|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Single state Enrichment (CI)** | **Joint model**  **Enrichment (CI)** | **LRT statistic**  **(Chi-square)** | **LRT**  **P-value** |
| **ATAC-seq**  **open chromatin** | 3.4 (2.6 to 4) | 2.6 (2.0 to 3.3) | 31.0 | 2.6E-08 |
| **LMR** | 3.2 (2.3 to 3.9) | 1.1 (0.1 to 1.8) | 4.2 | 0.04 |
| **ChIP-only**  **Gene Enhancer** | 2.7 (1.6 to 3.5) | 2.8 (1.7 to 3.6) | 14.3 | 1.6E-04 |
| **ChIP-only**  **Strong Enhancer** | 2.9 (2.1 to 3.5) | 1.8 (0.9 to 2.4) | 11.1 | 8.8E-04 |
| **ChIP-only**  **Weak Enhancer** | 1.3 (0.2 to 2.1) | 1.7 (0.8 to 2.4) | 8.9 | 0.003 |
| **CDS** | 2.6 (1.2 to 3.5) | 2.1 (1.0 to 3.0) | 10.3 | 0.001 |