

Supplementary Figure Legends

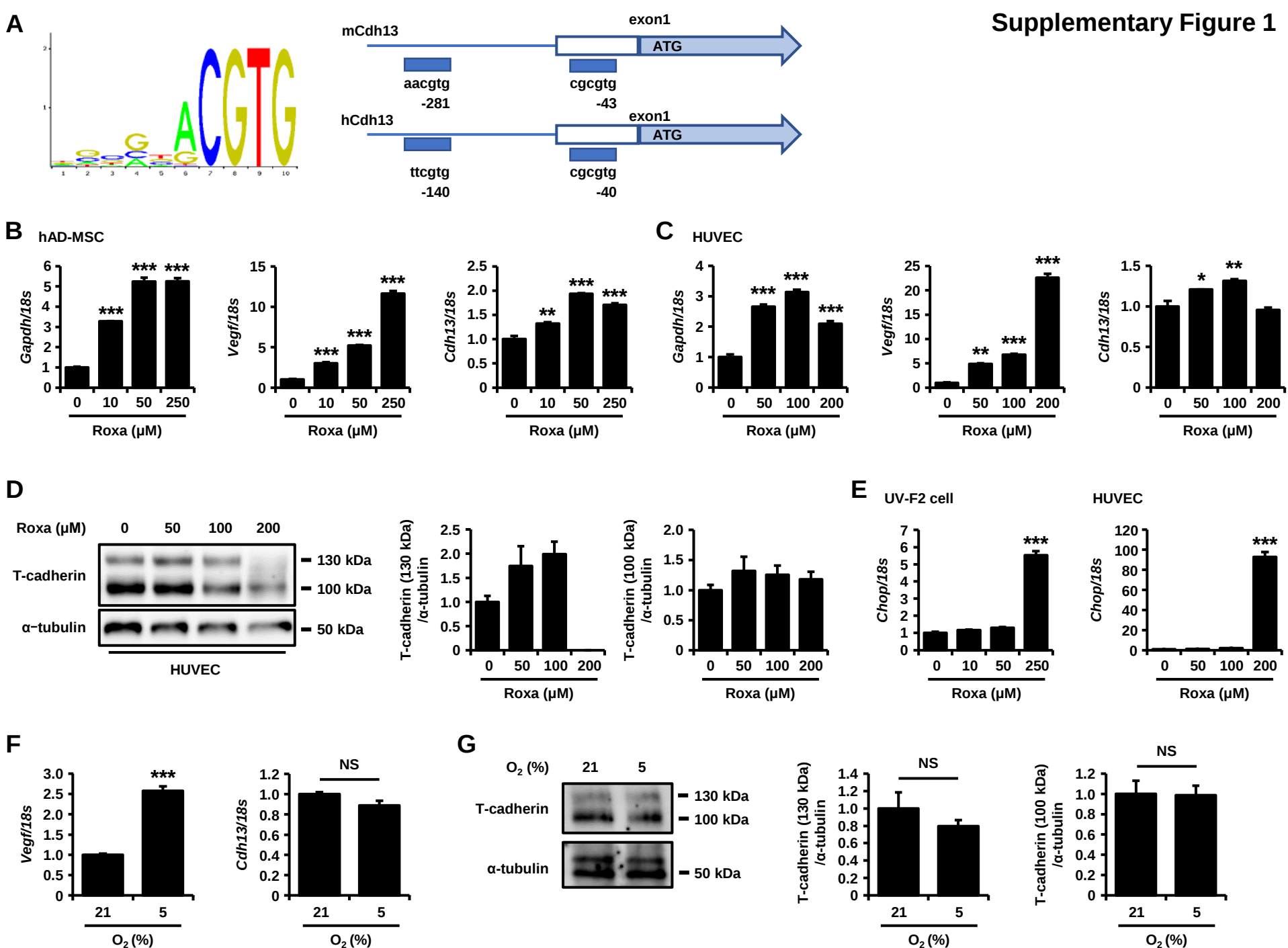
Supplementary Figure 1. Effects of roxadustat and hypoxia on T-cadherin expression in T-cadherin-expressing cells.

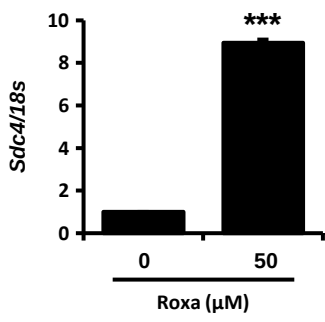
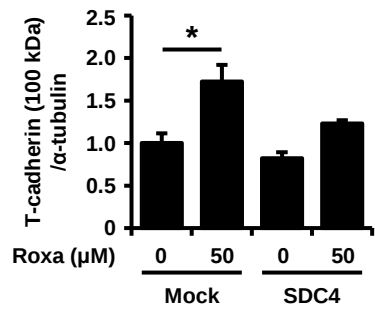
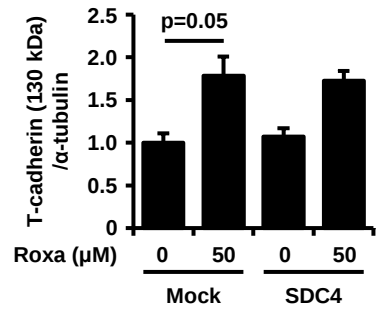
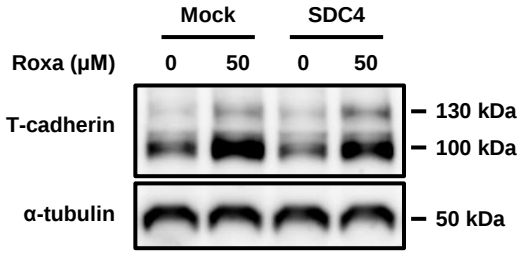
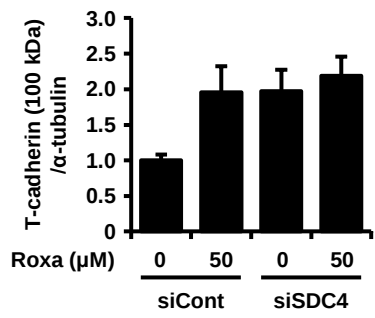
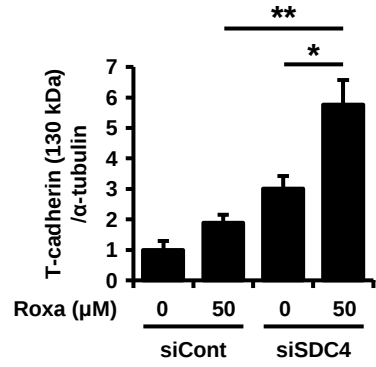
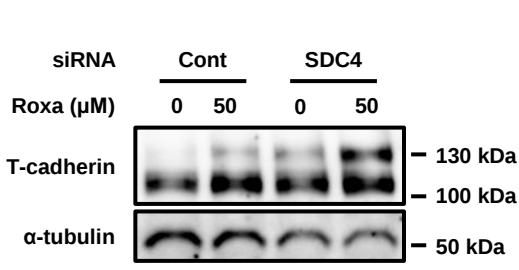
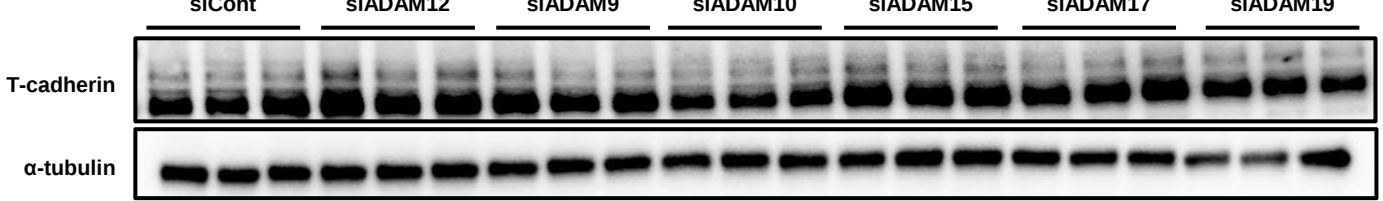
(A) HIF-1 consensus sequences are located upstream of the translation initiation region of both the human and murine T-cadherin genes. (B) and (C) Quantitative PCR analysis of human adipose tissue-derived mesenchymal stem cells (hAD-MSCs) (B) and human umbilical vein endothelial cells (HUVECs) (C) treated with roxadustat (Roxa) for 24 hrs at the indicated concentrations (n=3 for each group). versus control (untreated cells) (Dunnett's test). (D) Western blot analysis of total cell lysates. HUVECs were treated with roxadustat for 48 hrs at the indicated concentrations (n=3 for each group). (E) *Chop* mRNA expression levels in UV-F2 cells and HUVECs 24 hrs after roxadustat treatment at the indicated concentrations (n=3 for each group). Data are means $\pm$ SEMs. *p<0.05, **p<0.01, and ***p<0.001 versus control (untreated cells) (Dunnett's test). (F) Quantitative PCR analysis of UV-F2 cells cultured under 21% (normoxia) or 5% (hypoxia) oxygen for 24 hrs (n=3 for each group). (G) Western blot analysis of total cell lysates of UV-F2 cells cultured under 21% or 5% oxygen for 48 hrs (n=3 for each group). Data are means $\pm$ SEMs. ***p<0.001 (unpaired t test).

