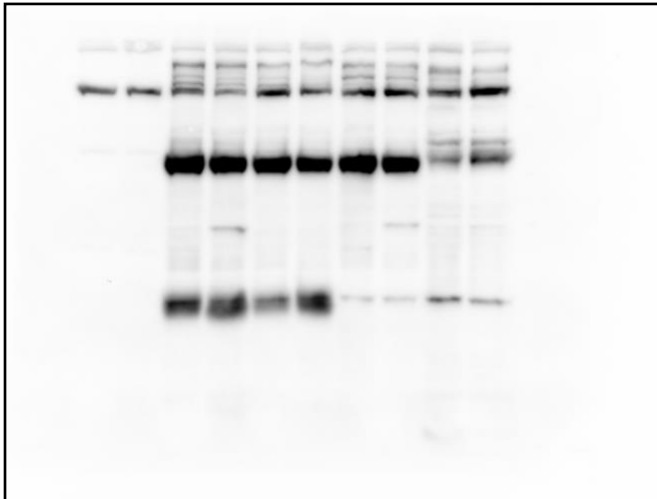


Fig. 4, second panel

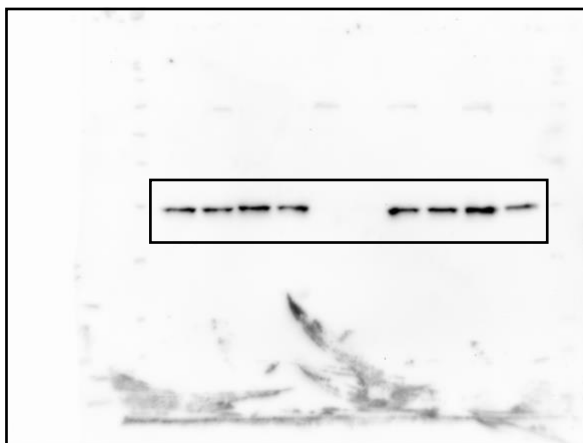


Fig. 4, third panel



Fig. 4, fourth panel



Fig. 5, right

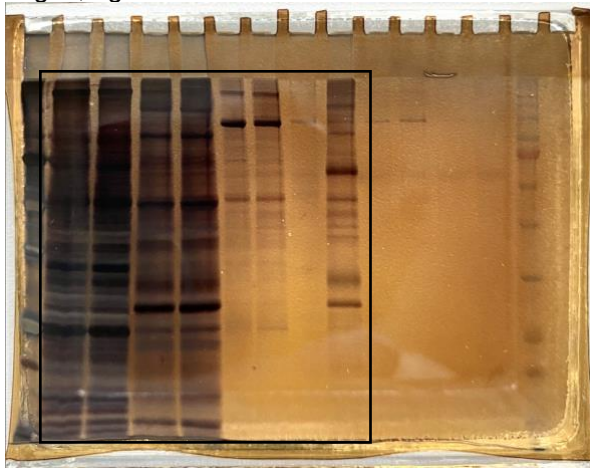


Fig. 5, left

