

Table S17. Number of genes related to fruit softening in the *A. montana* genome.

| Type | Gene | Description | Number | Enzyme Commission |
|--|----------------|---------------------------------|--------|-------------------------|
| Starch degradation coding gene | AMY | α -amylase | 4 | EC:3.2.1.1 |
| | AGL | α -glucosidase | 2 | EC:3.2.1.20 |
| | BAM | β -amylase | 12 | EC:3.2.1.2 |
| | DPE | 4- α -glucanotransferase | 2 | EC:2.4.1.25 |
| | GWD | glucan, water dikinase | 2 | EC:2.7.9.4 |
| | ISA | isoamylase | 3 | EC:3.2.1.68 |
| | PHS | glucan phosphorylase | 6 | EC:2.4.1.1 |
| Cellulose degradation and cell-wall softening coding enzymes genes | PWD | phosphoglycan, water dikinase | 1 | EC:2.7.9.5 |
| | β -GAL | β -galactosidase | 2 | EC:3.2.1.23 |
| | XY | β -xylosidase | 8 | EC:3.2.1.37 |
| | RG | rhamnogalacturonase | 3 | EC:4.2.2.23 |
| | EG | endoglucanase | 15 | EC:3.2.1.4 |
| | PL | pectate lyase | 14 | EC:4.2.2.2 |
| | PG | polygalacturonase | 30 | EC:3.2.1.15/EC:3.2.1.67 |
| | PME | pectin methylesterase | 45 | EC:3.1.1.11 |
| | α -L-Af | α -L-Arabinofuranosidase | 12 | EC:3.2.1.55 |
| | XET | Xyloglucan endotransglucosylase | 29 | EC:2.4.1.207 |
| | BG | beta-glucosidase | 35 | EC:3.2.1.21 |