



Online Resource S1. Pedigree graph of a portion of the ancestral pedigree arising from 12 founder lines from the northern hemisphere in Canada (CA) or Europe (EU) or from the southern hemisphere in Australia (AU). Founder lines were intercrossed CA×AU and EU×AU and their F₁ progeny were intercrossed to begin field testing of S_{0,1} families in cycle 1 in 2014. Red arrows represent gametes from female parents, and blue lines are gametes from male parents. Selfing is indicated by both red and blue arrows linking parent and progeny genotypes. Progeny with code names are referred to in the text and in Online Resources 3 and 4.