

**Table S1.** Summary of the QTL regions related to silique length including linkage groups (LGs), single nucleotide polymorphism (SNP), position, logarithm of the odds (LOD)

<b>QTL names</b>	<b>LGs</b>	<b>SNPs</b>	<b>Position in LG</b>	<b>LOD</b>
<i>qSLr4</i>	R4	R4_38169053	48.781	4.44
<i>qSLr4</i>	R4	R4_38712953	51.308	5.93
<i>qSLr4</i>	R4	R4_37067463	52.019	9.55
<i>qSLr4</i>	R4	R0_29177721	53.183	9.59
<i>qSLr4</i>	R4	R4_22823445	53.263	5.51
<i>qSLr4</i>	R4	R0_29177966	53.775	6.24
<i>qSLr4</i>	R4	R4_39930307	54.064	4.70
<i>qSLr4</i>	R4	R4_40520291	55.211	4.41



**Figure S1.** An example of phenotypic observation of silique length. From the left, two siliques from paternal and maternal lines, and 15 siliques from an F2 individual no. '52'.