Supplementary Figure 2. Effects of syndecan-4 and ADAM families on T-cadherin protein expression.

(A) Quantitative PCR analysis of UV-F2 cells stably overexpressing T-cadherin (F2T cells) treated with roxadustat (Roxa) (50 μ M) for 24 hrs (n=3 for each group). Data are means $\pm$ SEMs. ***p<0.001 (unpaired t test). (B) Western blot analysis of total cell lysates. UV-F2 cells and those stably overexpressing syndecan-4 (*Sdc4*) UV-F2 cells were treated with or without roxadustat (50 μ M) for 48 hrs (n=3 for each group). (C) Western blot analysis of total cell lysates. UV-F2 cells

transfected control or *Sdc4* siRNA were treated with or without roxadustat (50 μ M) for 48 hrs (n=3 for each group). Data are means $\pm$ SEMs. *p<0.05 and **p<0.01 (Tukey-Kramer test). (D) Western blot analysis of total cell lysates of UV-F2 cells transfected control or *Adam* 2, 9, 10, 15, 17, or 19 siRNA.



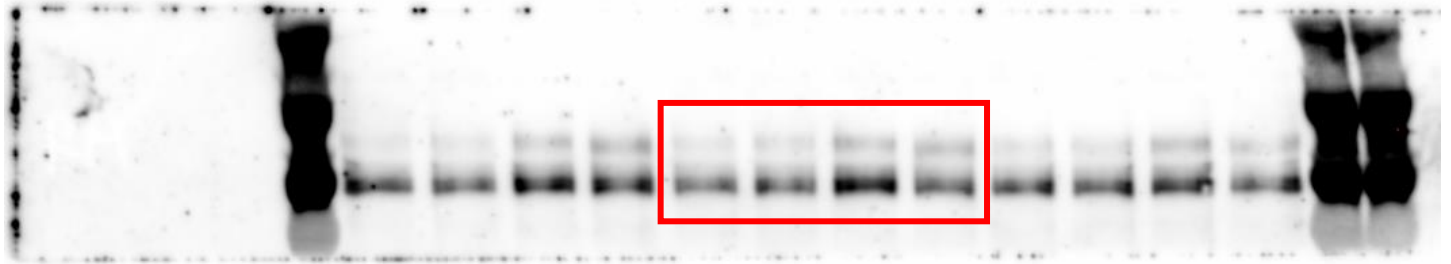
A**B****C****D**

Supplementary Figure 2

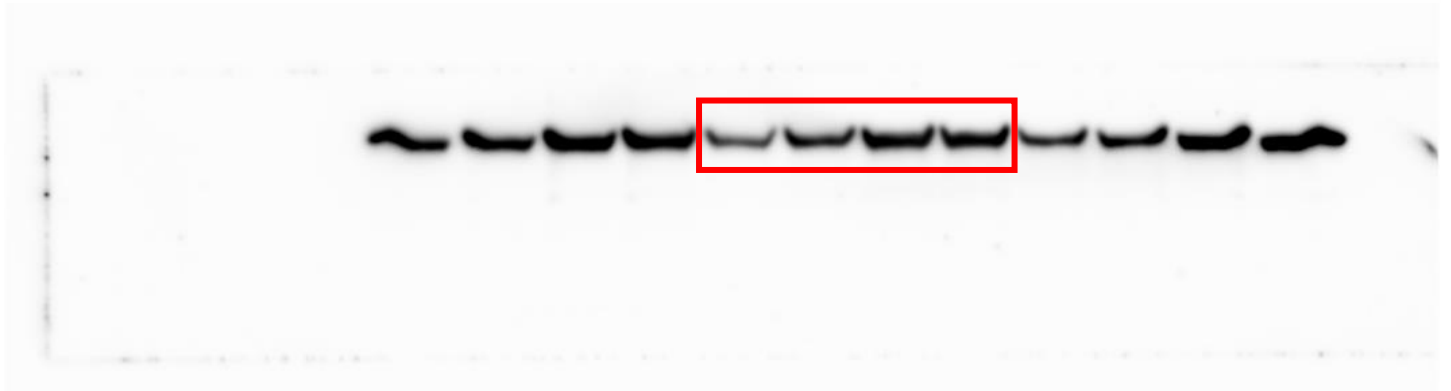
**Presentation of full-length gels and blots in Figures
(Figures 1, 2, 3, and 4 and Supplementary Figures 1 and 2)**

Figure 1B

T-cadherin



GAPDH



α -tubulin

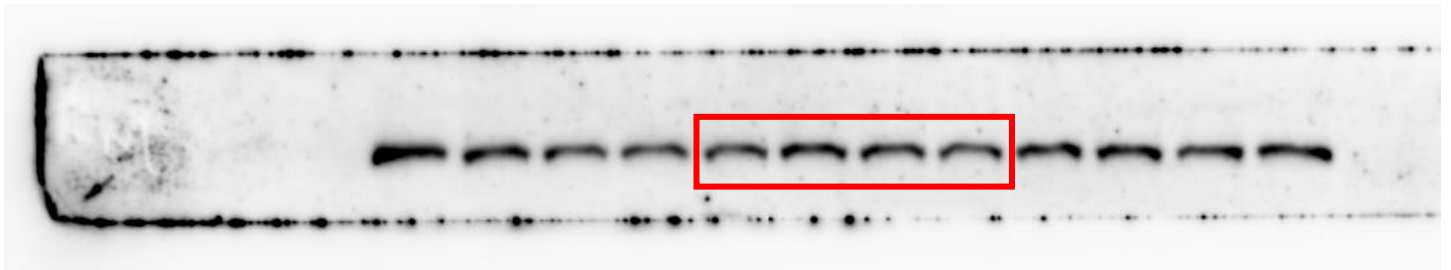
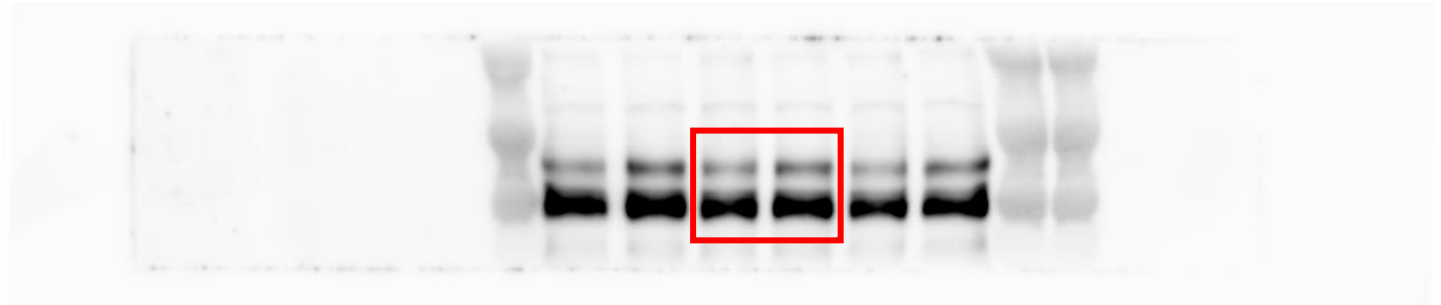
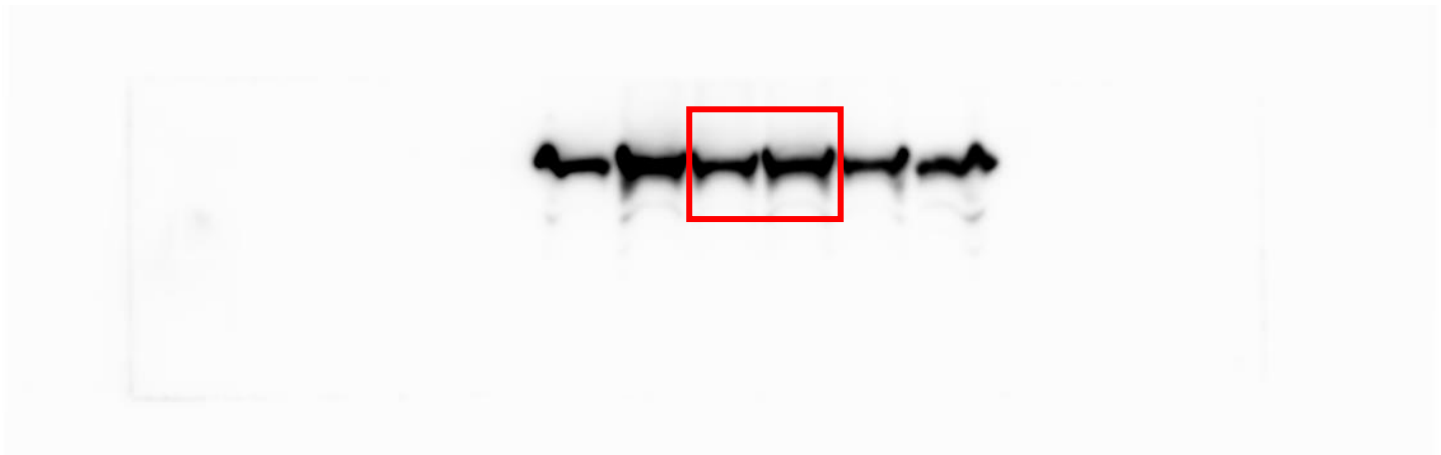


