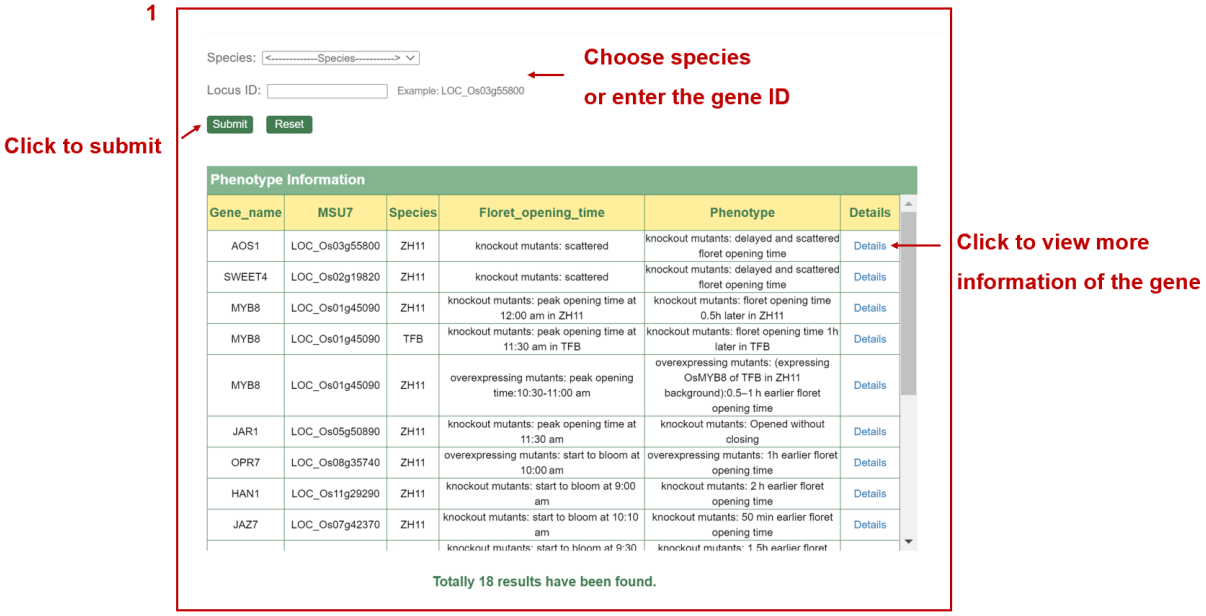
Phenotype

On phenotype page, 18 phenotypic datasets collected from various literatures of rice diurnal floret opening behavior are presented in table (box1). Users can choose species or enter the gene ID to search for specific genes, and click “Details” to view more information (box2) of the gene.

