



**Fig. S10** The results obtained using CAPS marker analyses for the rapeseed breeding lines in 2015. For each analyzed plant, two samples (designated with letters P and D, which are explained in Fig. 2) representing two steps of the CAPS protocol were applied on the gel. The numbers above each pair of lanes refer to the description of the plants delivered by breeders in 2015. The control samples are designated as follows: K1—wild-type homozygote, K2—HOR3 type homozygote,  $K^1/K_2$ —mixed sample of the wild-type and HOR3 homozygotes (for the simulation of the heterozygotic genotype), and K3—HOR4 type homozygote. The arrows indicate the DNA fragments observed on the agarose gel, and their colors correspond to the colors used for the display of each mutation shown in Fig. 1

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**Cleaved amplified polymorphic sequences (CAPS) marker for identification of two mutant alleles of the rapeseed *BnaA.FAD2* gene**  
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