Figure 1C

T-cadherin



GAPDH

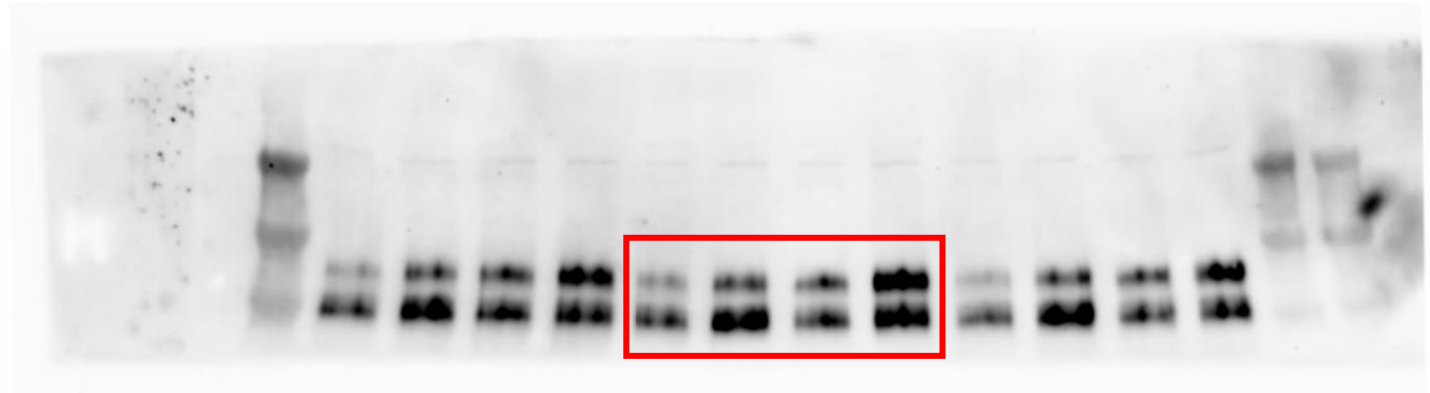


α -tubulin

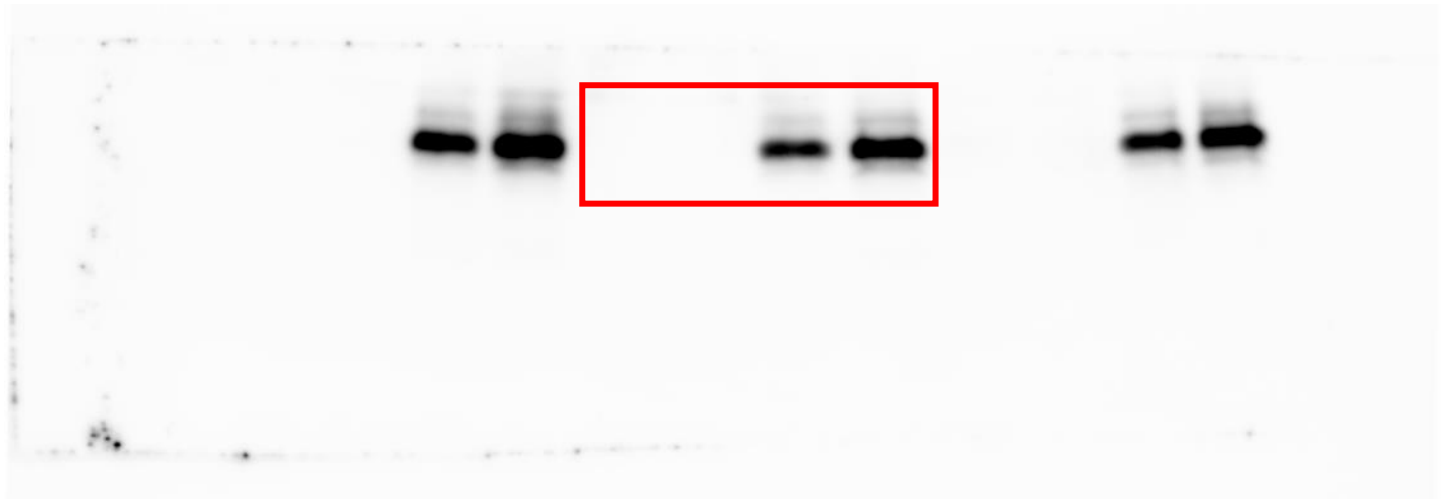


Figure 2A

T-cadherin



Adiponectin



α -tubulin

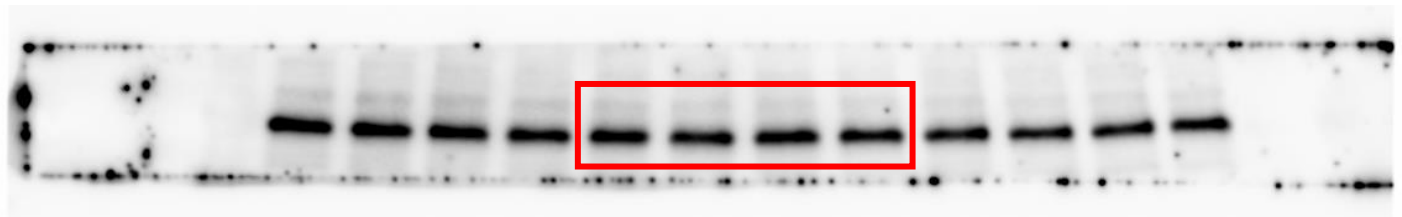
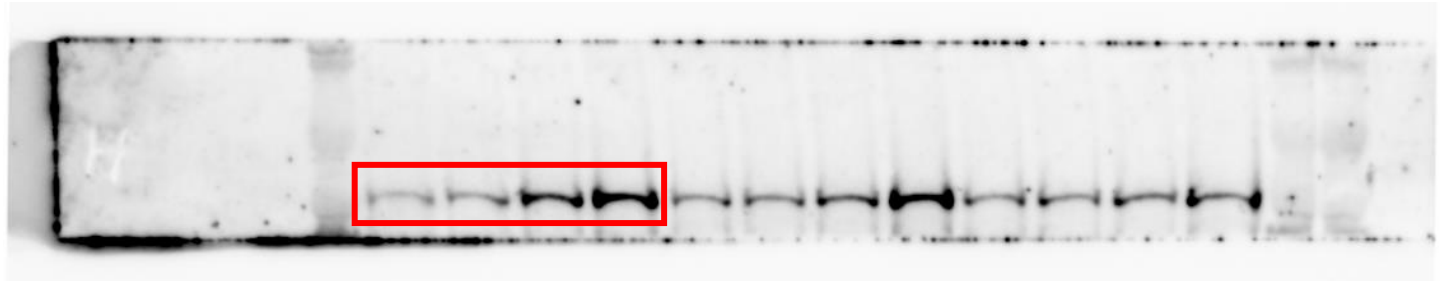
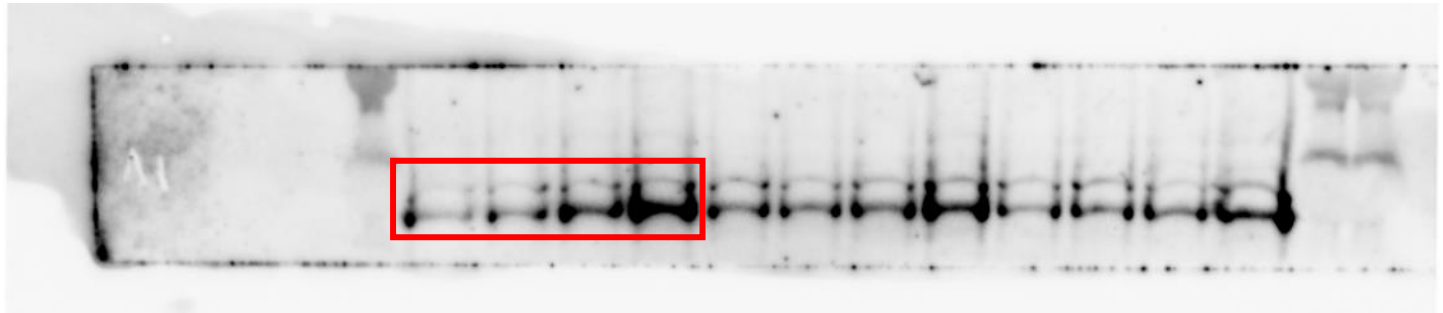


