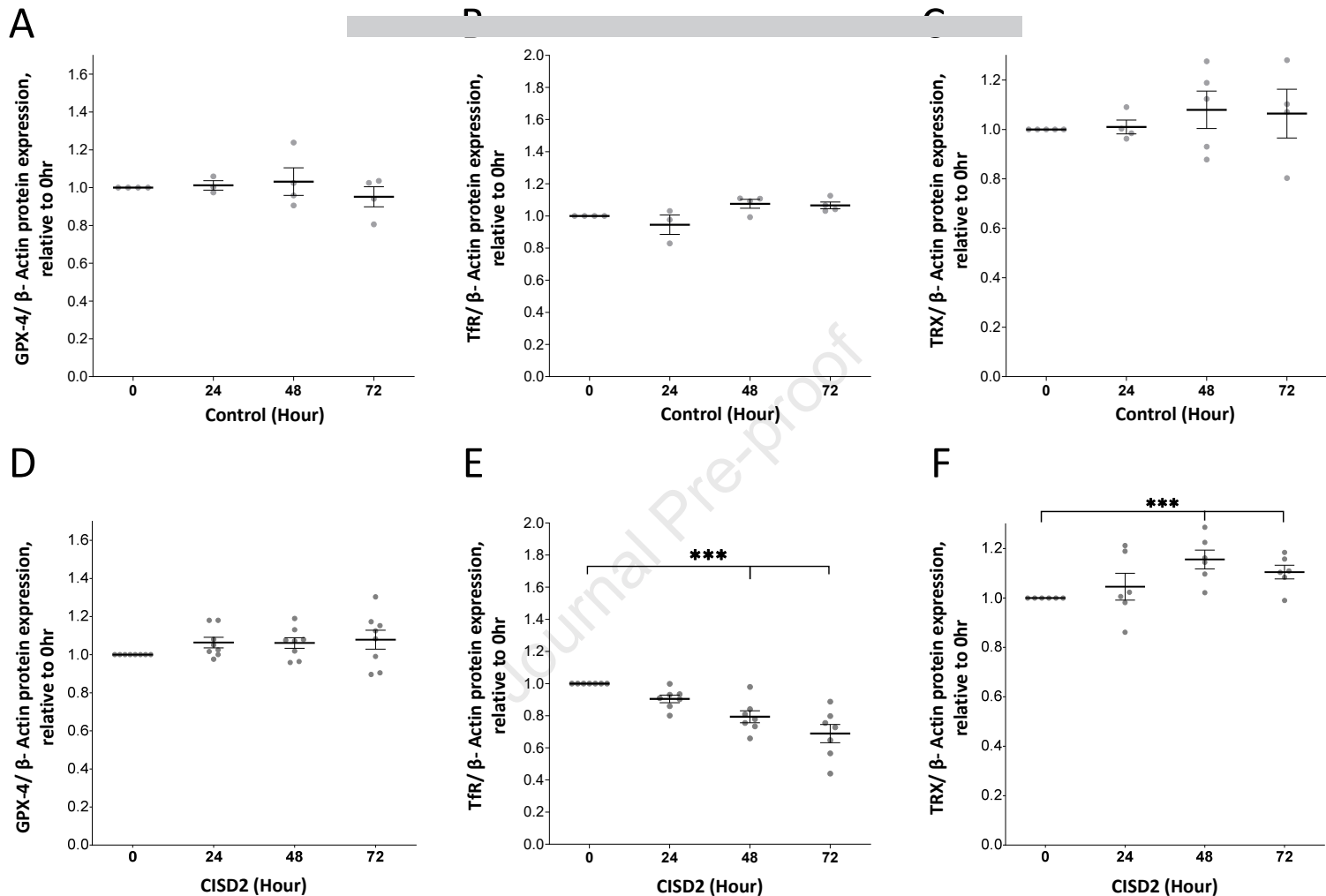
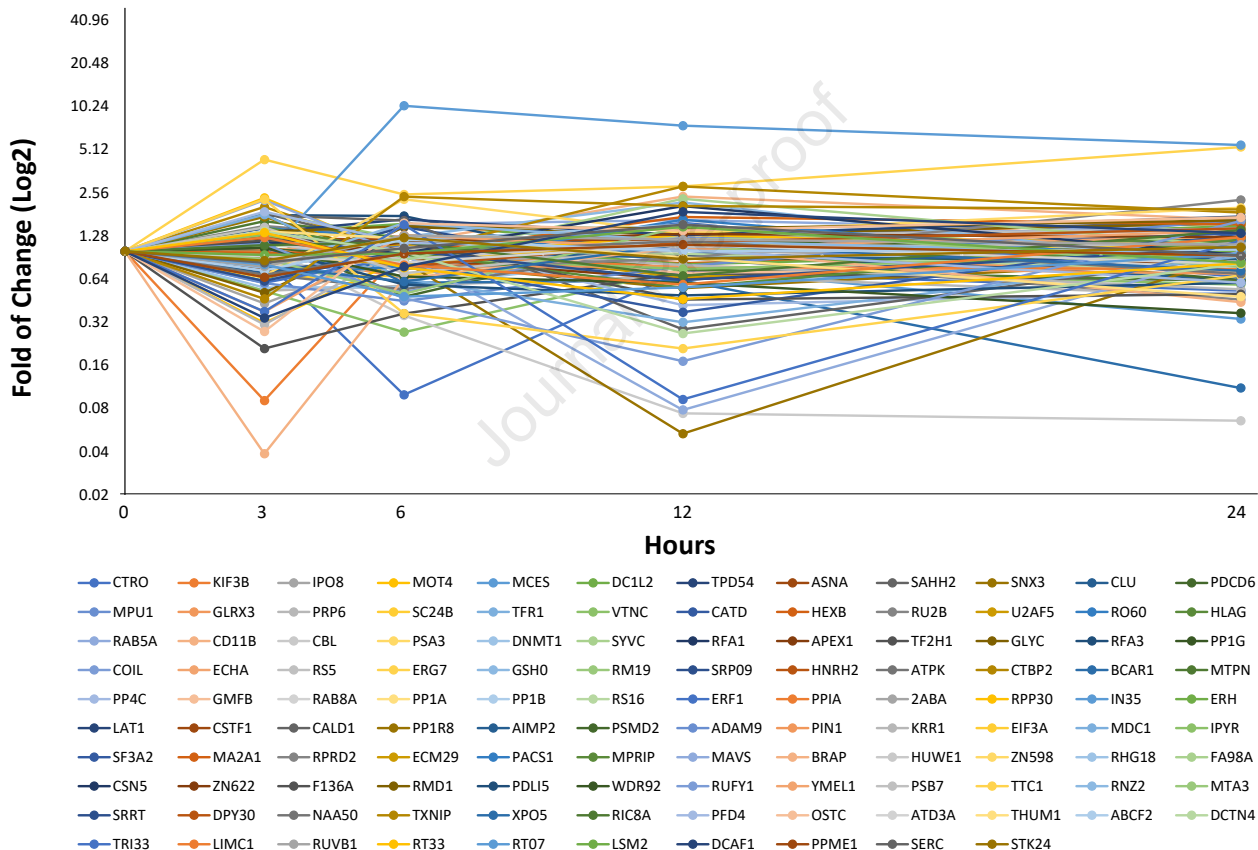


