

**Table S1** Accession numbers of SRK-related sequences for Figure 1, from *Arabidopsis halleri* (Aha), *A. lyrata* (Aly), *A. thaliana* (Ath), *Brassica oleraceae* (Bol), *B. rapa* (Bra) and *Capsella grandiflora* (Cgr).

<i>Sequence</i>	<i>Accession number</i>	<i>Sequence</i>	<i>Accession number</i>
<i>AhaSRK03</i>	EU075126	<i>BolSRK06</i>	M76647.1
<i>AhaSRK04</i>	DQ520278	<i>BolSRK07</i>	AB070624.1
<i>AhaSRK11</i>	EU075132	<i>BolSRK08</i>	AB054708.1
<i>AhaSRK12</i>	EU075133	<i>BolSRK11</i>	AB054709.1
<i>AhaSRK13</i>	EU075134	<i>BolSRK12</i>	AB180901.1
<i>AhaSRK15</i>	EU075136	<i>BolSRK13</i>	AB024420.2
<i>AhaSRK20</i>	EU075141	<i>BolSRK15</i>	AB180903.1
<i>AhaSRK22</i>	EU075143	<i>BolSRK16</i>	AB054710.1
<i>Aly327420</i>	XM_002872670.1	<i>BolSRK18</i>	AB032473.1
<i>AlyARK3_946052</i>	XM_002867806.1	<i>BolSRK23</i>	AB013720.1
<i>AlySRK03</i>	AF328992	<i>BolSRK24</i>	AB054712.1
<i>AlySRK04</i>	AF328994	<i>BolSRK25</i>	AB054713.1
<i>AlySRK05</i>	AF328990	<i>BolSRK29</i>	Z30211.1
<i>AlySRK06</i>	DQ520281	<i>BolSRK33</i>	AB054714.1
<i>AlySRK08</i>	AY186766	<i>BolSRK35</i>	AB054715.1
<i>AlySRK09</i>	DQ520282	<i>BolSRK36</i>	AB054716.1
<i>AlySRK10</i>	AY186767	<i>BolSRK38</i>	AB054717.1
<i>AlySRK12</i>	AY186769	<i>BolSRK39</i>	AB054718.1
<i>AlySRK13</i>	AF328993	<i>BolSRK45</i>	AB054719.1
<i>AlySRK14</i>	AY186770	<i>BolSRK50</i>	AB054720.1
<i>AlySRK15</i>	AY186771	<i>BolSRK51</i>	AB054721.1
<i>AlySRK16</i>	DQ520283	<i>BolSRK57</i>	AB054722.1
<i>AlySRK18</i>	DQ520284	<i>BolSRK58</i>	AB054723.1
<i>AlySRK19</i>	AF328998	<i>BolSRK60</i>	AB032474.1
<i>AlySRK20</i>	AF328995	<i>BolSRK62</i>	AB054724.1
<i>AlySRK22</i>	DQ520285	<i>BolSRK64</i>	AB054725.1
<i>AlySRK23</i>	AF328997	<i>BraARK03_013522</i>	AB041621.1
<i>AlySRK25</i>	DQ520286	<i>BraSRK46</i>	AB013718.2
<i>AlySRK27</i>	EU878017	<i>BraSRK54</i>	AB219162.1
<i>AlySRK29</i>	AY186776	<i>BraSRK60</i>	AB097116.1
<i>AlySRK30</i>	EU878018	<i>CgrSRK01</i>	DQ530637.1
<i>AlySRK33</i>	EU878019	<i>CgrSRK02</i>	DQ530638.1
<i>AlySRK35</i>	EU878021	<i>CgrSRK03</i>	DQ530639.1
<i>AlySRK36</i>	DQ520288	<i>CgrSRK04</i>	DQ530640.1
<i>AlySRK37</i>	DQ520289	<i>CgrSRK05</i>	DQ530641.1
<i>AlySRK38</i>	EU165341	<i>CgrSRK06</i>	DQ530642.1
<i>AlySRK39</i>	EU878022	<i>CgrSRK07</i>	EF530735.1
<i>AlySRK43</i>	EU878024	<i>CgrSRK09</i>	FJ649955.1
<i>AlySRK44</i>	EU878025	<i>CgrSRK11</i>	FJ649956.1
<i>AthSRKC</i>	KC207414.1	<i>CgrSRK14</i>	FJ649958.1
<i>BolSRK01</i>	AB054706.1	<i>CgrSRK18</i>	FJ649953.1
<i>BolSRK02</i>	AJ306588.1	<i>CgrSRK24</i>	FJ649962.1
<i>BolSRK03</i>	X79432.1	<i>CgrSRK37</i>	FJ649959.1
<i>BolSRK05</i>	Y18259.1	<i>CgrSRK38</i>	FJ649960.1