Figure 2B

Alix



TSG101



Syntenin

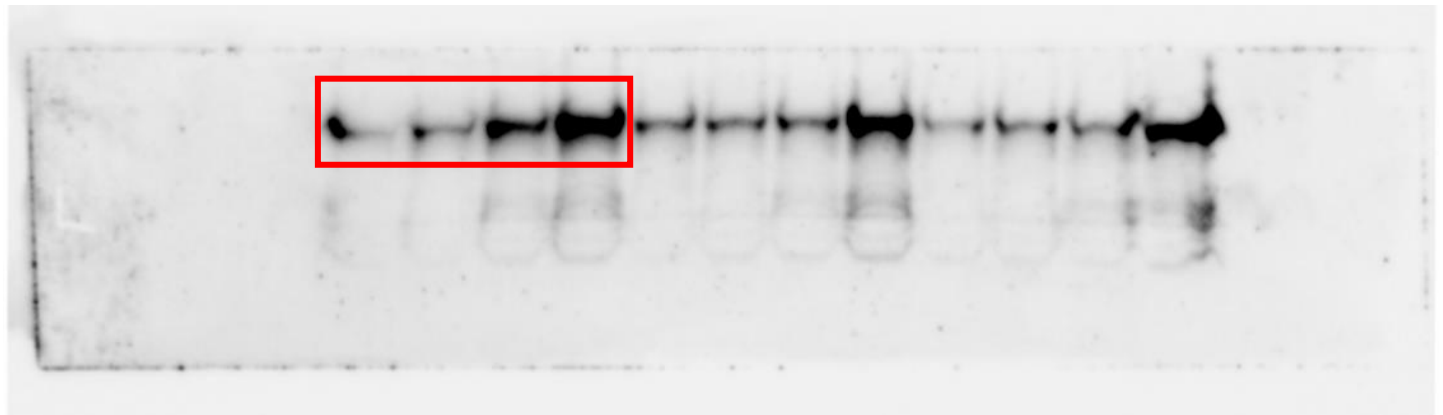
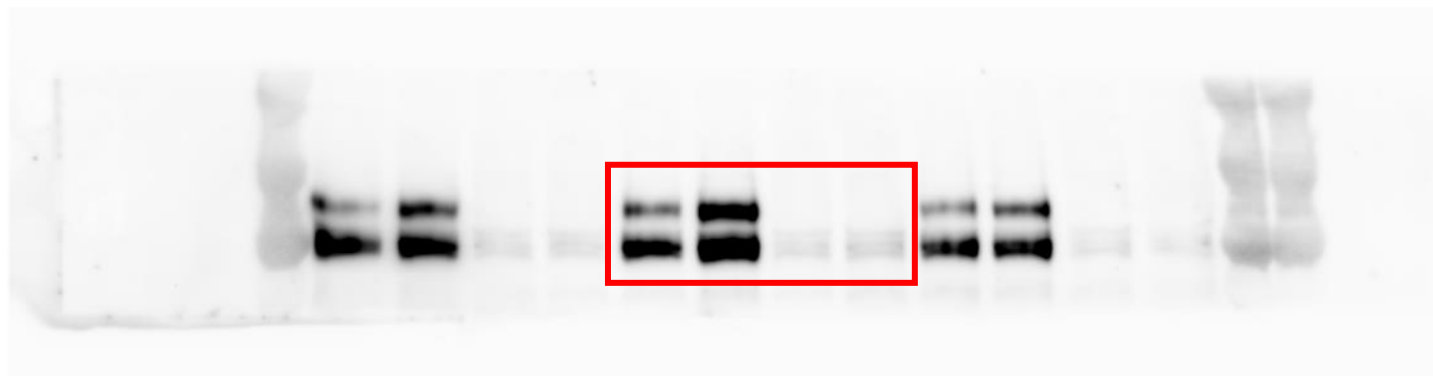
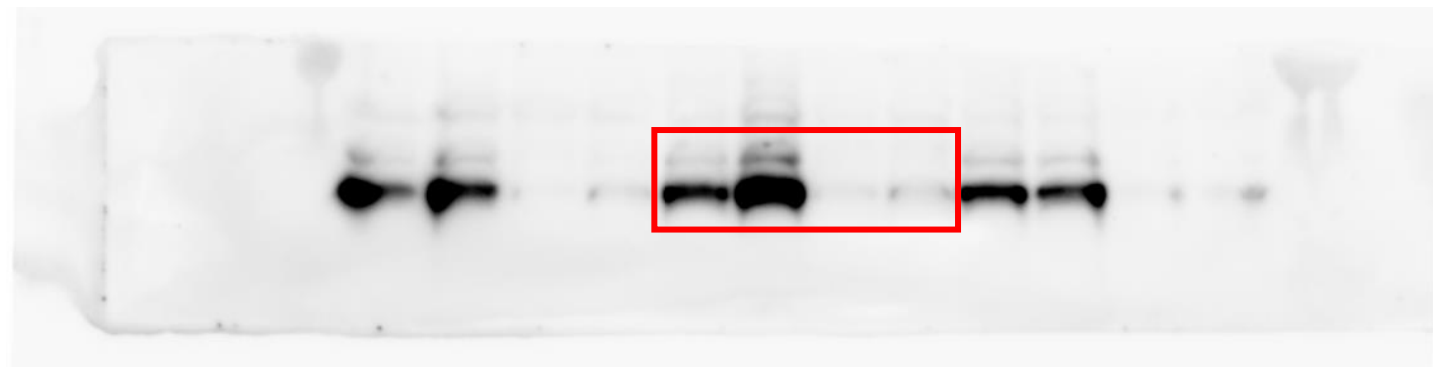


Figure 2C

T-cadherin



Adiponectin



α -tubulin

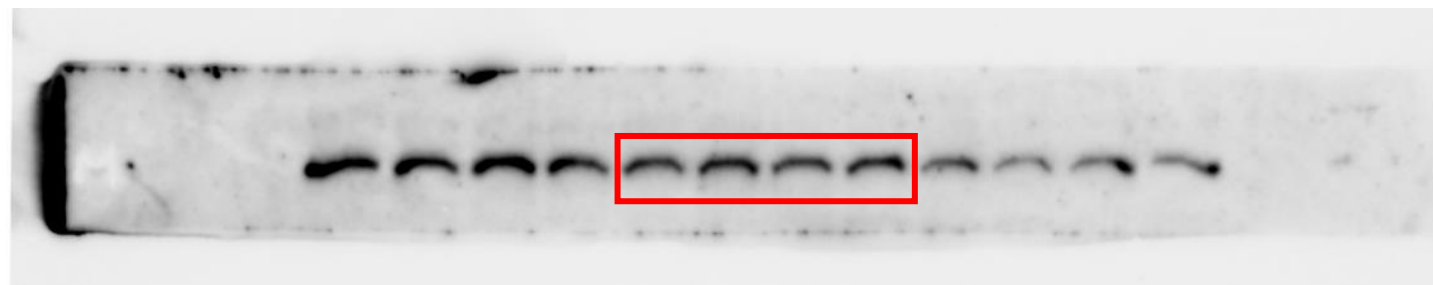
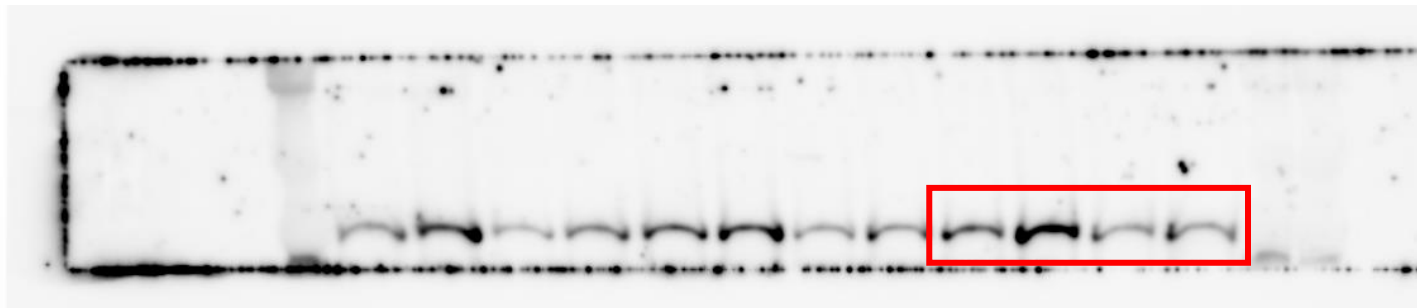
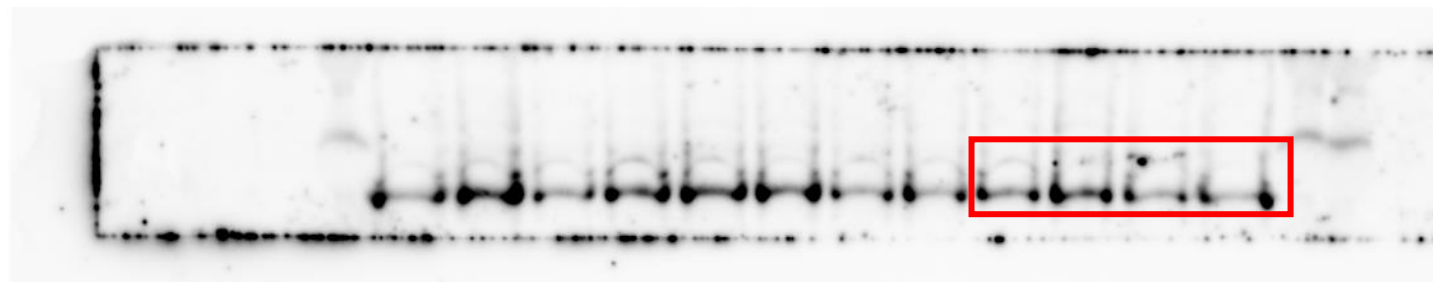