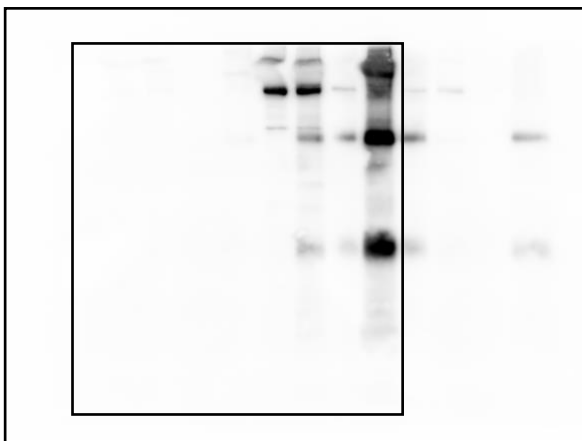


Fig. 5, left, second recording

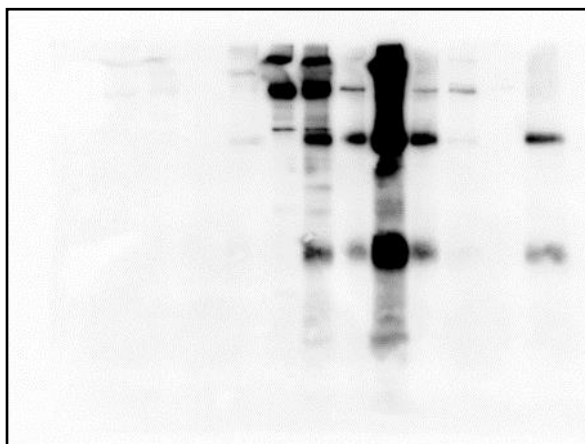


Fig. 6A, upper panel

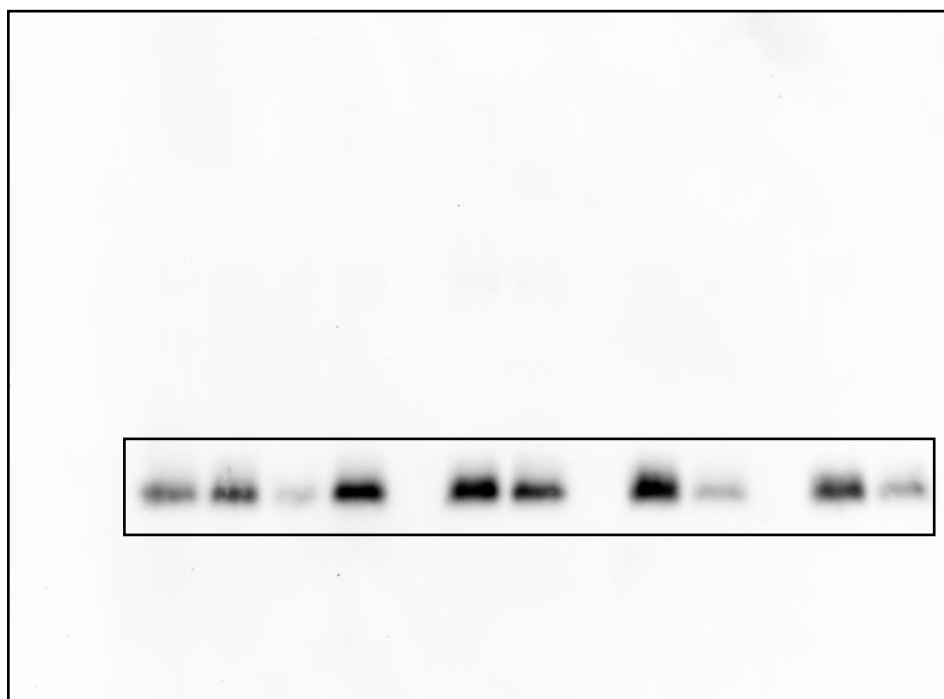
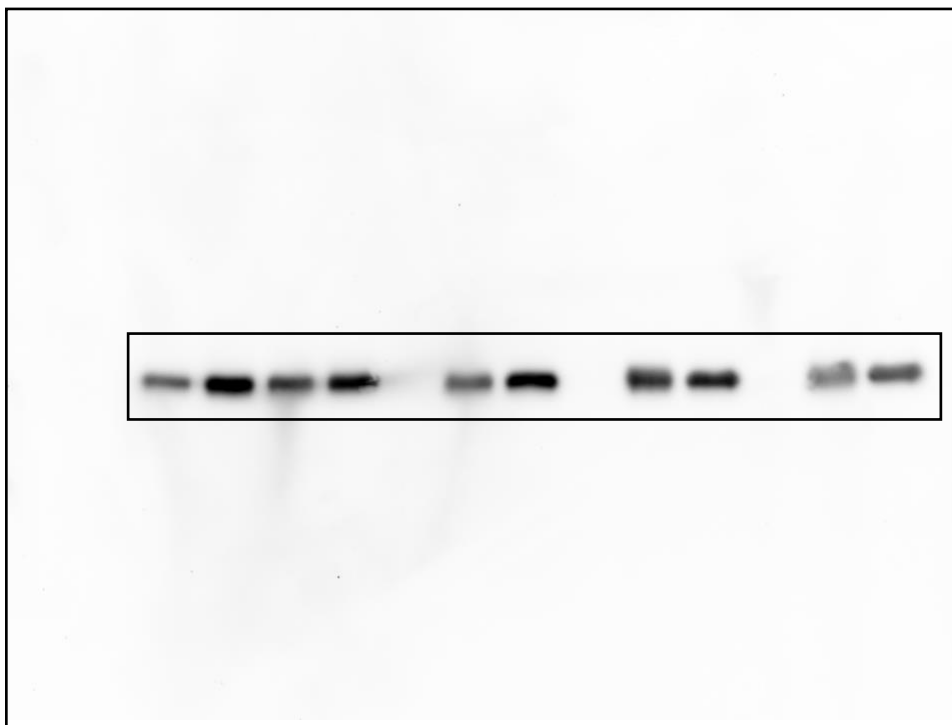
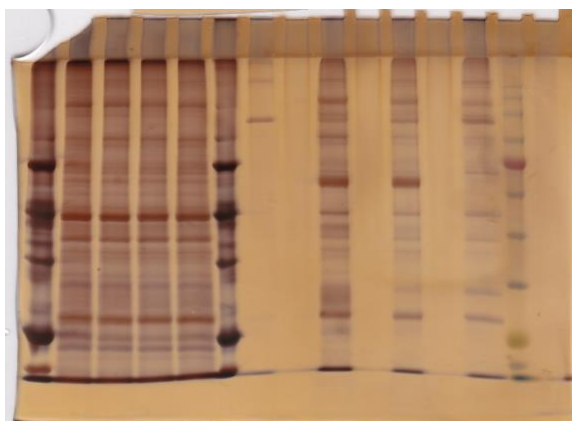