1



Choose species

or enter the gene ID

Locus ID: Example: LOC_Os03g55800

Submit Reset

Click to submit

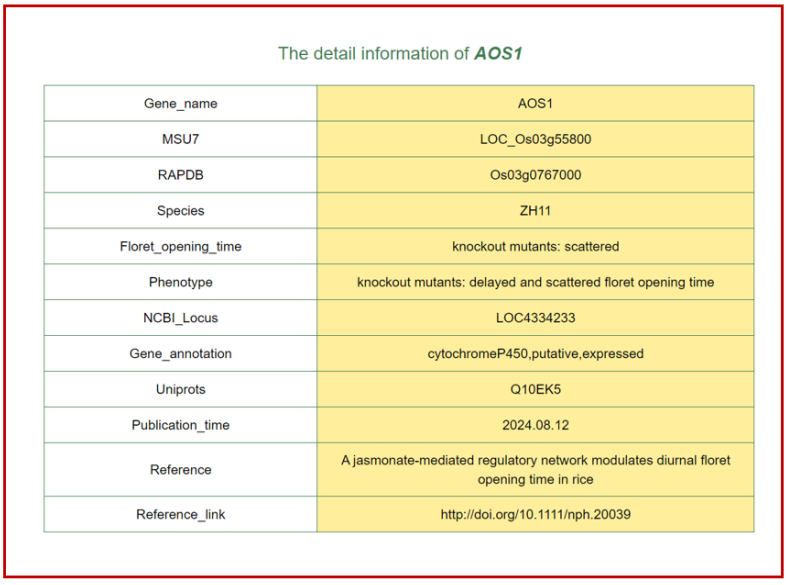
Phenotype Information

Gene_name	MSU7	Species	Floret_opening_time	Phenotype	Details
AOS1	LOC_Os03g55800	ZH11	knockout mutants: scattered	knockout mutants: delayed and scattered floret opening time	Details
SWEET4	LOC_Os02g19820	ZH11	knockout mutants: scattered	knockout mutants: delayed and scattered floret opening time	Details
MYB8	LOC_Os01g45090	ZH11	knockout mutants: peak opening time at 12:00 am in ZH11	knockout mutants: floret opening time 0.5h later in ZH11	Details
MYB8	LOC_Os01g45090	TFB	knockout mutants: peak opening time at 11:30 am in TFB	knockout mutants: floret opening time 1h later in TFB	Details
MYB8	LOC_Os01g45090	ZH11	overexpressing mutants: peak opening time:10:30-11:00 am	overexpressing mutants: (expressing OsMYB8 of TFB in ZH11 background):0.5–1 h earlier floret opening time	Details
JAR1	LOC_Os05g50890	ZH11	knockout mutants: peak opening time at 11:30 am	knockout mutants: Opened without closing	Details
OPR7	LOC_Os08g35740	ZH11	overexpressing mutants: start to bloom at 10:00 am	overexpressing mutants: 1h earlier floret opening time	Details
HAN1	LOC_Os11g29290	ZH11	knockout mutants: start to bloom at 9:00 am	knockout mutants: 2 h earlier floret opening time	Details
JAZ7	LOC_Os07g42370	ZH11	knockout mutants: start to bloom at 10:10 am	knockout mutants: 50 min earlier floret opening time	Details
			knockout mutants: start to bloom at 9:30	knockout mutants: 1.5h earlier floret	

Totally 18 results have been found.

Click to view more information of the gene

2



The detail information of ***AOS1***

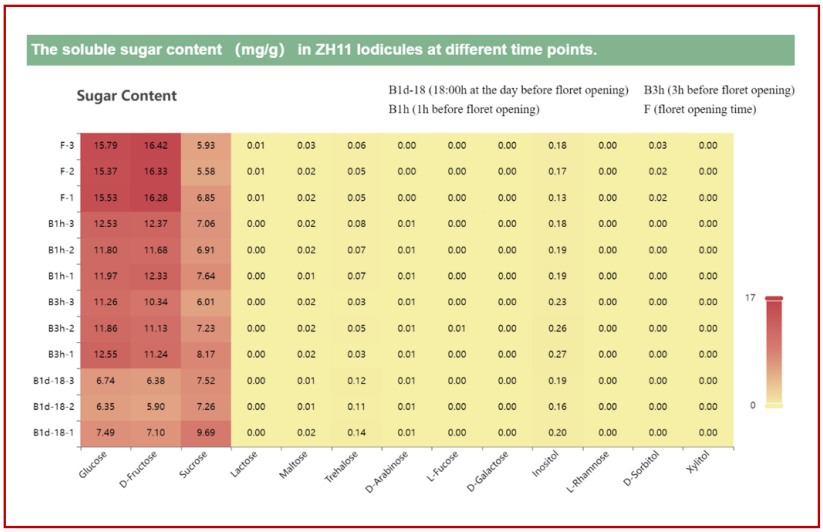
Gene_name	AOS1
MSU7	LOC_Os03g55800
RAPDB	Os03g0767000
Species	ZH11
Floret_opening_time	knockout mutants: scattered
Phenotype	knockout mutants: delayed and scattered floret opening time
NCBI_Locus	LOC4334233
Gene_annotation	cytochromeP450,putative,expressed
Uniprots	Q10EK5
Publication_time	2024.08.12
Reference	A jasmonate-mediated regulatory network modulates diurnal floret opening time in rice
Reference_link	http://doi.org/10.1111/nph.20039

Other information related to floret opening time is also displayed on the page, including figures of floret opening time of different species (box3), the soluble sugar content in ZH11 lodicules at different time points (box4), the lodicule volume and 100 pair lodicules’ water

content of TFB and ZH11 at different time points (box5), and the corresponding lodicule morphology of TFB and ZH11 at different time points (box6).

3

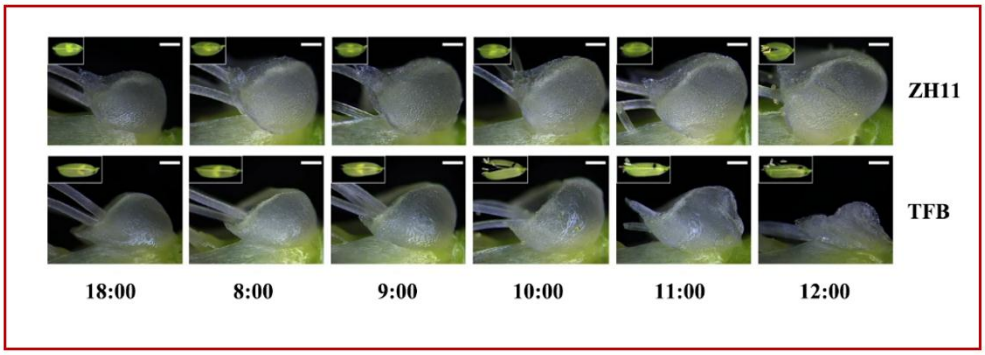
4



5

The lodicule volume and 100 pair lodicules's water content of TFB and ZH11 at different time points
The lodicule volume (mm3) of TFB and ZH11 at different time points
TFB
ZH11
1.2
1
0.8
0.6
0.4
0.2
0
18:00
8:00
9:00
10:00
11:00
12:00
13:00
100 pair lodicules's water content (mg) of TFB and ZH11 at different time points
TFB
ZH11
50
40
30
20
10
0
18:00
8:00
9:00
10:00
11:00
12:00
13:00

6


ZH11
TFB
18:00
8:00
9:00
10:00
11:00
12:00