Suppl. Table 4: Counts of distinct interaction classes in the HiChIP significant interaction set.

1. 24DAP\_H3K4me3\_Q0.1 with active promoter in at least one anchor
2. 24DAP\_H3K27me3\_Q0.1 with a silent promoter in at least one anchor

|  |  |  |  |
| --- | --- | --- | --- |
| **category** | **count** | **category** | **count** |
| TEs-TEs | 124 | Intron-Intron | 45 |
| TEs-Active\_promoter | 902 | Intron-Silent\_promoter | 59 |
| TEs-Active\_terminator | 112 | Intron-Silent\_terminator | 21 |
| TEs-E7 | 337 | Intron-E4 | 68 |
| TEs-E4 | 22 | Intron-E7 | 77 |
| TEs-Intron | 62 | Intron-Active\_promoter | 41 |
| TEs-Silent\_promoter | 56 | Intron-TEs | 30 |
| TEs-Silent\_terminator | 9 | Intron-Active\_terminator | 17 |
| TEs-distal | 4 | Intron-distal | 0 |
| Active\_promoter-Active\_promoter | 2578 | Silent\_promoter-Silent\_promoter | 195 |
| Active\_promoter-Active\_terminator | 1104 | Silent\_promoter-Silent\_terminator | 117 |
| Active\_promoter-E7 | 2255 | Silent\_promoter-E4 | 326 |
| Active\_promoter-E4 | 116 | Silent\_promoter-E7 | 170 |
| Active\_promoter-Intron | 646 | Silent\_promoter-Active\_promoter | 108 |
| Active\_promoter-Silent\_promoter | 424 | Silent\_promoter-TEs | 100 |
| Active\_promoter-Silent\_terminator | 72 | Silent\_promoter-Active\_terminator | 33 |
| Active\_promoter-distal | 26 | Silent\_promoter-distal | 0 |
| Active\_terminator-Active\_terminator | 42 | Silent\_terminator-Silent\_terminator | 3 |
| Active\_terminator-E7 | 274 | Silent\_terminator-E4 | 69 |
| Active\_terminator-E4 | 9 | Silent\_terminator-E7 | 28 |
| Active\_terminator-Intron | 47 | Silent\_terminator-Active\_promoter | 12 |
| Active\_terminator-Silent\_promoter | 45 | Silent\_terminator-TEs | 13 |
| Active\_terminator-Silent\_terminator | 6 | Silent\_terminator-Active\_terminator | 5 |
| Active\_terminator-distal | 3 | Silent\_terminator-distal | 0 |
| E7-E7 | 236 | E4-E4 | 571 |
| E7-E4 | 47 | E4-E7 | 260 |
| E7-Intron | 135 | E4-Active\_promoter | 115 |
| E7-Silent\_promoter | 89 | E4-TEs | 184 |
| E7-Silent\_terminator | 16 | E4-Active\_terminator | 33 |
| E7-distal | 7 | E4-distal | 3 |
| E4-E4 | 32 | E7-E7 | 219 |
| E4-Intron | 10 | E7-Active\_promoter | 221 |
| E4-Silent\_promoter | 37 | E7-TEs | 193 |
| E4-Silent\_terminator | 4 | E7-Active\_terminator | 78 |
| E4-distal | 0 | E7-distal | 4 |
| Intron-Intron | 32 | Active\_promoter-Active\_promoter | 68 |
| Intron-Silent\_promoter | 25 | Active\_promoter-TEs | 75 |
| Intron-Silent\_terminator | 1 | Active\_promoter-Active\_terminator | 68 |
| Intron-distal | 1 | Active\_promoter-distal | 1 |
| Silent\_promoter-Silent\_promoter | 36 | TEs-TEs | 86 |
| Silent\_promoter-Silent\_terminator | 7 | TEs-Active\_terminator | 23 |
| Silent\_promoter-distal | 0 | TEs-distal | 3 |
| Silent\_terminator-Silent\_terminator | 0 | Active\_terminator-Active\_terminator | 8 |
| Silent\_terminator-distal | 1 | Active\_terminator-distal | 1 |
| distal-distal | 0 | distal-distal | 0 |