**Supplementary Table S1. Primers used in this work.**

| Primer name | Primer sequence (5'-3') | Product size (bp) |
|---|---|---|
| GuCPK1-sense | GAGAAAGATGGGAAATGACG | 280 |
| GuCPK1-antisense | TTCAGGCTGAGACTGGTAAA | |
| GuCPK2-sense | GCAACCTACGAGGACAACGA | 195 |
| GuCPK2-antisense | ATAGTAAGGACTCCCAACAATCT | |
| GuCPK2F-sense* | ATGGGAAACTGCAACGT | 1653 |
| GuCPK2F-antisense* | TCAAACCACTACCGCTT | |
| GuCPK3-sense | GGTGGGCAGTGCTTACTATGT | 152 |
| GuCPK3-antisense | TGGCGTTAAATATTCCCTTTTCAGT | |
| GuCPK4-sense | CGCATTACTTCTGCTCAGGT | 187 |
| GuCPK4-antisense | TTGCCTTCAAACCTTGGATC | |
| GuCPK5-sense | CACTCATTCTGATCCCTCCG | 155 |
| GuCPK5-antisense | CATAATACGCTTGGTTGTCG | |
| GuCPK6-sense | ATGACGATGCCGTTCACCTC | 289 |
| GuCPK6-antisense | ATGACTCCAGCACTCCAGAT | |
| GuCPK6F-sense* | ATGGGAAATTGCTGTACG | 1568 |
| GuCPK6F-antisense* | TCATCTACCTTCATTTTCTAA | |
| GuCPK7-sense | ACGCAGCCAATCGCAAAC | 283 |
| GuCPK7-antisense | TGTCCGTGACCCAACAAC | |
| GuCPK8-sense | CCTCAGCAACGACGAGAATT | 107 |
| GuCPK8-antisense | CATAATAGGCACTCCCAACAA | |
| GuCPK9-sense | GCAGGGCTTCAAGCAGAGTC | 169 |
| GuCPK9-antisense | CCAGTTTCACCTTTGGGATG | |
| GuCPK9F-sense* | CTTAAGGCAATAGATTTTGGAATGTCT | 370 |
| GuCPK9F-antisense* | GCAACACCGTCAACCTGAATCCAAG | |
| GuCPK10-sense | CCATCGCCGAGGTTGTTAGG | 270 |
| GuCPK10-antisense | CAGTCTCAGCCCAAAAAGGA | |
| GuCPK10F-sense* | ATGGGGAATTGCTGCACGT | 1650 |
| GuCPK10F-antisense* | TCAAACCACAACAGCTTGGCCACTG | |
| GuCPK11-sense | ATAGGCGGGTTGAAAGAGTT | 144 |
| GuCPK11-antisense | ATCAGCCGCATCCATAAGAG | |
| GuCPK12-sense | AACTAATGAGCCTGAATCCC | 288 |
| GuCPK12-antisense | TACTGGTGTCCCGTTGCTTT | |
| GuCPK13-sense | GTTGTCAGCCTTCTCCTATT | 257 |
| GuCPK13-antisense | CATTGCCTACTATTCCCAGA | |
| GuCPK13F-sense* | ATGGCGAAATCGAATTCGAGC | 1615 |
| GuCPK13F-antisense* | TCAATTTTCATGCAATGAATCATCT | |
| GuCPK14-sense | CCACAAGAACACTGGGAAAC | 194 |
| GuCPK14-antisense | CTGCACACAATTCCATCACC | |
| GuCPK15-sense | TTTTATCACGCCTGAAGCAA | 265 |
| GuCPK15-antisense | TCACCATAGTCAAGTGTCCC | |
| GuCPK16-sense | ATGGGTGGCTGTCTGAGTAA | 115 |

| | | |
|---|---|---|
| GuCPK16-antisense | TTGATTGGTTCACAAAGGGT | |
| GuCPK16F-sense* | AAATCTCTCTTTTTTTGTGCCA | 1705 |
| GuCPK16F-antisense* | AAACTTTTAGTGAGCCCTTCCC | |
| GuCPK17-sense | GCTGTTGCTGTCCATGTTGT | 221 |
| GuCPK17-antisense | GCCTAGCTGCCTTTCTCTCA | |
| GuCPK17F-sense* | GATGCTTATAGTGTTAGATGGG | 1756 |
| GuCPK17F-antisense* | CTTAACATACAGGTAGTGCCTC | |
| GuCPK18-sense | CTATGTGGCTCCAGAGGTGT | 247 |
| GuCPK18-antisense | GGTAATGCGTTTCTTAGGGT | |
| GuCPK19-sense | GGCAAATGTTAGAACCAGACC | 109 |
| GuCPK19-antisense | ACATCTCCAAGAGGAACATTAGG | |
| GuCPK20-sense | TTTTGGGATGAAACGGAACA | 196 |
| GuCPK20-antisense | GAGCAACACCTCCAACCTGA | |
| GuCPK21-sense | TGGGCAGAATCCGAACATGGTA | 158 |
| GuCPK21-antisense | AAAACTTCCCCCGCCGTCAG | |
| GuCPK22-sense | GTTCTTAGAGTGGTTGCCGATA | 168 |
| GuCPK22-antisense | CTGGACATCAGGATCAGGAATA | |
| GuCPK22F-sense* | ACCTTGTCATGGAGCTCTGC | 792 |
| GuCPK22F-antisense* | ATCAGGAATAGCGTGTCCAATC | |
| GuCPK23-sense | TCTCCCTAAACTGGGTACTAAA | 186 |
| GuCPK23-antisense | CCGCTCTTATCCTGGTCAAA | |
| GuActin-sense | CCTCAACCCAAAGGTCAACAG | |
| GuActin-antisense | GACCAGCGAGATCCAAACGAA | |

*: Primers used for amplifying the full-length open reading frame sequences of *GuCPKs*.