



FIGURE 24.23. Nonhomologous gene displacement. A gene that has the same function as an endogenous gene but that is not homologous to the endogenous gene is acquired from another species by lateral transfer. The endogenous gene is subsequently lost, resulting in an organism that carries out the same functions as its ancestor and its relatives but does so using a nonhomologous process.

24.23, adapted from Koonin E.V. et al., *Curr. Opin. Genet. Dev.* **6**: 757–762, © 1996 Elsevier