

**S3 Table. Nucleotide sequences at the target sites in C-ERF922S1S2S3-induced To mutant rice plants**

Mutant plants	Sequence (5'-3')			Mutation type
	S1	S2	S3	
wild-type	ttccaGAC-TTCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-CCTtgggg.....ccgGCG-TCGGTGCCGATCGCCTCgcc			wt
KS123-6	ttccaGAC-T-----	-----	-----CGGTGCCGATCGCCTCgcc	S1S3: -195
KS123-8	ttccaGAC-T-----	-----	-----CGGTGCCGATCGCCTCgcc	S1S3: -195
KS123-13	ttccaGACATTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTC-CCTtgggg.....ccgGCGTCGGTGCCGATCGCCTCgcc	-----	-----CGGTGCCGATCGCCTCgcc	S1: +1, S2: -1, S3: +1
KS123-20	ttccaGAC-T-----	-----CCTtgggg.....ccgGCG-TCGGTGCCGATCGCCTCgcc	-----CGGTGCCGATCGCCTCgcc	S1S2: -168, S3: -2
KS123-25	ttccaGAC-----	.....acaGCCCCGCATGTCTCTC <b>CGCCT</b> tgggg.....ccgGCG-T-----ATCGCCTCgcc	-----CGGTGCCGATCGCCTCgcc	S1: -42, S2: -1/+2, S3: -8
KS123-33	ttccaGAC-----CTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	-----	-----CGGTGCCGATCGCCTCgcc	S1: -12, S2S3: -27
KS123-35	ttccaGAC--CCAGTGCTAGCTCTTcct.....acaGCC-----GATCGCCTCgcc	-----	-----CGGTGCCGATCGCCTCgcc	S1: -2, S2S3: -49
KS123-37	ttccaGAC <b>T</b> TTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT <b>T</b> CCTtgggg.....ccgGCGATCGGTGCCGATCGCCTCgcc	-----	-----CGGTGCCGATCGCCTCgcc	S1: +1, S2: +1, S3: +1
KS123-38	ttccaGACATTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	-----	-----CGGTGCCGATCGCCTCgcc	S1: +1, S2S3: -27
KS123-43	ttccaGAC--CCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	-----	-----CGGTGCCGATCGCCTCgcc	S1: -2, S2S3: -27
	ttcca-----	-----	-----GTGCCGATCGCCTCgcc	S1S3: -202
	ttccaGAC--CCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	-----	-----CGGTGCCGATCGCCTCgcc	S1: -2, S2S3: -27