Supplementary Figure S1. Protein blot analysis of CISD2 expression in Control, CISD2 and H114C cells without Doxycycline (DOX; 0 μ g/ml) application. Protein blots (Top) and β -actin-normalized expression graph (Bottom) showing CISD2 protein levels in all cell lines. Results are shown as mean \pm SE of 5 biological control averages, each conducted with 3 technical repeats N=5; one sample t-test.



Supplementary Figure S2. Detection of ferroptosis markers in Control and CISD2 cells following Doxycycline (DOX; 2 μ g/ml) application. **A-C.** Expression of glutathione peroxidase 4 (GPX4; A), transferrin receptor (TfR; B), and mitochondrial thioredoxin 2 (TRX; C) in Control cells following DOX (2 μ g/ml) application for 0, 24, 48, and 72 hours. **D-F.** Expression of GPX4 (D), TfR (E), and TRX (F) in CISD2 cells following DOX (2 μ g/ml) application for 0, 24, 48, and 72 hours. Results are shown as mean \pm SE of 5 or 7 biological control averages, each conducted with 3 technical repeats. *** $P < 0.001$; N=5 (A), N=7 (B); one sample t-test.

118 Unique proteins expressed in H114C



Supplementary Figure S3. Expression pattern of the 118 unique proteins expressed in H114C (Figure 5A, 5B). All proteins shown were found to be significantly expressed ($P < 0.05$; $N = 3$) compared to time 0 hour by a one-way Welch ANOVA.