

Supplement figures

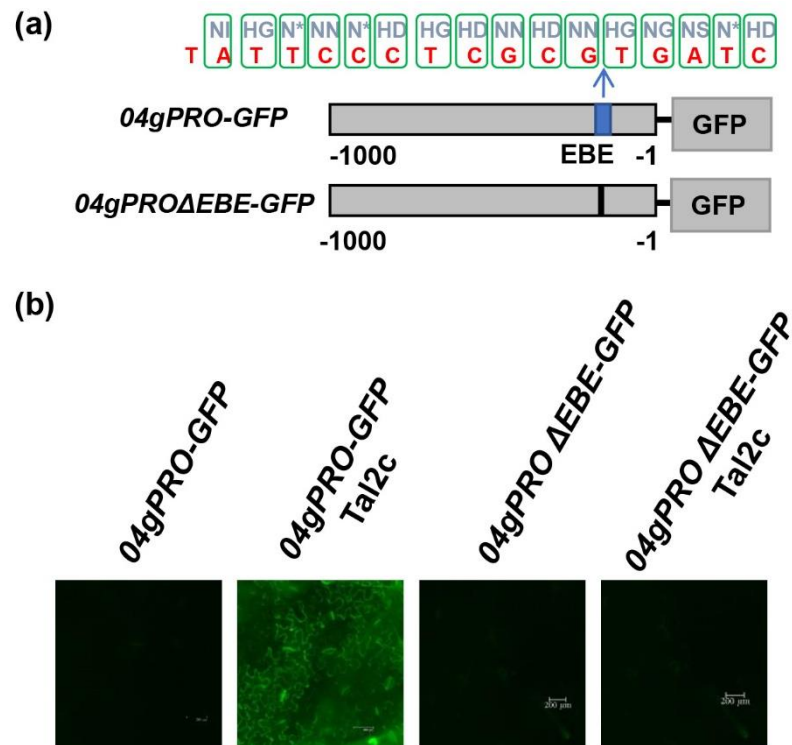


Figure S1. Tal2c directly targets the EBE in the promoter of *OsF3H_{04g}*. (A) Schematic diagram of the 1000 bp *OsF3H_{04g}* promoter and putative TAL effector binding element (EBE)-deleted promoter upstream of the translation initiation site fused with a green fluorescent protein (GFP) reporter. (B) Co-expression of Tal2c and GFP reporter derived under the *OsF3H_{04g}* promoter or EBE deletion promoter in *Nicotiana benthamiana*. The *OsF3H_{04g}* promoter- or EBE-deleted promoter-derived GFP reporter was individually expressed as a control. GFP fluorescence was scanned by laser confocal microscopy. Scale bars, 100 μ m.



Figure S2. Alignment of RVD sequences of Tal2c orthologs from different Xoc strains. The RVD sequences of the Tal2c orthologs from HGA4, B8-12, L8, BLS279, BLS256, CFBP2286, CFBP7331, and CFBP7341 were aligned. The RVDs sequences labeled in dark indicate variations.

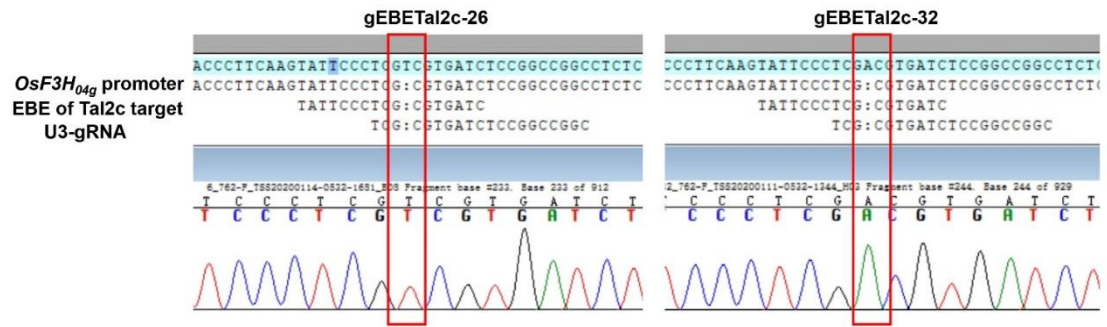


Figure S3. The blast of *OsF3H_{04g}* promoter sequences of EBE gene editing rice lines.

