

Table 3 Phosphorylation sites and structures of PDCT proteins

| Protein name | Alpha-helix (%) | Extended strand (%) | Random coil (%) | Number of predicted TMHs | Threonine | Serine | Tyrosine | Total sites |
|--------------|-----------------|---------------------|-----------------|--------------------------|-----------|--------|----------|-------------|
| AhPDCT1      | 49.49           | 14.24               | 36.27           | 4                        | 11        | 11     | 0        | 22          |
| AhPDCT2      | 50.98           | 7.52                | 41.5            | 4                        | 12        | 11     | 1        | 24          |
| AhPDCT3      | 40.79           | 14.8                | 44.41           | 4                        | 12        | 13     | 0        | 25          |
| BnPDCT1      | 39.36           | 16.67               | 43.97           | 4                        | 9         | 15     | 5        | 29          |
| BnPDCT2      | 36.4            | 17.31               | 46.29           | 4                        | 11        | 14     | 3        | 28          |
| BnPDCT3      | 32.86           | 18.73               | 48.41           | 4                        | 10        | 16     | 3        | 29          |
| BnPDCT4      | 42.14           | 12.86               | 45              | 4                        | 9         | 16     | 5        | 30          |
| GmPDCT1      | 45.88           | 12.9                | 41.22           | 4                        | 9         | 12     | 1        | 22          |
| GmPDCT2      | 46.82           | 14.23               | 38.95           | 4                        | 8         | 12     | 1        | 21          |
| GhPDCT1      | 34.71           | 19.93               | 45.36           | 4                        | 13        | 17     | 1        | 31          |
| GhPDCT2      | 45.09           | 21.43               | 33.48           | 4                        | 10        | 13     | 2        | 25          |
| GhPDCT3      | 41.09           | 15.27               | 43.64           | 4                        | 13        | 15     | 1        | 29          |
| GhPDCT4      | 42.07           | 13.65               | 44.28           | 4                        | 12        | 14     | 1        | 27          |
| HaPDCT1      | 38.32           | 13.87               | 47.81           | 4                        | 13        | 13     | 2        | 28          |
| HaPDCT2      | 36.79           | 22.86               | 40.36           | 4                        | 10        | 11     | 1        | 22          |
| SiPDCT       | 41.84           | 11.9                | 46.26           | 4                        | 12        | 10     | 3        | 25          |
| NnPDCT1      | 52.3            | 11.66               | 36.04           | 4                        | 14        | 13     | 0        | 27          |
| NnPDCT2      | 46.79           | 12.86               | 40.36           | 4                        | 10        | 11     | 1        | 22          |
| OsPDCT       | 45.93           | 9.77                | 44.3            | 3                        | 4         | 6      | 0        | 10          |
| ZmPDCT       | 48.23           | 7.09                | 44.68           | 3                        | 8         | 5      | 0        | 13          |