

Table S2 Characteristics of *GmSnRK2s* in soybean

Gene name	Gene ID	Amino acid residues	MW (Da)	pI	instability index	GRAVY	Chromosome
<i>GmSnRK2.1</i>	Glyma.04g205400	349	40,349.00	6.10	45.81	-0.497	4
<i>GmSnRK2.2</i>	Glyma.06g160100	346	39,979.67	6.48	43.51	-0.468	6
<i>GmSnRK2.3</i>	Glyma.05g197700	351	40,428.98	5.95	44.26	-0.523	5
<i>GmSnRK2.4</i>	Glyma.08g005100	351	40,386.86	5.75	46.31	-0.529	8
<i>GmSnRK2.5</i>	Glyma.08g188300	352	40,262.80	6.10	49.33	-0.486	8
<i>GmSnRK2.6</i>	Glyma.12g169800	359	41,081.59	5.82	48.44	-0.537	12
<i>GmSnRK2.7</i>	Glyma.02g208500	338	38,301.73	5.38	31.82	-0.267	2
<i>GmSnRK2.8</i>	Glyma.14g176700	338	38,176.66	5.38	37.08	-0.251	14
<i>GmSnRK2.9</i>	Glyma.05g176100	227	25,639.95	4.58	53.31	-0.349	5
<i>GmSnRK2.10</i>	Glyma.08g133600	345	39,236.66	5.15	41.37	-0.300	8
<i>GmSnRK2.11</i>	Glyma.05g066700	336	38,124.45	5.60	37.51	-0.447	5
<i>GmSnRK2.12</i>	Glyma.17g148800	287	32,698.73	8.33	32.29	-0.183	17
<i>GmSnRK2.13</i>	Glyma.01g204200	339	38,559.92	6.44	39.70	-0.432	1
<i>GmSnRK2.14</i>	Glyma.11g038800	339	38,660.03	6.39	37.40	-0.450	11
<i>GmSnRK2.15</i>	Glyma.02g135500	264	29,816.59	4.69	46.23	-0.358	2
<i>GmSnRK2.16</i>	Glyma.07g209400	354	40,197.60	5.04	44.90	-0.353	7
<i>GmSnRK2.17</i>	Glyma.07g178600	205	23,309.80	6.71	41.82	-0.319	7
<i>GmSnRK2.18</i>	Glyma.20g009600	315	36,032.92	4.94	47.58	-0.303	20
<i>GmSnRK2.19</i>	Glyma.01g183500	313	35,323.05	4.78	39.87	-0.217	1
<i>GmSnRK2.20</i>	Glyma.11g058800	267	30,325.90	6.31	36.16	-0.196	11
<i>GmSnRK2.21</i>	Glyma.05g081900	360	40,801.37	4.75	43.41	-0.268	5
<i>GmSnRK2.22</i>	Glyma.17g178800	293	33,184.09	6.25	39.95	-0.218	17