

Table 1 The informations of all enzymes which were collected from Uniprot

| species | UniprotID | Function | Length of amino acids |
|-------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <i>o.sativa (indica)</i> | A2XNV3 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group | 532 |
| <i>o.sativa (japonica)</i> | Q4ADV8 | Catalyzes the oxidation of cytokinin, modulates the number of reproductive organs by regulating the cytokinin accumulation in inflorescence meristem, major QTL involved in high grain production | 565 |
| <i>o.sativa (japonica)</i> | Q5JLP4 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group | 529 |
| <i>o.sativa (japonica)</i> | Q8LNV6 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group | 527 |
| <i>A.thaliana (mouse-ear cress)</i> | Q9FUJ1 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group | 524 |
| <i>A.thaliana (mouse-ear cress)</i> | Q9FUJ3 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group | 501 |
| <i>A.thaliana (mouse-ear cress)</i> | Q67YU0 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group | 540 |
| <i>Zea mays</i> | Q9T0N8 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group. Cleaves zeatin, isopentenyladenine, isopentenyladenosine, zeatinriboside and cis-zeatin, but not dihydrozeatin, kinetin and benzylaminopurine. | 534 |
| <i>A.thaliana (mouse-ear cress)</i> | Q9LY71 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenylgrou | 533 |
| <i>A.thaliana (mouse-ear cress)</i> | Q9LTS3 | Catalyzes the oxidation of cytokinins, a family of N(6)-substituted adenine derivatives that are plant hormones, where the substituent is an isopentenyl group | 523 |