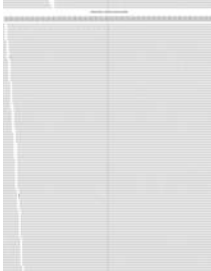
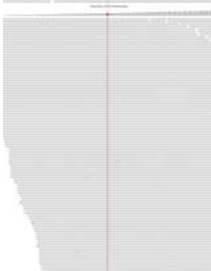
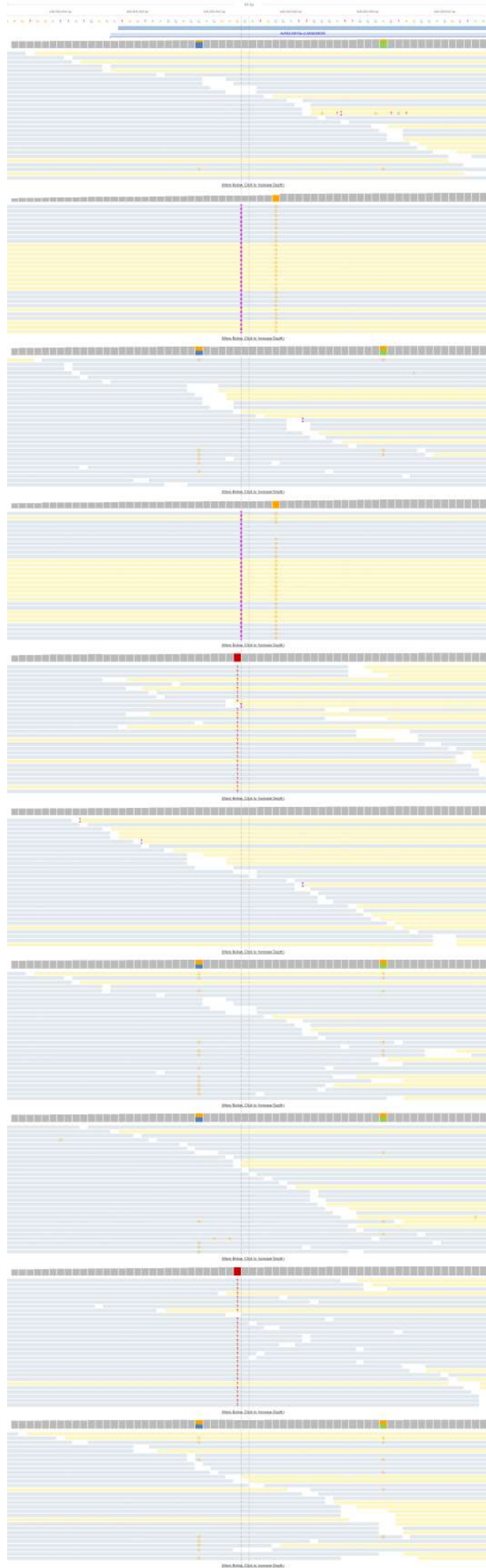


Supplementary files

1. Read alignment of target capture sequencing data of oat genotypes obtained through BWA-MEM. The SNP located on chromosome 2A at position 456055130 is the targeted Variant. Oat genotypes are arranged as follows: KF-318, NOS 819111-120, NOS 819111-70, NOS 81920-15, NOS 81937-11 NOS 81950-13, Delfin, Mathilda, WPB Oskar, Symphony. (fig. 1, Page 2)
2. Read alignment of target capture sequencing data of oat genotypes obtained through BWA-MEM. The SNP located on chromosome 2A at position 455932982 is the targeted Variant. Oat genotypes are arranged as follows: KF-318, NOS 819111-120, NOS 819111-70, NOS 81937-11 NOS 81950-13, Delfin, Mathilda and WPB Oskar. (fig. 2, Page 3)
3. Read alignment of target capture sequencing data of oat genotypes obtained through BWA-MEM. The deletion located on chromosome 2A at position 453603957 is the targeted Variant. Oat genotypes are arranged as follows: KF-318, NOS 819111-120, NOS 819111-70, NOS 81920-15, NOS 81937-11 NOS 81950-13, Delfin, Mathilda, WPB Oskar, Symphony. (fig. 3, Page 4)
4. Read alignment of target capture sequencing data of oat genotypes obtained through BWA-MEM. The insertion located on chromosome 2A at position 456585644 is the targeted Variant. Oat genotypes are arranged as follows: KF-318, NOS 819111-120, NOS 819111-70, NOS 81920-15, NOS 81937-11 NOS 81950-13, Delfin, Mathilda, WPB Oskar, Symphony. (fig. 4, Page 5)
5. Supplementary Table 1: Primers flanking the variants for validation study (Page 6)







Supplementary Table 1: Primers flanking the variants for validation study

Name	Type	Gene	Sequence (5'-3')	Validation method	PCR product (bp)
2A_456055130	SNP	AVESA.00010b.r2.2AG0258170	456055130_F-GTGCTCTGCCCCCTGTATTC 456055130_R-CCATCGTCGTTGTCCACCAT	Sanger	500
2A_455932982	SNP	AVESA.00010b.r2.2AG0258110	455932982_F-CCTCTGTTTGCTTCTCCACCA 455932982_R-AACACCTCCGGTTCAGCAAG	Sanger	500
9bp_453603957	Deletion	AVESA.00010b.r2.2AG0257420	7420_F-AACATACTGTCGTGGTCGGC 7420_R-ACCTTCGCAGCAATAGCCAA	HRM	169
3bp_456585644	Insertion	AVESA.00010b.r2.2AG0258320	258320_F- CCGTCAAGTGGATTATCAAATGGT 258320_R-GTGGAGGTTGCCGACGATC	HRM	181