

## **Description of Additional Supplementary Files**

**Supplementary Data 1** - NRPE1 and NRPE1-SPT6L overlapped peaks

**Supplementary Data 2** – The six genomic states defined by HMM

**Supplementary Data 3** – Genomic states overlapped genes

**Supplementary Data 4** – RNA-seq data with expression changed genes and TEs

**Supplementary Data 5** - Pol V peaks clustered by slicing preference of U-10