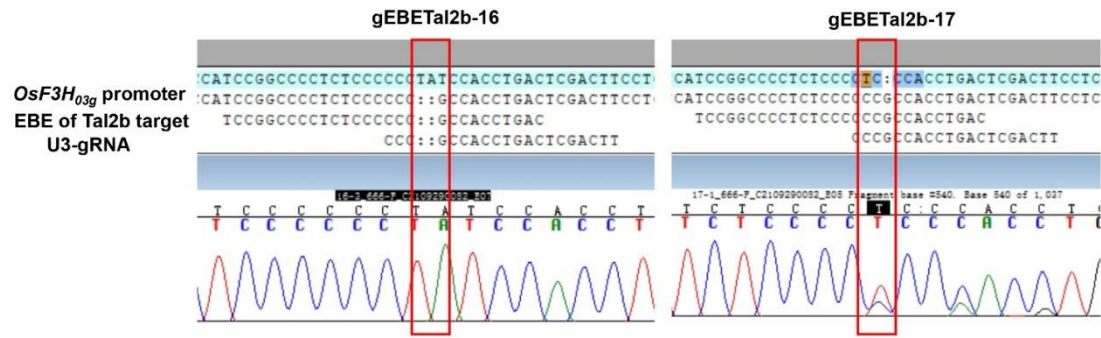


Figure S4. The blast of *OsF3H_{03g}* promoter sequences of EBE gene editing rice lines.

Table S3. The detailed list of primers used in this study.

Primer name	Gene	Forward primer (5'-3')	Reverse primer (5'-3')	Application
Tal2c-F/R	Tal2c	atgaagcttGCTCAGTCGGGGGACTATC TGAGCGAC	atggtcgacTCACTGAGGCAATAGCT CCATCAACCATGCG	Amplification
Tal2b-F2/R2	Tal2c	GGATCCCATTTCGTCCGCGCAGGC	TCAAGCGTAATCTGGAACATCGT ATGGGTACTGAGGC	Amplification
04gPRO-F/R	Os04g49194	GGCTAGTGGTTGTGAGCCCCAAC	GGGAGACGAAGCGCGAGGT	Amplification
04gPRO-ΔEBE-F/R	Os04g49194	AGAGGCCGGCCGAGATCCTTGAA GGGTGAATGCGCTACGCG	CGCGTAGCGCATTCACCCTTCAA GGATCTCCGGCCGGCCTCT	Amplification
F3H04g-OE-F/R	Os04g49194	GGCAACGACGCAGTTGCTGTC	CTACTGGCCTTTGAAGAGCTCTA GG	Amplification
EBETal2c-F/R	Os04g49194	ggcaGCCGGCCGAGATCACGCGA	aaacTCGCGTGATCTCCGGCCGGC	U3-gRNA target
EBETal2b-F/R	Os03g03034	ggcaAAGTCGAGTCAGGTGGCGGG	aaacCCCGCCACCTGACTCGACTT	U3-gRNA target
F3H04g-GD-F/R	Os04g49194	AGCATTGGTGATGCCTTTAGG	TGTGTACTGTCTCCTTGCGGAC	Amplification
F3H03g-GD-F/R	Os03g03034	GCTCGATGTGGAGGGAGACTG	TGGAGCAGTGATGACTGACTTGC	Amplification
HPT-F/R	ABY65250	GATCGTTATGTTTATCGGCACTTTG	GTACTTCTACACAGCCATCGGTC CA	Positive identification
OsACTIN-qRT-F/R	Os03g50885	CAGGCCGTCTCTCTCTGTA	ACCGATACTTGGACAG	qRT-PCR
Xoc0105-F/R	Xoc0105	CAGTTGCGTGCGTAGTTCAG	ACAGCAGTTCGATGCCTACA	qRT-PCR
F3H04g-qRT-F/R	Os04g49194	GTCACCAACCACGGGATAGC	AGTCTGATTTTCTTGATGGCTC	qRT-PCR
F3H03g-qRT-F/R	Os03g03034	GAACGCCCTCACCATCCTC	GCTCTGTATCTTCCGTTGCTTAG	qRT-PCR
DR10-qRT-F/R	Os08g05960	TCATCAAGCTGATTTATCAGACA	CGTACTTGTAGAACGCCATGGA	qRT-PCR
CYL4-qRT-F/R	Os09g02270	CCACGTCTTCGACCACTAC	CTAGGAACATCGACCAACAA	qRT-PCR
TPS19-qRT-F/R	Os04g27190	GAGTGCTATATCAATGAGCAC	ACAGATTCCCAACATTTC	qRT-PCR
HSP18.0-qRT-F/R	Os03g16030	GGTGGAGAGCTTCGATTCGA	GGACCAGATTGACGCTTTTATTT	qRT-PCR
CPS4-qRT-F/R	Os04g09900	CCCCACCTCCACTACCAATTC	AAACCCCGTCTCAGGAAAAAC	qRT-PCR
bHLH6-qRT-F/R	Os04g23550	ATTTTTCGACACCCCACTA	GCTGGACCACCTTATTATTCATC	qRT-PCR