Figure 2D

Alix



TSG101



Syntenin

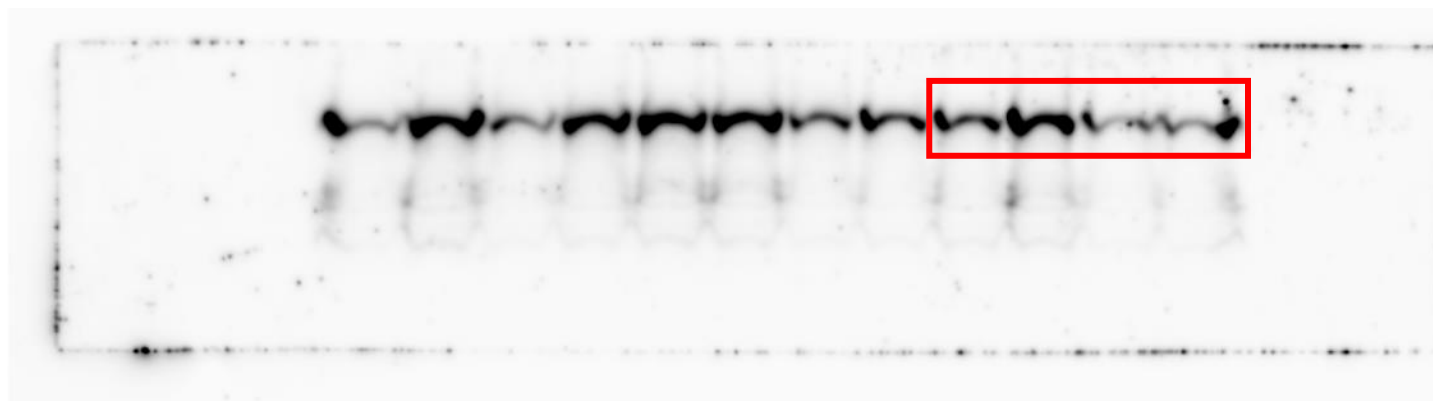
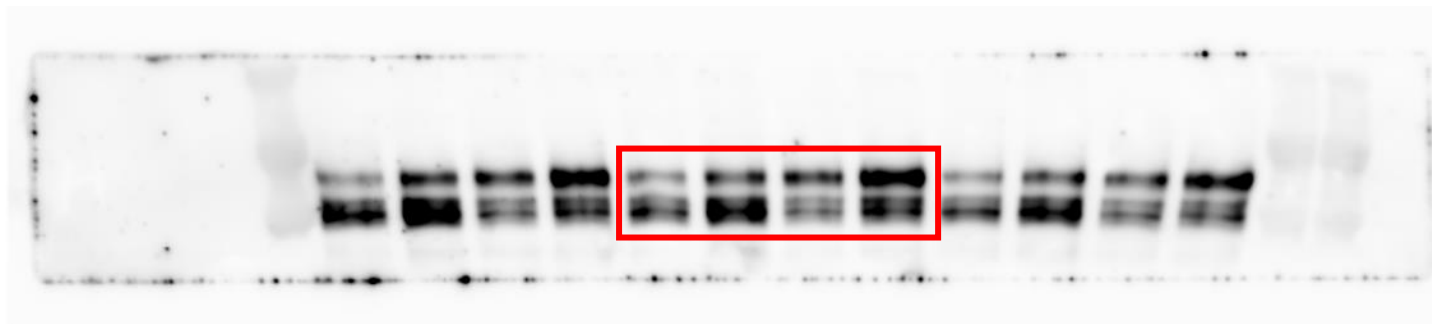
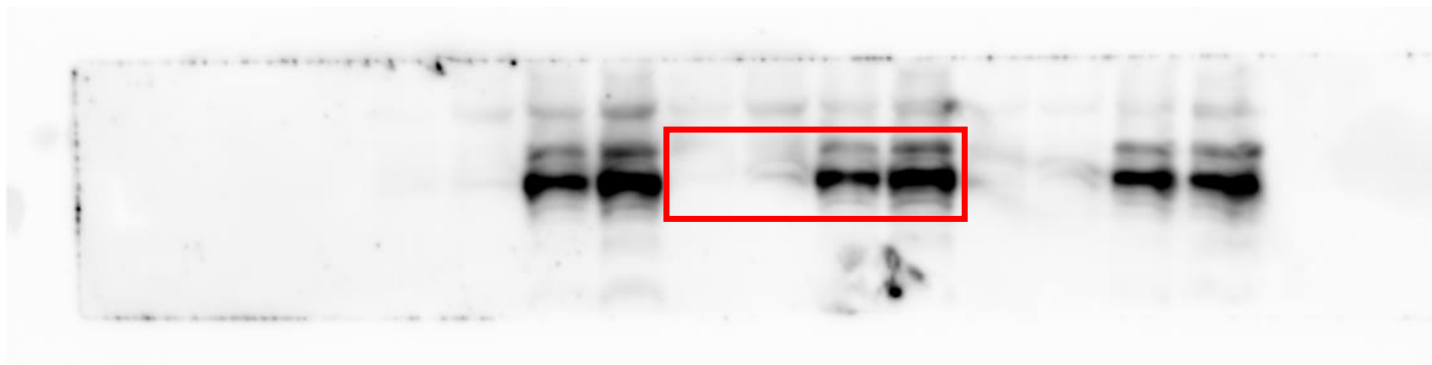


Figure 3B

T-cadherin



Adiponectin



α -tubulin

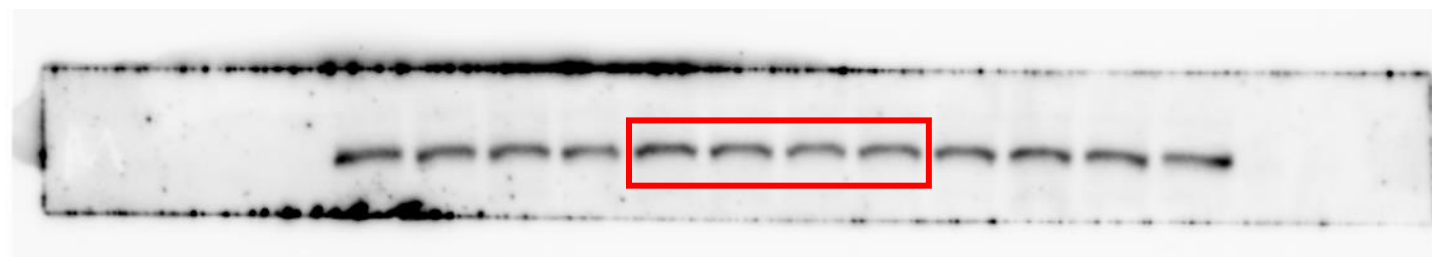
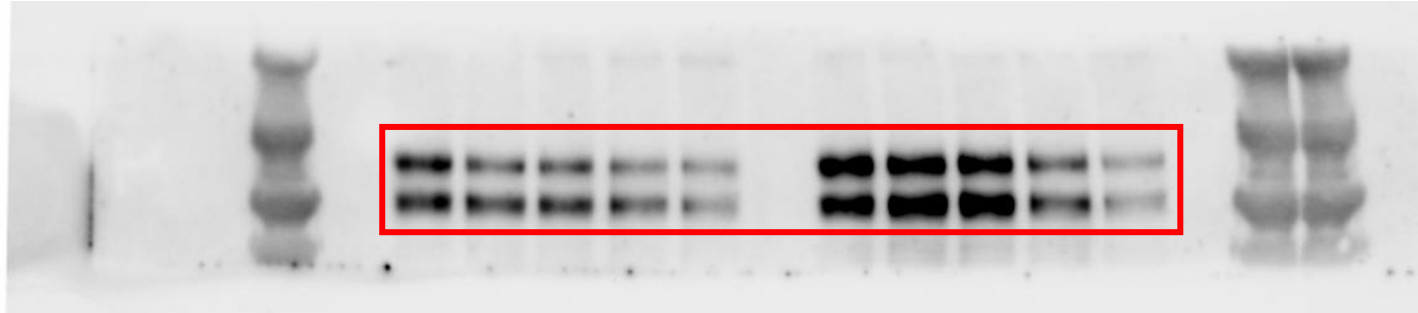


