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## Description of Additional Supplementary Files

### Supplementary Datasets

- Supplementary Data 1.** Sequences of sgRNA and homology arm for SOX9 and KRT20 knock-in
- Supplementary Data 2.** List of 78 epigenetic regulators from 5 families and their associated drugs
- Supplementary Data 3.** List of 76 sgRNAs and 154 shRNAs for control libraries and 542 sgRNAs for the epigenetic library
- Supplementary Data 4.** List of sequences used in the validation
- Supplementary Data 5.** List of antibodies used for the western blot