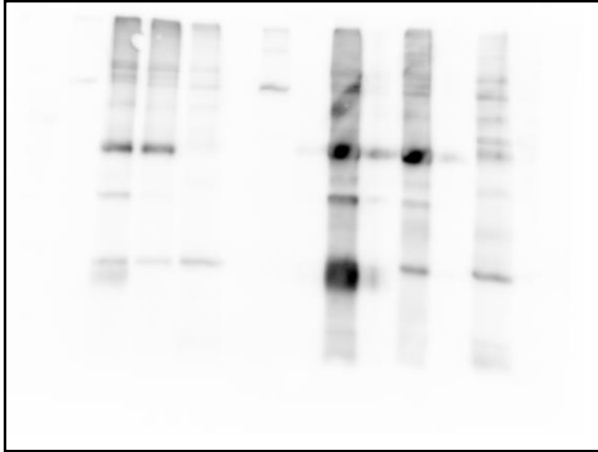
Fig. 6A, lower panel



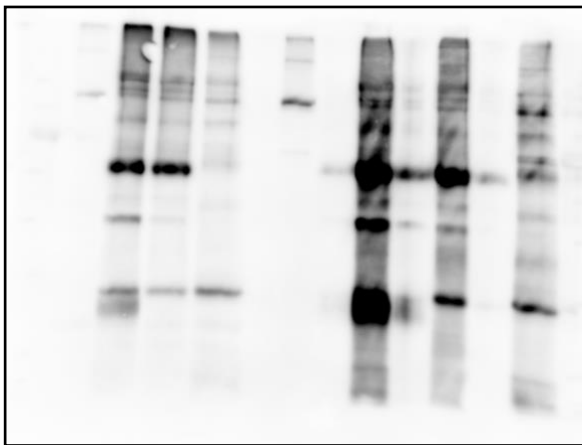
Suppl. Figure 1S, upper panel, right



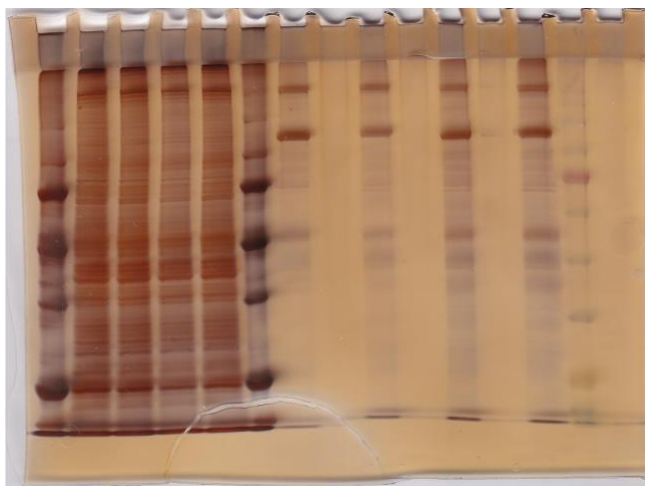
Suppl. Figure 1S, upper panel, left, first recording



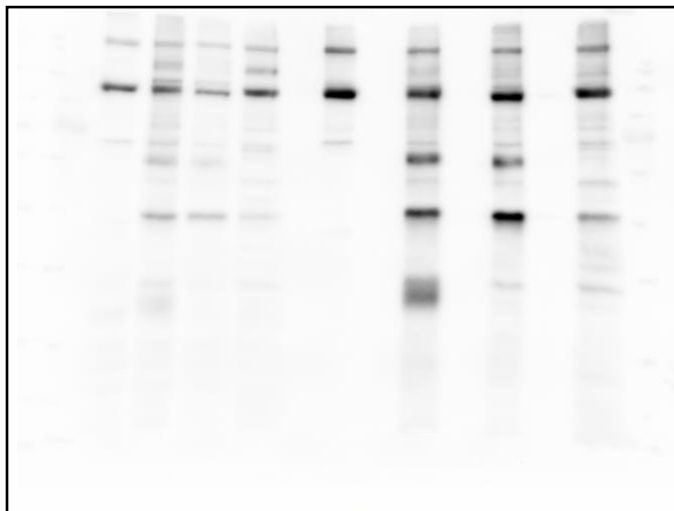
Suppl. Figure 1S, upper panel, left, second recording



Suppl. Figure 1S, lower panel, right



Suppl. Figure 1S, lower panel, left, first recording



Suppl. Figure 1S, lower panel, left, second recording