Figure 3D

**T-cadherin
(Western blotting)**



**SYPRO Ruby
staining**

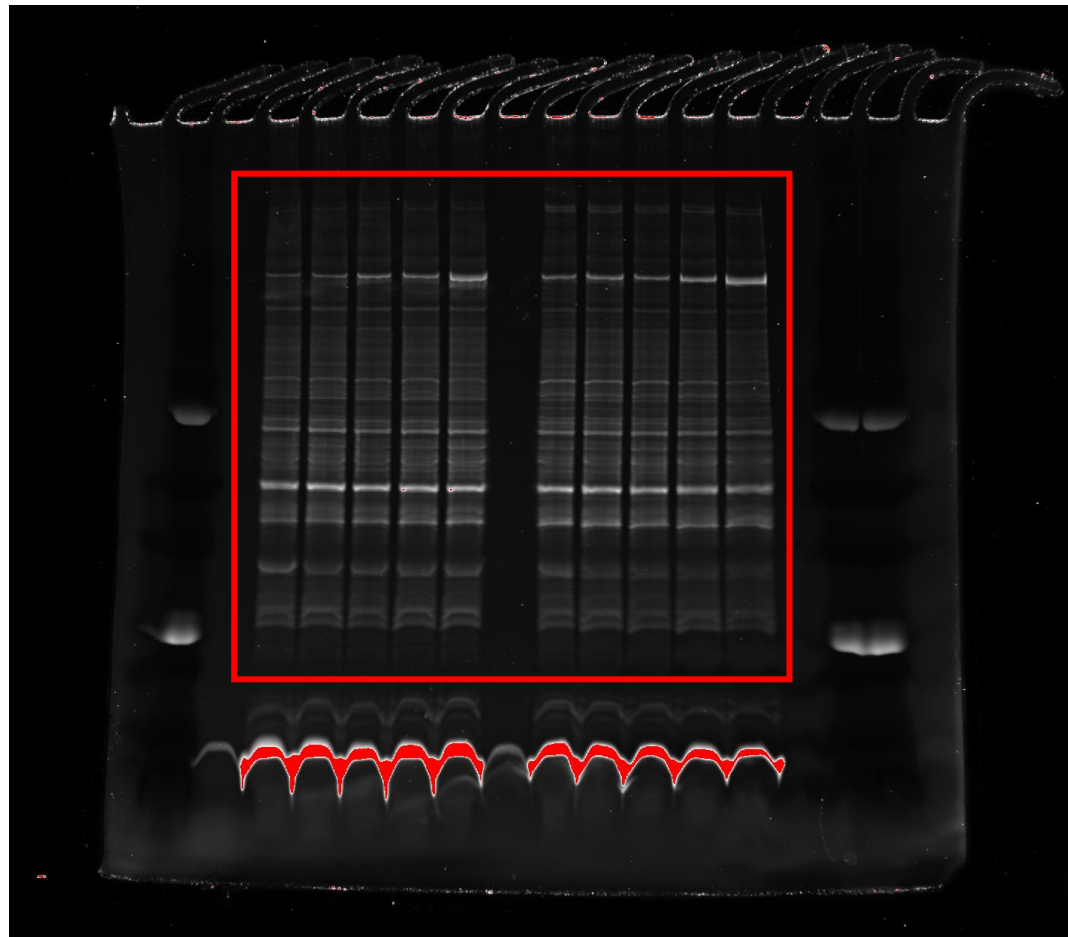
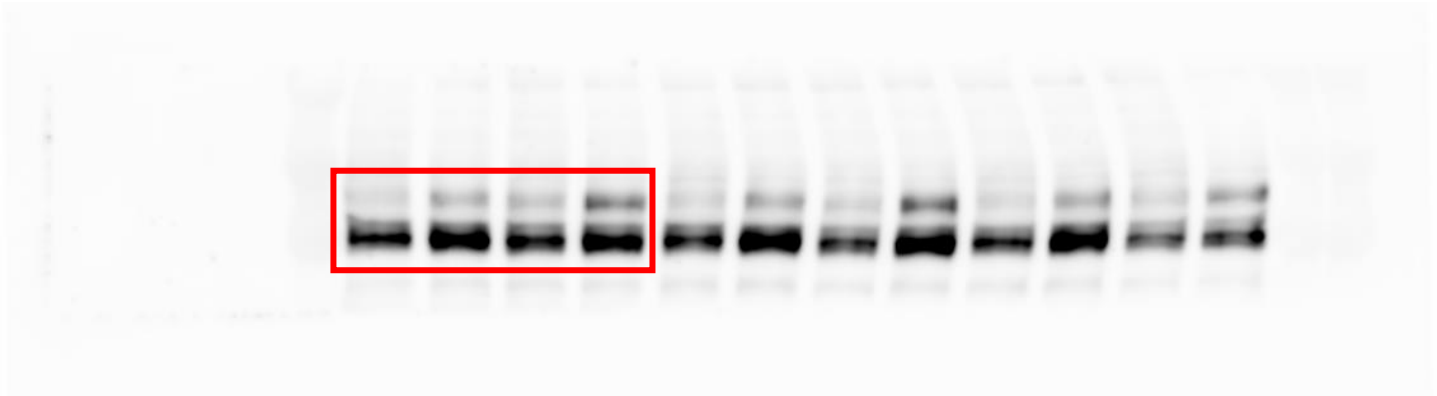


Figure 4G

T-cadherin



α -tubulin

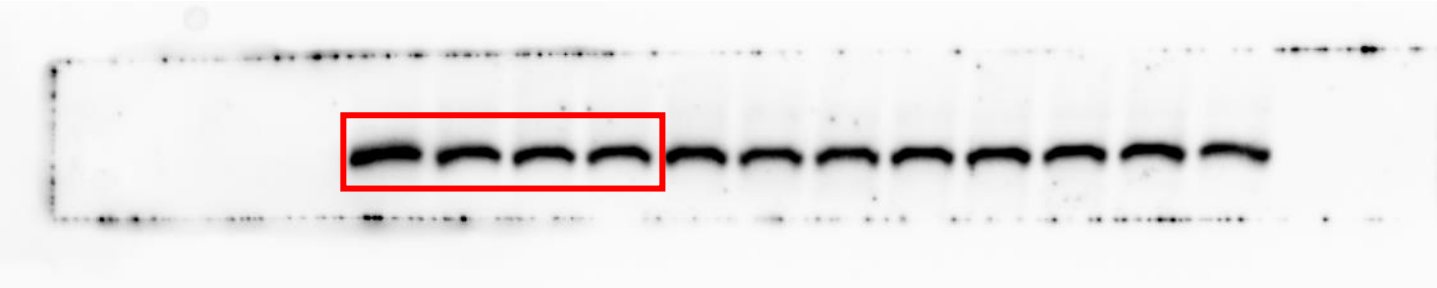
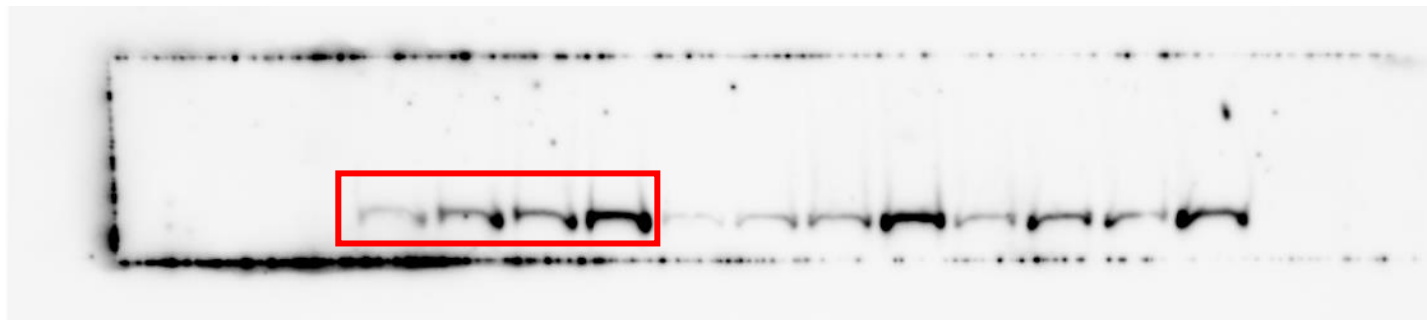
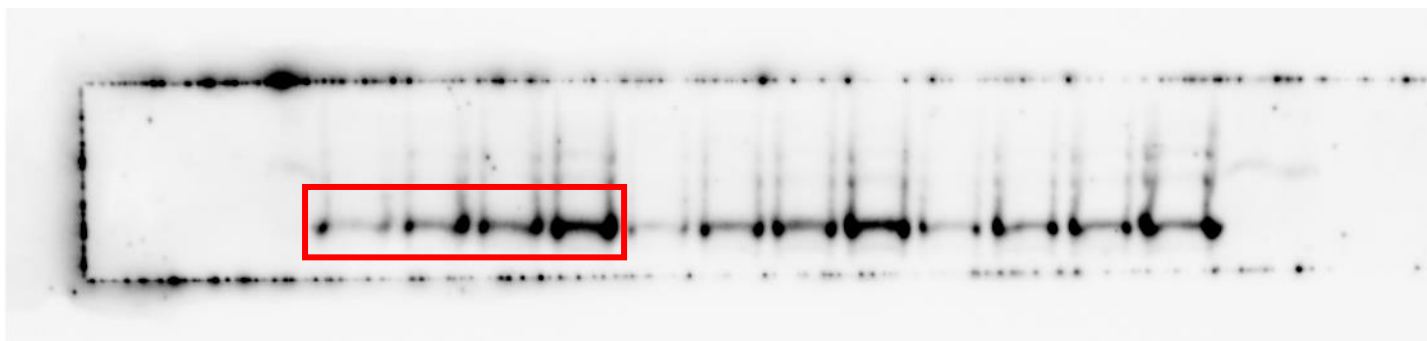


