

**Table S4.** Candidate genes information of *Cr4Ba8.1*

Gene	Homologous gene	Functional annotation	Highest expression
<i>Bra020858</i>	<i>AT4G22100</i>	Carbohydrate transport and metabolism	—
<i>Bra020859</i>	<i>AT4G22080</i>	Pectate lyase; Right handed beta helix region	Root
<i>Bra020860</i>	<i>AT4G22060</i>	F-box domain	Silique
<i>Bra020861</i>	<i>AT3G25510</i>	TIR domain; Leucine Rich repeats (2/6 copies); NB-ARC domain	Root
<i>Bra020862</i>	<i>AT4G21910</i>	MatE	Flower
<i>Bra020863</i>	<i>AT4G21910</i>	MatE	Flower
<i>Bra020864</i>	<i>AT4G21895</i>	AT hook motif; DNA binding protein	Flower
<i>Bra020865</i>	<i>AT4G21870</i>	Hsp20/alpha crystallin family; Posttranslational modification, protein turnover, chaperones	Flower
<i>Bra020866</i>	<i>AT4G21865</i>	Unknown	Flower
<i>Bra020867</i>	—	Unknown	—
<i>Bra020868</i>	<i>AT4G21850</i>	SelR domain; Peptide methionine sulfoxide reductase B9	Root
<i>Bra020870</i>	<i>AT4G21810</i>	Der1-like family	Leaf
<i>Bra020871</i>	<i>AT4G21800</i>	Conserved hypothetical ATP binding protein; 50S ribosome-binding GTPase; Ras family	Leaf
<i>Bra020872</i>	<i>AT4G21750</i>	START domain; Homeobox domain	Flower
<i>Bra020873</i>	<i>AT4G21710</i>	RNA polymerase Rpb2, domain 2/3/4/5/6/7; RNA polymerase beta subunit; B3 DNA binding domain	Root
<i>Bra020874</i>	—	B3 DNA binding domain	—
<i>Bra020875</i>	<i>AT4G20930</i>	NAD binding domain of 6-phosphogluconate dehydrogenase	Flower
<i>Bra020876</i>	<i>AT4G20940</i>	Leucine Rich repeats (2 copies)	Flower