

**Fig. S3** The structure and expression pattern of *LaAP2-2*. (a) Schematic representation of the genomic structure of *LaAP2-2*. White indicates exon; grey indicates intron; grey arrows indicate the positions of the primers used to measure the pre-mRNA; black arrows indicate the positions of the primers used to measure the spliced mRNA. (b-d)Expression patterns of *LaAP2-2* pre-mRNA and spliced mRNA during tree aging detected by three different primer pairs. The lateral branches of 1-, 3-, and 5-year-old active *Larix kaempferi* trees (n ≥6, sampled on 4 July 2019) were used to detect the expression patterns, which were assayed by qRT-PCR with *LaEF1A1* as the internal control. The capitalized Roman numerals (I-VI) in Fig. a-d represent the different primers.