



**File S2 An example of KASPAR results.** The results of KASPAR genotyping for SNP\_75F of 48 *TM3*-bearing recombinants and a control homozygous *FRT2A* fly. KASPAR results, in arbitrary units of FAM and VIC fluorescence, reveal three distinguishable clusters corresponding to the three allelic combinations [CC (control), CT (*FRT2A/TM3*), and TT(*ru h th/TM3*)].