Continued the table

KS123-46	ttccaGAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCTTCCTtgggg.....ccgGCGATCGGTGCCGATCGCCTCgcc	S1: -1, S2: +1, S3: +1
	ttccaGAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCTTCCTtgggg.....ccgGCGATCGGTGCCGATCGCCTCgcc	S1: -1, S2: +1, S3: +1
KS123-47	ttccaGAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTC---Ttgggg.....ccgGCG---GTGCCGATCGCCTCgcc	S1: -1, S2: -3, S3: -3
	ttccaGACTTCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTC---CCTtgggg.....ccgGCGTTCGGTGCCGATCGCCTCgcc	S1: +1, S2: -1, S3: +1
KS123-49	ttccaGAC-----.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: -98, S2S3: -27
	ttccaGAC-----.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: -98, S2S3: -27
KS123-50	ttccaGAC-----.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: -98, S2S3: -27
	ttccaGAC-----.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: -98, S2S3: -27
KS123-60	-----GCGGATCGCCTCgcc	S1S3: -221
	ttccaGAC-----GCTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: -11, S2S3: -27
KS123-71	ttccaGAC-T---GTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----CGGTGCCGATCGCCTCgcc	S1: -4, S2S3: -28
	ttccaGAC-T---GTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----CGGTGCCGATCGCCTCgcc	S1: -4, S2S3: -28
KS123-73	ttccaGAC-----TTcct.....acaGCCCCGCAT-----gg.....ccgGCGTTCGGTGCCGATCGCCTCgcc	S1: -15, S2: -14, S3: +1
	ttccaGAC-----TTcct.....acaGCCCCGCAT-----gg.....ccgGCGTTCGGTGCCGATCGCCTCgcc	S1: -15, S2: -14, S3: +1
KS123-81	ttccaGACTTCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTC---CCTtgggg.....-----Cgcc	S1: +1, S2: -1, S3: -30
	ttccaGACTTCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCTTCCTtgggg.....ccgGCGTCCGGTGCCGATCGCCTCCgcc	S1: +1, S2: +1, S3: +1
KS123-91	ttccaGA--TTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCT---CCTtgggg.....ccgGCG---TGCCGATCGCCTCgcc	S1: -1, S2: -4, S3: -4
	-----GTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: -16, S2S3: -27
KS123-96	ttccaGAC-TTCC-----GTGCCGATCGCCTCgcc	S1S3: -195
	ttccaGAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCTTCCTtgggg.....ccgGC---TCGGTGCCGATCGCCTCgcc	S1: -1, S2: +1, S3: -1
KS123-100	ttccaTTT-----GCCCCGCATGTCTCTCTTCCTtgggg.....ccgGCGATCGGTGCCGATCGCCTCgcc	S1: -156/+3, S2: +1, S3: +1
	ttccaGAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTC---CTtgggg.....ccgGCGATCGGTGCCGATCGCCTCgcc	S1: -1, S2: -2, S3: +1
KS123-106	ttccaGAC-----GTGCCGATCGCCTCgcc	S1S3: -199
	ttccaGAC-----GTGCCGATCGCCTCgcc	S1S3: -199
KS123-108	ttccaGAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTC---CCTtgggg.....ccgGCG---GTGCCGATCGCCTCgcc	S1: -1, S2: -1, S3: -3
	-----CTAGCTCTTcct.....acaGCCCCGCATGTCTCTC---CCTtgggg.....ccgGCG---GTGCCGATCGCCTCgcc	S1: -16, S2: -1, S3: -3

Continued the table

KS123-110	tt <u>cca</u> GAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCTTCCTtgggg..... <u>ccg</u> GCGTTCGGTGCCGATCGCCTCgcc	S1: -1, S2: +1, S3: +1
	tt <u>cca</u> GAC--TCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCTTCCTtgggg..... <u>ccg</u> GCGTTCGGTGCCGATCGCCTCgcc	S1: -1, S2: +1, S3: +1
KS123-118	tt <u>cca</u> GACATTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGT-----CGCCTCgcc	S1: +1, S2S3: -44
	tt <u>cca</u> GACATTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: +1, S2S3: -27
KS123-123	tt <u>cca</u> GAC-TTCCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-CCTtgggg..... <u>ccg</u> GCG-TCGGTGCCGATCGCCTCgcc	wt
	tt <u>cca</u> GACTTTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCTTCCTtgggg..... <u>ccg</u> GCG----TGCCGATCGCCTCgcc	S1: +1, S2: +1, S3: -4
KS123-136	tt <u>cca</u> GACTTTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTCTCT-----TCGGTGCCGATCGCCTCgcc	S1: +1, S2S3: -27
	tt <u>cca</u> GACTTTCAGTGCTAGCTCTTcct.....acaGCCCCGCATGTCTC-----CTtgggg..... <u>ccg</u> GCG----TGCCGATCGCCTCgcc	S1: +1, S2: -4, S3: -4

The mutated alleles are shown below the wild-type sequence. The distance between ERF922-S1 and ERF922-S2 is 135-bp and distance between ERF922-S2 and ERF922-S3 is 21-bp (the black apostrophes indicate nucleotides are not shown in). The target sites nucleotides are shown in black capital letters and black dashes. The red capital letters indicate inserted nucleotides and the apostrophe followed to red capital letters indicates inserted nucleotides are not shown in. The PAM site nucleotides are underlined. The red dashes indicate the deleted nucleotides. “-” and “+” indicate deletion and insertion of the indicated number of nucleotides, respectively “-/+” indicates simultaneous deletion and insertion of the indicated number of nucleotides. S1: ERF922-S1; S2: ERF922-S2; S3: ERF922-S3; S1S2: between ERF922-S1 and ERF922-S2; S2S3: between ERF922-S2 and ERF922-S3; S1S3: between ERF922-S1 and ERF922-S3; wt: wild-type sequence.