

**Table S4** *B. vulgaris* orthologues of *Arabidopsis* genes involved in lateral root development used in our analysis.

<b>B. vulgaris gene</b>	<b>Accession number</b>	<b>Orthologous in <i>Arabidopsis</i></b>	<b><i>Arabidopsis</i> locus name</b>
<i>BvLBD16</i>	XM_010680914	<i>AtLBD16</i>	AT2G42430
<i>BvLBD18</i>	XM_010693967	<i>AtLBD18</i>	AT2G45420
<i>BvLBD29</i>	XM_010680915	<i>AtLBD29</i>	AT3G58190
<i>BvARF7</i> (transcript variant X1)	XM_010689234	<i>AtARF7</i>	AT5G20730
<i>BvARF7</i> (transcript variant X2)	XM_010689235	<i>AtARF7</i>	AT5G20730
<i>BvARF19</i>	XM_010671296	<i>AtARF19</i>	AT1G19220
<i>BvIAA14</i>	XM_010680863	<i>AtIAA14</i>	AT4G14550
<i>BvAUX28</i>	XM_010676553	<i>AtIAA28</i>	AT5G25890