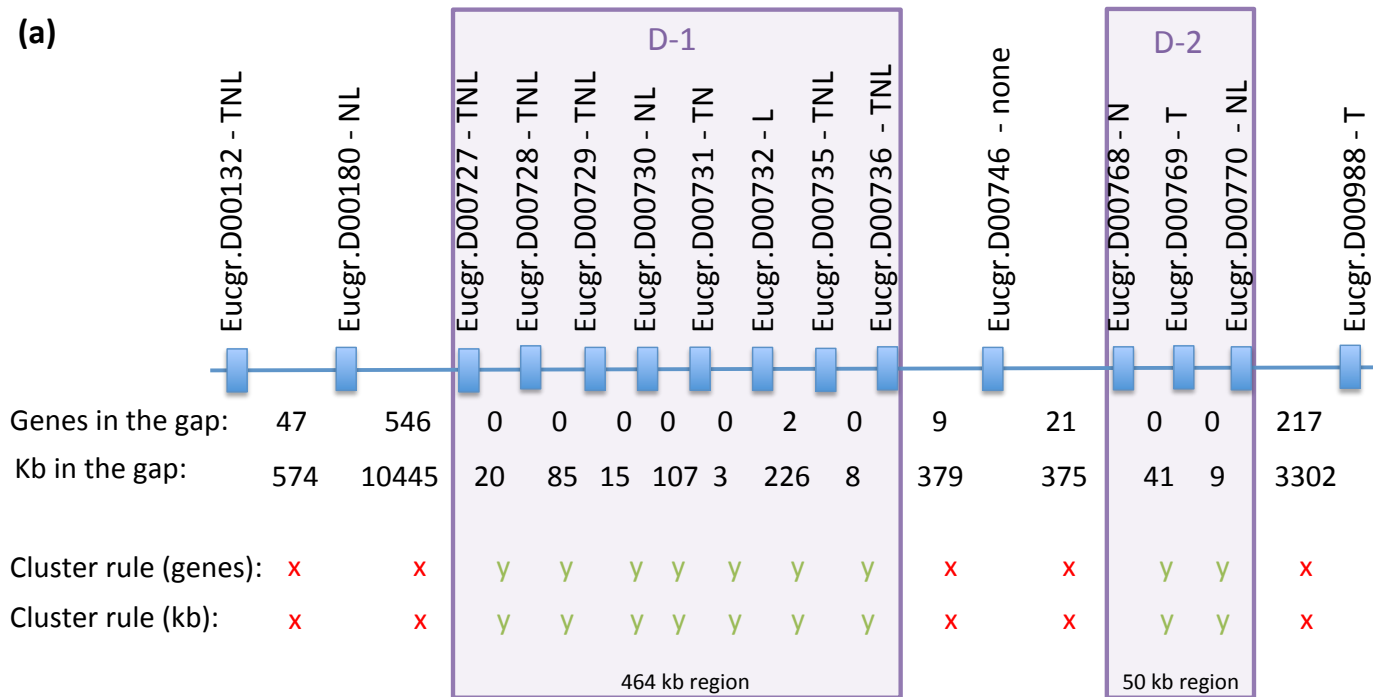
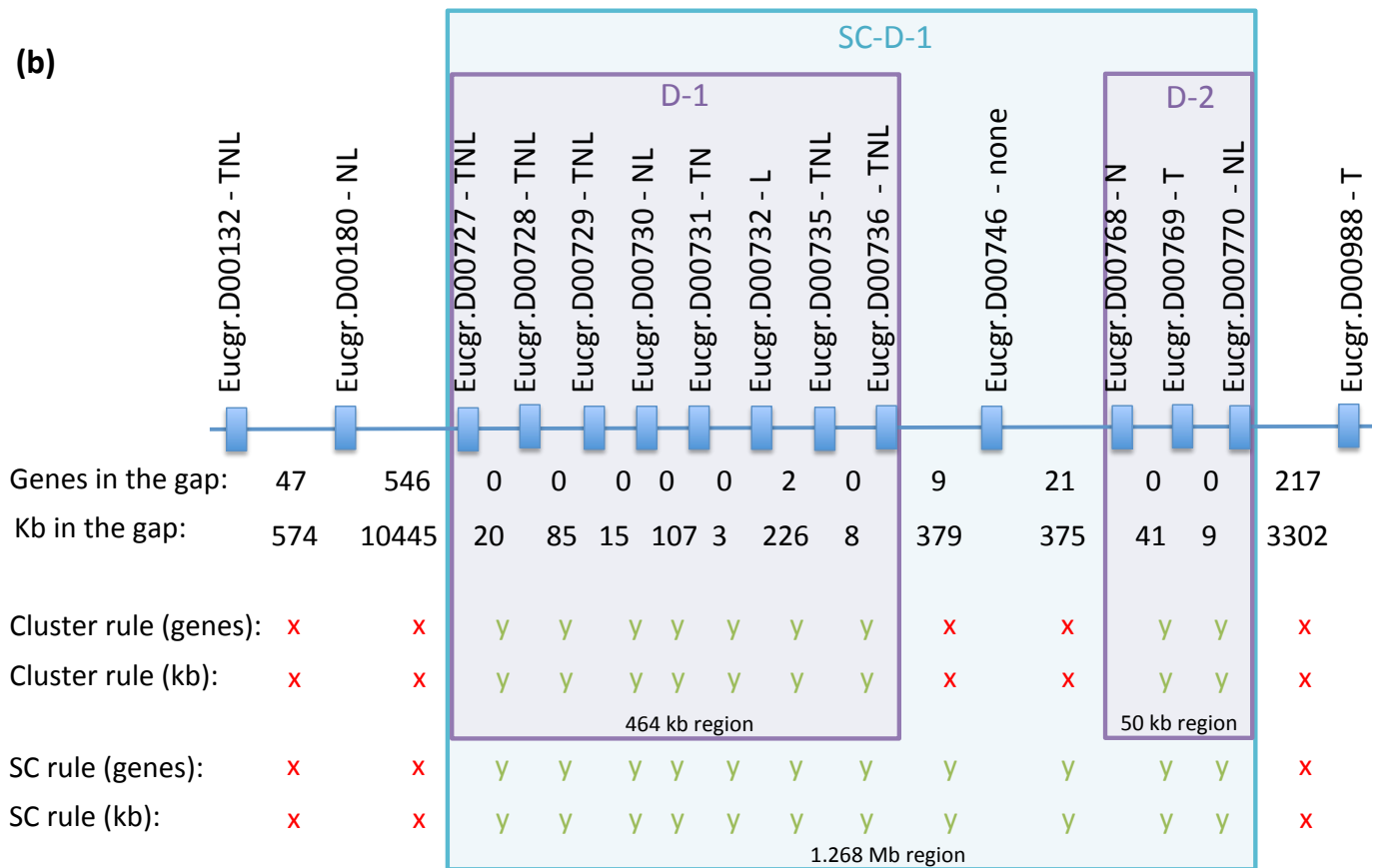


(a)



A gene cluster is defined as a genomic region containing at least three NBS-LRR-like genes, (i) with less than 9 other genes between neighboring NBS-LRR-like genes and (ii) in which two neighboring NBS-LRR-like genes are less than 250 kb apart.

(b)



A gene supercluster is defined as a genomic region containing at least one NBS-LRR gene cluster and at least two additional NBS-LRR-like genes, (i) with less than 99 other genes between neighboring NBS-LRR-like genes and (ii) in which two neighboring NBS-LRR-like genes are less than 2500 kb (2.5 Mb) apart.