



**Figure 7. Contraction of the Immunoglobulin Heavy-Chain Locus in pro-B Cells**

The *IgH* locus consists of a proximal domain containing diversity (D), joining (J), and constant (C) gene segments, and a large variable (V) gene cluster with ~200 V genes spread over a 2.4-Mb region. The *IgH* locus is in an extended configuration in *Pax5*<sup>-/-</sup> or *Ezh2*<sup>-/-</sup> pro-B cells, which allows V(D)J recombination to take place only in the proximal domain. In wild-type pro-B cells, all V<sub>H</sub> genes participate in V<sub>H</sub>-D<sub>H</sub> rearrangements due to contraction of the *IgH* locus by looping.