

## Description of Additional Supplementary Files

### **File Name: Supplementary Movie 1**

**Description:** This video abstract describes the role of the canonical PRC1 Polycomb complex in maintaining silencing of Hox genes. It then introduces the question that was addressed in the present work, namely whether chromatin compaction, which is detected at inactive Hox genes reflects a direct function of PRC1 or whether it is the consequence of PRC1-dependent transcriptional inhibition. The approach used in this work is then described, along with the main observations. Finally, the video presents the main conclusion from the present work, namely that PRC1-dependent chromatin compaction precedes transcriptional effects.