27. A kit for determining the accessibility of a locus on a chromosome to a DNA modifying agent, the kit comprising,

a cell membrane permeabilizing or disrupting agent;

a restriction enzyme or a DNase.

28. The kit of claim 27, wherein the cell membrane permeabilizing or disrupting agent and the restriction enzyme or DNase are in the same container in the same buffer.

29. The kit of claim 27, wherein the cell membrane permeabilizing or disrupting agent and the restriction enzyme or DNase are in separate containers.

30. The kit of claim 27, further comprising bisulfite.

31. The kit of claim 27, further comprising a primer pair for amplification of a region of genomic DNA of a eukaryote.

32. The kit of claim 27, comprising:

a. primers that prime amplification of a portion of a control DNA region that does not include a potential modification site of the DNA modifying agent; and/or

b. primers that prime amplification of a portion of a control DNA region that does comprise at least one potential modification site of the DNA modifying agent.

33. The kit of claim 27, comprising:

a. primers that prime amplification of a portion of a control DNA region that is not accessible to the modifying agent; and/or

b. primers that prime amplification of a portion of a control DNA region that is accessible to the modifying agent.