**Table 1.**: Peak numbers in barley embryo and leaf ChIP-seq and ATAC-seq datasets.

|  |  |
| --- | --- |
| **ATAC-seq** | **8DAP** |
| 53303 | Morex8DAP\_ATACseq\_1 |
| 55758 | Morex8DAP\_ATACseq\_2 |
| 42899 | Morex8DAP\_ATACseq\_intersect |
| 66139 | Morex8DAP\_ATACseq\_merged |
|  | **24DAP** |
| 145943 | Morex24DAP\_ATACseq\_1 |
| 127166 | Morex24DAP\_ATACseq\_2 |
| 93441 | Morex24DAP\_ATACseq\_intersect |
|  | **4DAG** |
| 54098 | Morex4DAG\_ATACseq\_1 |
| 29863 | Morex4DAG\_ATACseq\_2 |
| 10627 | Morex4DAG\_ATACseq\_intersect |
| 73333 | Morex4DAG\_ATACseq\_merged |
|  | **Leaf** |
| 64153 | MorexLeaf\_ATACseq\_pooled |

|  |  |
| --- | --- |
| **ChIP-seq** | **H3K9ac** |
| 22130 | Morex8DAP\_H3K9ac\_1 |
| 26393 | Morex8DAP\_H3K9ac\_2 |
| 15911 | Morex8DAP\_H3K9ac\_intersect |
| 32610 | Morex8DAP\_H3K9ac\_merged |
|  |  |
| 32119 | Morex24DAG\_H3K9ac\_1 |
| 66104 | Morex24DAG\_H3K9ac\_2 |
| 30159 | Morex24DAG\_H3K9ac\_intersect |
|  |  |
| 61885 | Morex4DAG\_H3K9ac\_1 |
| 30178 | Morex4DAG\_H3K9ac\_2 |
| 25994 | Morex4DAG\_H3K9ac\_intersect |
| 46140 | Morex4DAG\_H3K9ac\_merged |
|  |  |
| 35765 | MorexLeaf\_H3K9ac\_intersect |

|  |  |
| --- | --- |
| **ChIP-seq** | **H3K4me3** |
| 12976 | Morex8DAP\_H3K4me3\_1a |
| 16198 | Morex8DAP\_H3K4me3\_2 |
| 10075 | Morex8DAP\_H3K4me3\_intersect |
| 19099 | Morex8DAP\_H3K4me3\_merged |
|  |  |
| 47454 | Morex24DAP\_H3K4me3\_1 |
| 51563 | Morex24DAP\_H3K4me3\_2 |
| 46220 | Morex24DAP\_H3K4me3\_intersect |
|  |  |
| 53653 | Morex4DAG\_H3K4me3\_1a |
| 48396 | Morex4DAG\_H3K4me3\_2a |
| 46140 | Morex4DAG\_H3K4me3\_intersect |
|  |  |
|  |  |
| 19951 | MorexLeaf\_H3K4me3\_pooled |

|  |  |
| --- | --- |
| **ChIP-seq** | **H3K27me3** |
| 46915 | Morex8DAP\_H3K27me3\_1 |
| 43595 | Morex8DAP\_H3K27me3\_2 |
| 38506 | Morex8DAP\_H3K27me3\_intersect |
|  |  |
|  |  |
| 59006 | Morex24DAP\_H3K27me3\_1 |
| 51373 | Morex24DAP\_H3K27me3\_2 |
| 48316 | Morex24DAP\_H3K27me3\_intersect |
|  |  |
| 71668 | Morex4DAG\_H3K27me3\_1a |
| 85421 | Morex4DAG\_H3K27me3\_2a |
| 70564 | Morex4DAG\_H3K27me3\_intersect |
|  |  |
|  |  |
| 37098 | MorexLeaf\_H3K9ac\_intersect |

**Intergenic peaks** Filtered using “Coding potential set of 77364 regions including HC and LC genes, lncRNA candidates and RNA-seq positive regions”

|  |  |
| --- | --- |
| **ATAC-seq** | **8DAP** |
| 35530 | Intergenic\_8DAP\_ATACseq\_intersect |
|  | **24DAP** |
| 55250 | Intergenic\_24DAP\_ATACseq\_intersect |
|  | **4DAG** |
| 43851 | Intergenic\_4DAG\_ATACseq\_merged |
|  | **Leaf** |
| 32955 | Intergenic\_Leaf\_pooledReps |

|  |  |
| --- | --- |
| **H3K9ac** | **8DAP** |
|  | 8009 |
|  | **24DAP** |
|  | 14351 |
|  | **4DAG** |
|  | 27579 |
|  | **Leaf** |
|  | 8485 |

|  |  |
| --- | --- |
| **H3K4me3** | **8DAP** |
|  | 4527 |
|  | **24DAP** |
|  | 11810 |
|  | **4DAG** |
|  | 11764 |
|  | **Leaf** |
|  | 1864 |

|  |  |
| --- | --- |
| UMRs |  |
| total | 139283 |
| intergenic | 74614 |