Figure 4H

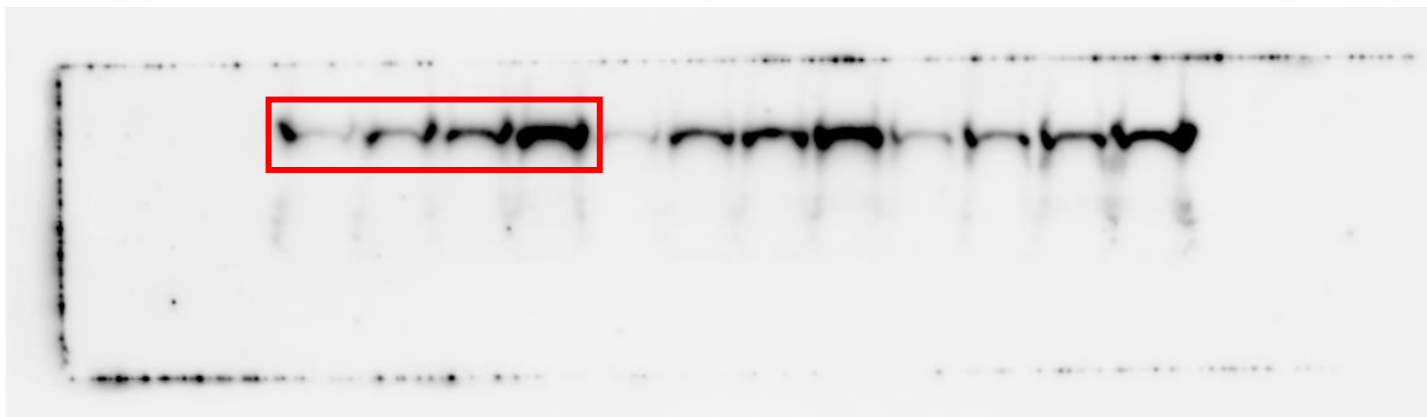
Alix



TSG101

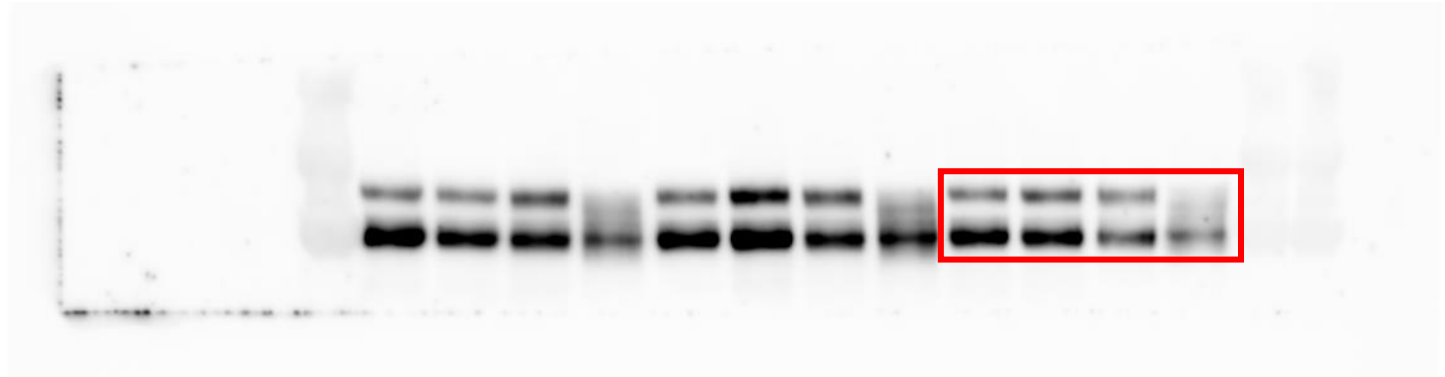


Syntenin

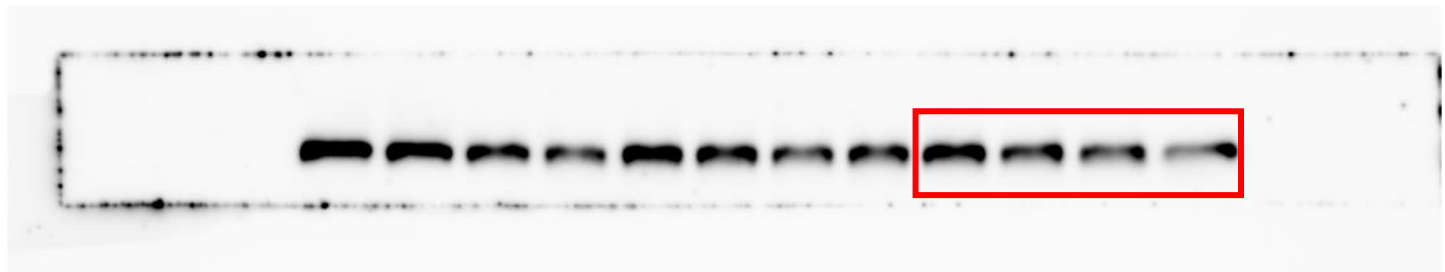


Supplementary Figure 1D

T-cadherin

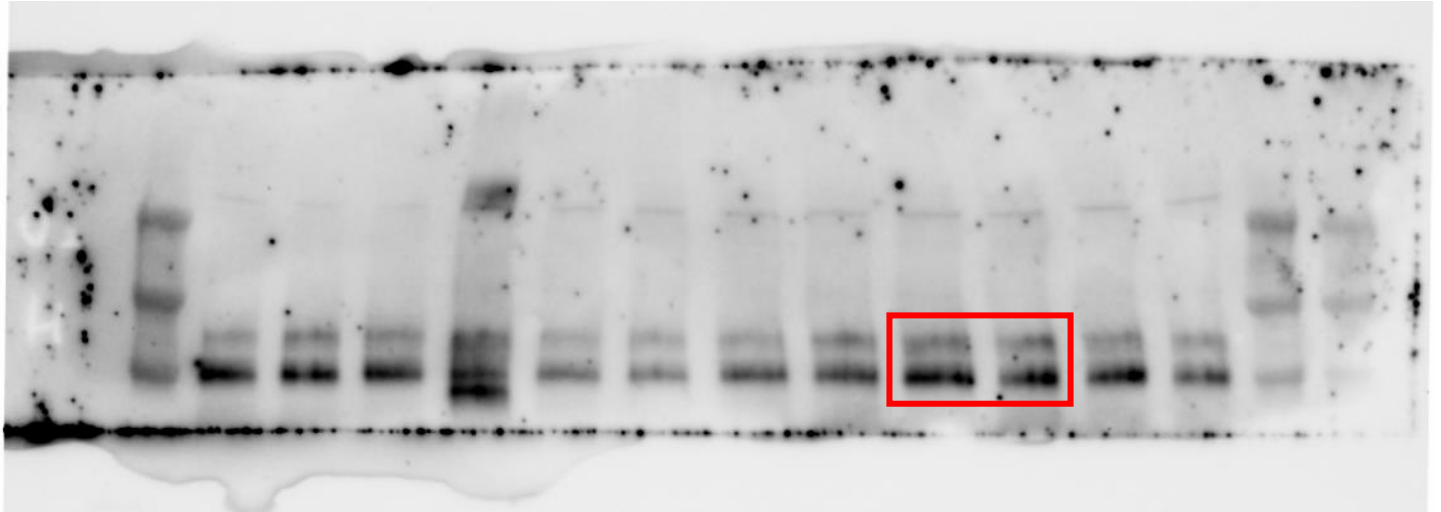


α -tubulin

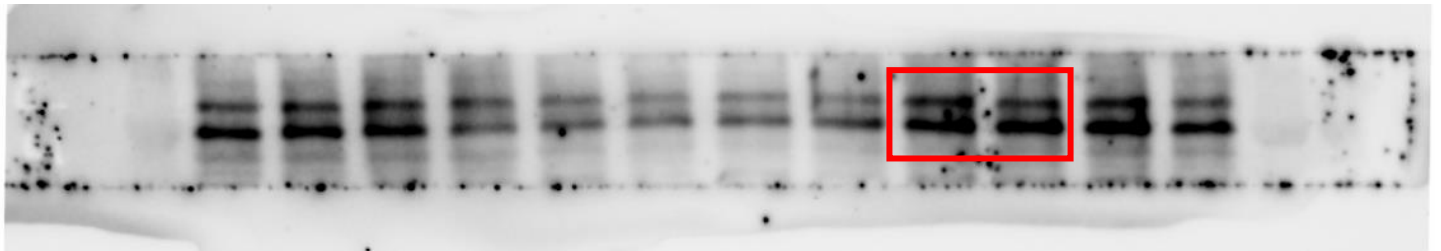


Supplementary Figure 1G

T-cadherin

