Supplementary information

Proximity-dependent biotin identification (BioID) reveals a dynamic LSD1-CoREST interactome during embryonic stem cell differentiation

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List of supplementary data:

**Supplementary Figure 1** – Expression of BirA*-tagged CoREST complex members permits biotinylation of proximal proteins.

**Supplemental Figure 2** – Western blot for the indicated proteins using whole cell protein extracts isolated during sampling for BioID in ES cells.

**Supplementary Table 1** – 293T BioID dataset

**Supplementary Table 2** – ESC LSD1 BioID dataset

**Supplementary Table 3** – 293T and ESC overlapping targets

**Supplementary Table 4** – Antibodies used in this study
**Supplementary Figure 1.** Expression of BirA*-tagged CoREST complex members permits biotinylation of proximal proteins. **A**, western blots for the indicated proteins using either anti-FLAG, or antibodies specific to the protein of interest, as indicated. **B**, Biotinylated proteins, with and without the addition of exogenous biotin, detected using streptavidin conjugated to an infra-red dye. **C**, Whole cell protein extracts were made from pellets sonicated for the indicated times, with biotinylated proteins detected using streptavidin conjugated to an infra-red dye.
**Supplemental Figure 2.** Western blot for the indicated proteins using whole cell protein extracts isolated during sampling for BioID in ES cells. The time-course of retinoic acid (RA) treatment is indicated. Proteins were extracted from either control (Lsd1<sup>loxp</sup>) and Lsd1 knockout (Lsd1<sup>-/-</sup>) ES cells.