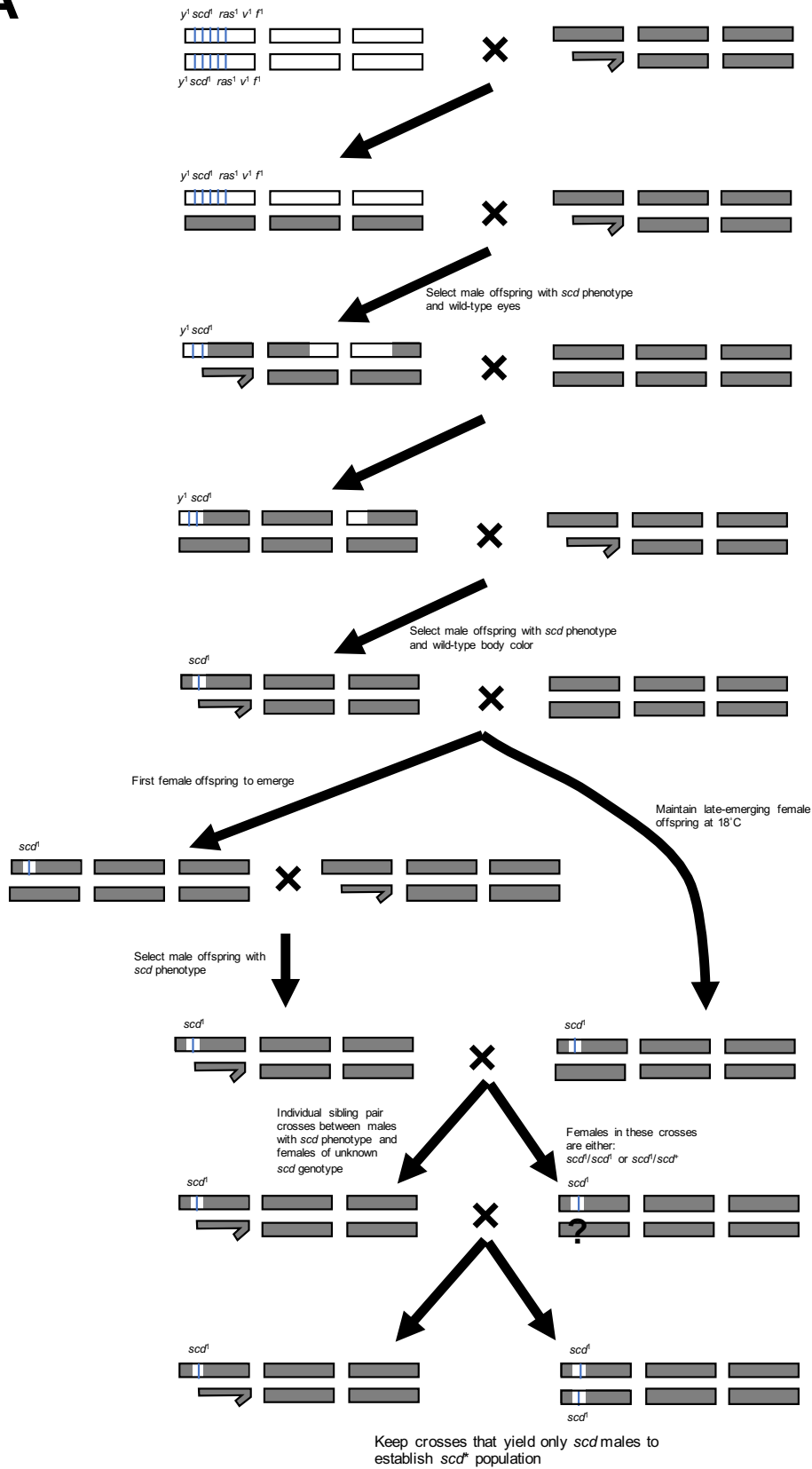


1 **Supplementary Figure 1.** Crossing scheme for introgression of *scd*¹ into the FVW wild-
2 type genetic background. (A) Initial introgression of *scd*¹ into FVW to establish the *scd*^{*}
3 population. White bars represent the original genetic background of the *scd*¹ stock
4 strain; gray bars represent the FVW genetic background. (B) Further backcrossing
5 using larger numbers of flies to introduce additional genetic diversity from FVW to
6 establish the *scd*^{**} base population for experimental evolution. Here gray bars represent
7 the FVW genetic background of the *scd*^{*} population, while colored bars represent a
8 more variable genetic background resulting from further backcrosses to the FVW
9 population conducted in large numbers. See Methods section for detailed description of
10 introgression scheme.

A



B