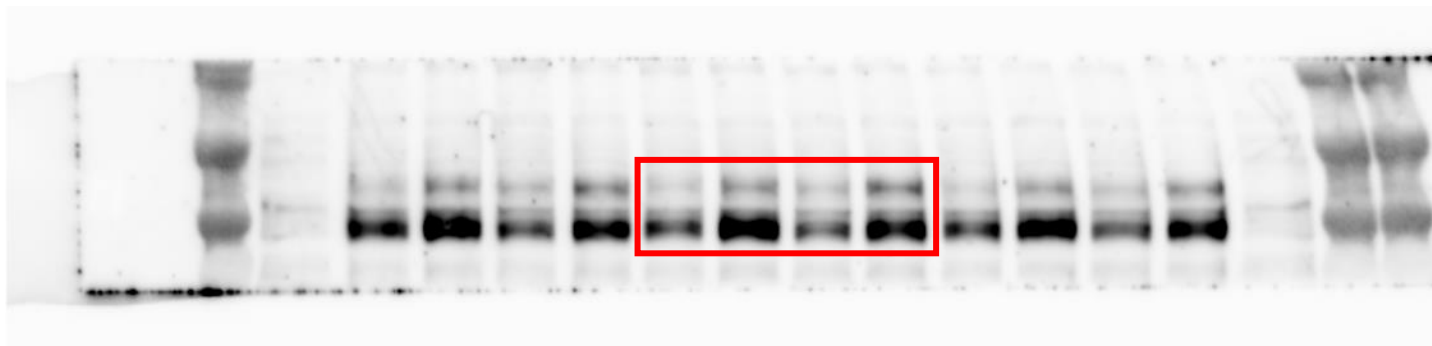


α -tubulin

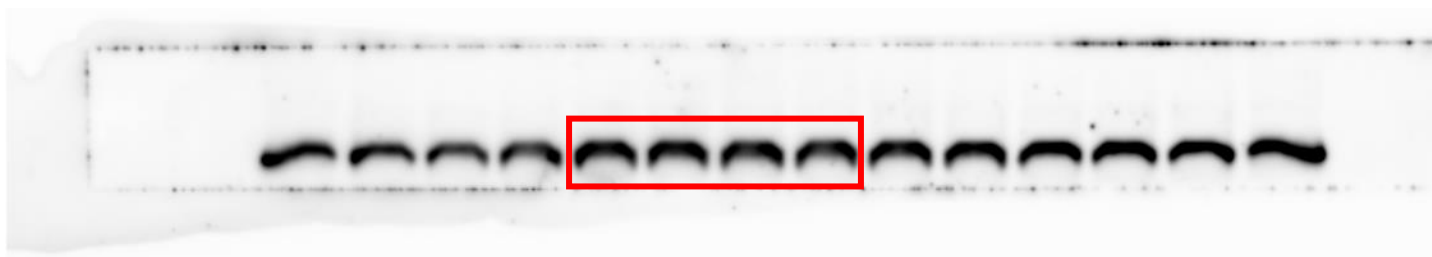


Supplementary Figure 2B

T-cadherin

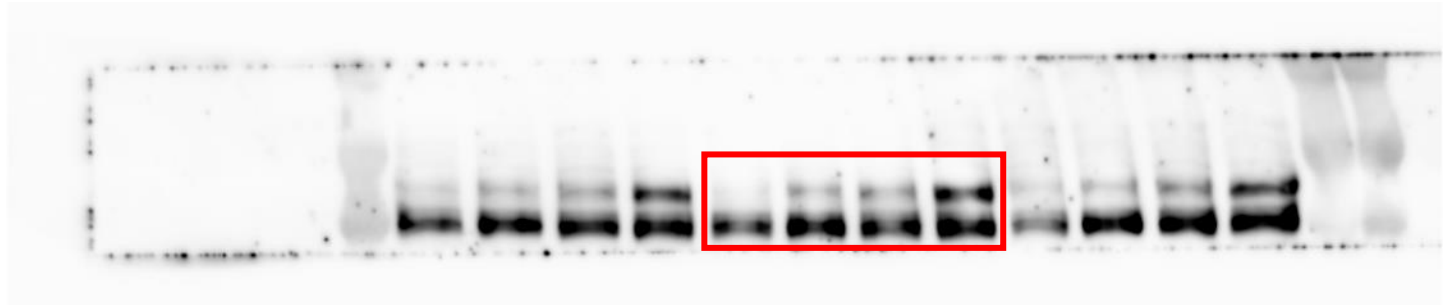


α -tubulin

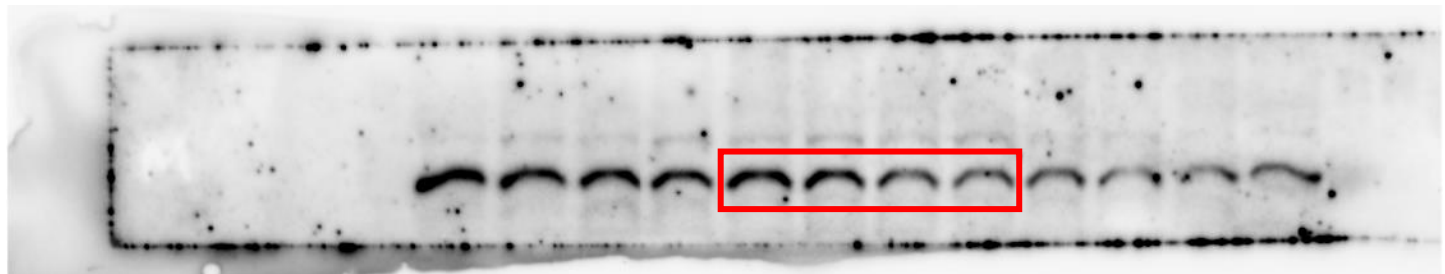


Supplementary Figure 2C

T-cadherin

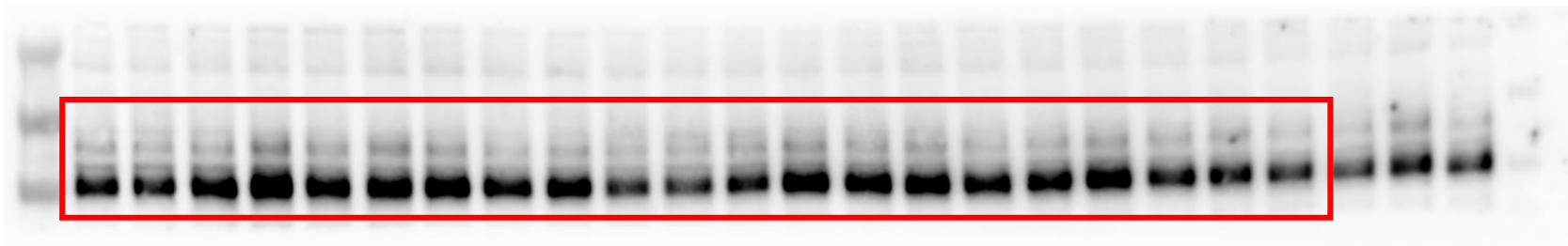


α -tubulin



Supplementary Figure 2D

T-cadherin



α -tubulin

