

Supplementary Table S3. Detailed information of *GuCPKs*.

Gene name	Scaffold location <sup>a</sup>	Predicted Protein <sup>b</sup>				N-termianal AA.	Palmitoylation	Myristoylation	Subcellular location <sup>c</sup>
		ORF (bp)	Length (aa)	MW (kDa)	pI		sites <sup>c</sup>	sites <sup>d</sup>	
<i>GuCPK1</i>	scaffold0019 (-): 599558 - 604247	1644	547	61.63	6.11	MGNCCATP	Yes	n.d.	P
<i>GuCPK2</i>	scaffold0020 (-): 183531 - 187574	1542	513	57.69	5.86	MGNCNVCA	Yes	n.d.	P
<i>GuCPK3</i>	scaffold0026 (+): 234895 - 240067	1647	548	61.06	5.95	MGCHGSKE	Yes	Yes	P
<i>GuCPK4</i>	scaffold0029 (-): 62755 - 67593	1638	545	61.45	6.31	MGSCSLG	Yes	Yes	P
<i>GuCPK5</i>	scaffold0059 (+): 59588 - 69104	1683	560	62.78	5.79	MGNTCRGS	Yes	n.d.	P
<i>GuCPK6</i>	scaffold0110 (+): 167069 - 171335	1503	500	56.99	6.22	MGNCCCTP	Yes	Yes	P
<i>GuCPK7</i>	scaffold0140 (+): 307174 - 312863	1701	566	64.30	9.22	MGLCFSS	Yes	Yes	P
<i>GuCPK8</i>	scaffold0143 (+): 95483 - 99940	1545	514	58.11	6.60	MGNRISRK	n.d.	Yes	P
<i>GuCPK9</i>	scaffold0170 (-): 142051 - 146381	2025	674	75.08	6.12	MGNNCVGS	Yes	n.d.	P
<i>GuCPK10</i>	scaffold0204 (+): 73080 - 77284	1626	541	61.34	5.85	MGNCCCTCV	Yes	Yes	P
<i>GuCPK11</i>	scaffold0217 (+): 42799 - 46457	1620	539	60.92	5.76	LEREREGE	n.d.	n.d.	P
<i>GuCPK12</i>	scaffold0224 (-): 38473 - 43745	1731	576	64.57	5.34	MGNCTCVGP	Yes	n.d.	P
<i>GuCPK13</i>	scaffold0252 (+): 113646 - 118430	1650	549	62.01	5.18	MAKSNSST	n.d.	n.d.	P
<i>GuCPK14</i>	scaffold0254 (+): 139702 - 143097	1593	530	59.18	5.66	MGNCCSGG	Yes	Yes	P
<i>GuCPK15</i>	scaffold0282 (-): 102302 - 107315	1482	493	55.77	5.33	MSKSNTVV	n.d.	n.d.	P
<i>GuCPK16</i>	scaffold0364 (-): 96991 - 102305	1692	563	63.57	8.51	MGGCLSCK	Yes	Yes	P
<i>GuCPK17</i>	scaffold0475 (+): 46323 - 51388	1716	571	63.15	5.73	MGNNCVGS	Yes	n.d.	P
<i>GuCPK18</i>	scaffold0702 (-): 63458 - 70368	1581	526	59.05	5.47	MGLGVFKA	n.d.	n.d.	P
<i>GuCPK19</i>	Scaffold1037 (+): 77874 - 84236	1620	539	60.29	6.08	MGNCCRSP	Yes	n.d.	P
<i>GuCPK20</i>	Scaffold1288 (+): 66653 - 71753	1824	607	66.40	5.51	MGNNWVGP	n.d.	n.d.	P
<i>GuCPK21</i>	Scaffold1585 (+): 27089 - 31953	2097	698	78.45	5.28	MGNCCSQG	Yes	Yes	P
<i>GuCPK22</i>	Scaffold1732 (+): 21924 - 25798	1560	519	58.83	5.63	MGSCVSTQ	Yes	Yes	P
<i>GuCPK23</i>	Scaffold2052 (-): 7400 - 13113	1542	513	57.64	6.01	MGNCCSSG	Yes	Yes	P

<sup>a</sup> scaffold location: [Scaffold number (Orientation): start - end], '+' and '-' indicate the forward and reverse orientation, respectively.

<sup>b</sup> aa, amino acid; MW, molecular weight; *pI*, isoelectric point.

<sup>c</sup> The predicted palmitoylation site of each GuCPK was using CSS-Palm 4.0.

<sup>d</sup> The predicted palmitoylation site of each GuCPK was using Myristoylator..

<sup>e</sup> The predicted subcellular location of each GuCPK was analyzed using Softberry server.