



**B**  
the predicted results using Lasso regression

	QD2_1	QD2_3	QD2_6	QD3_39	QD3_48	QD3_62	QD3_130	QD3_131	QD3_163	Q5_13	Q4_52	Q4_39	Q4_42	Q4_28	ZQ2_68	ZQ2_3	ZQ4_39	ZQ3_15	ZQ3_29	ZQ2_109
Phenotype	disbud	disbud	disbud	disbud	disbud	disbud	disbud	disbud	disbud	single	single	single	single	single	multiple	multiple	multiple	multiple	multiple	multiple
dummy variables	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2
HS_predict	-12.4428	-12.4156	-9.75826	-20.7157	-14.7572	-14.7213	-16.4984	-12.6257	-18.9619	17.39339	8.126744	-1.36393	2.476631	9.885527	13.75179	8.000332	-12.7723	28.04828	29.41868	35.41194
BGZ_predict	-10.2677	-11.3637	-8.55242	23.16279	-16.8633	-15.657	3.675166	-14.4106	2.236406	18.18899	7.567168	0.334061	3.634008	9.379869	15.29814	13.52309	4.629361	25.95085	29.79837	30.12705

**Fig. S4, Flower prediction using LASSO regression algorithm. (A)** shows the order of the importance of the selected features. **(B)** Comparing the predicted flower type phenotype with manually determined classifications.