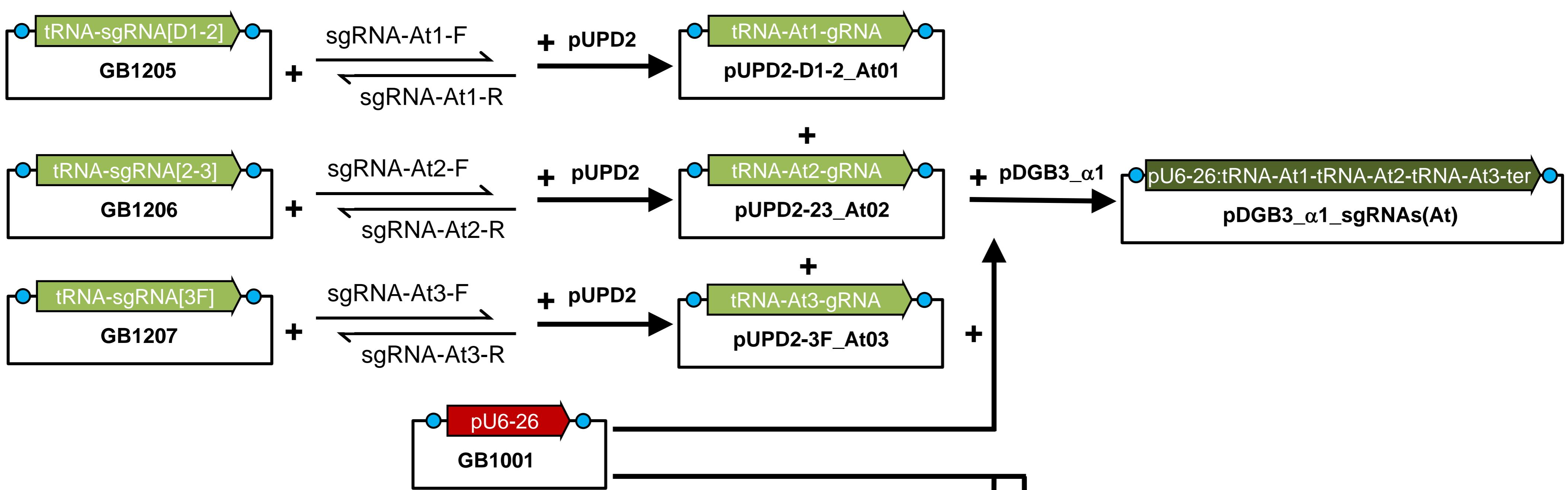


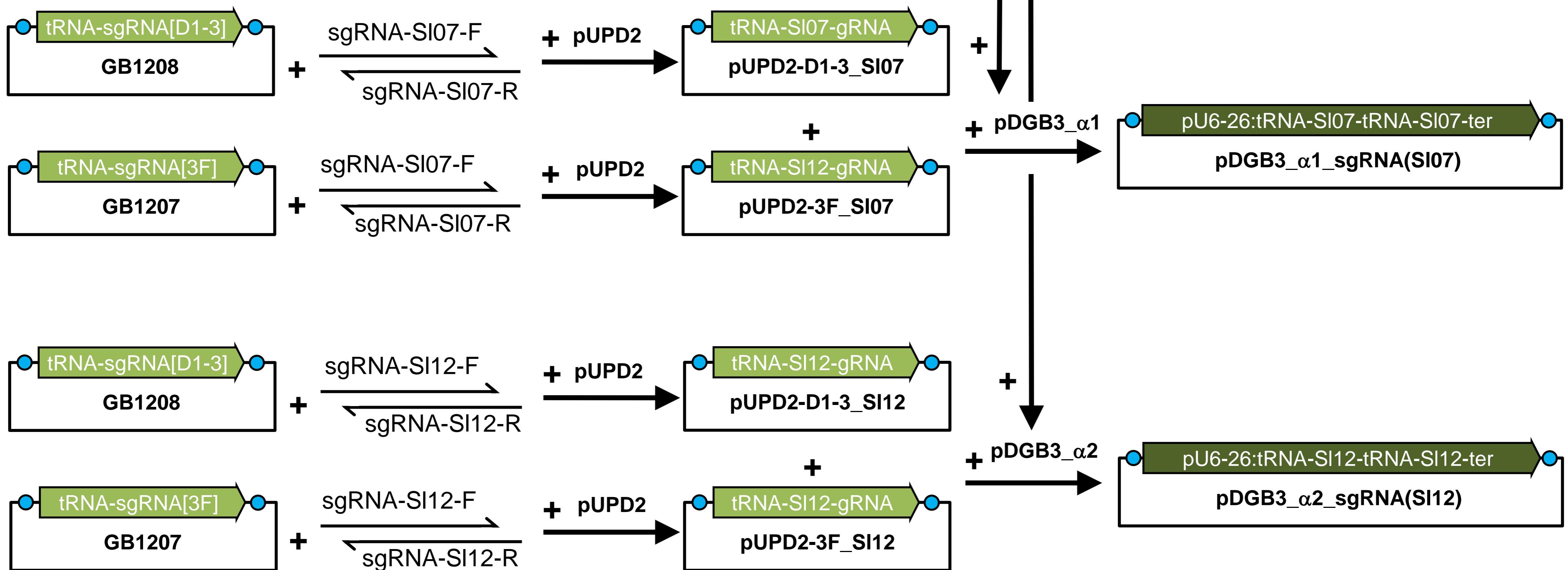
Supplemental Figure 1: Phylogenetic analysis for the identification of the *IAMT1* orthologs candidates in *Solanum Lycopersicum*. Only genes *Solyc07g64990* and *Solyc12g14500* were grouped with the other plant *IAMT1* (*Brassica rapa*: *LOC103844968*; *Medicago truncatula*: *Medtr3g054330*).

sgRNA cloning (multiplexing)

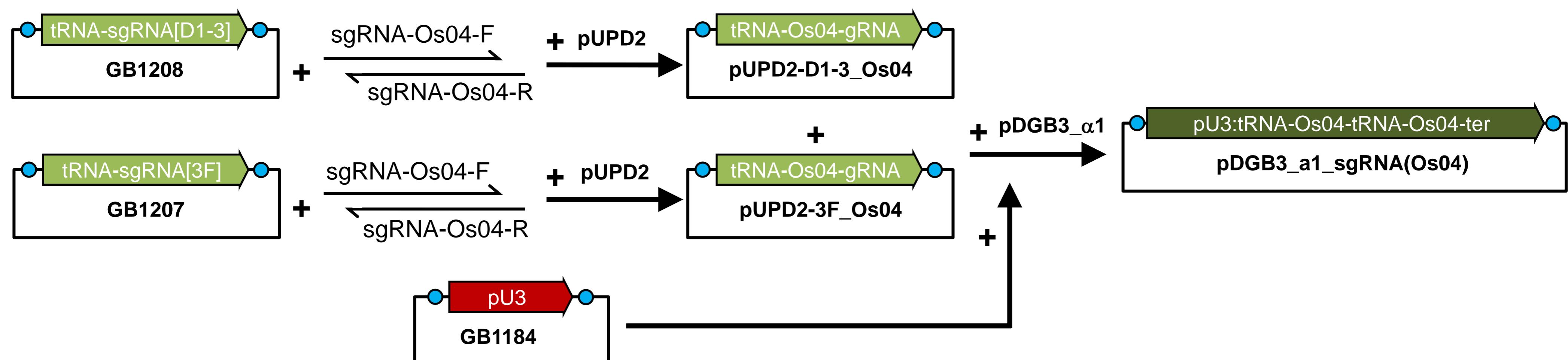
Arabidopsis thaliana



Solanum Lycopersicum

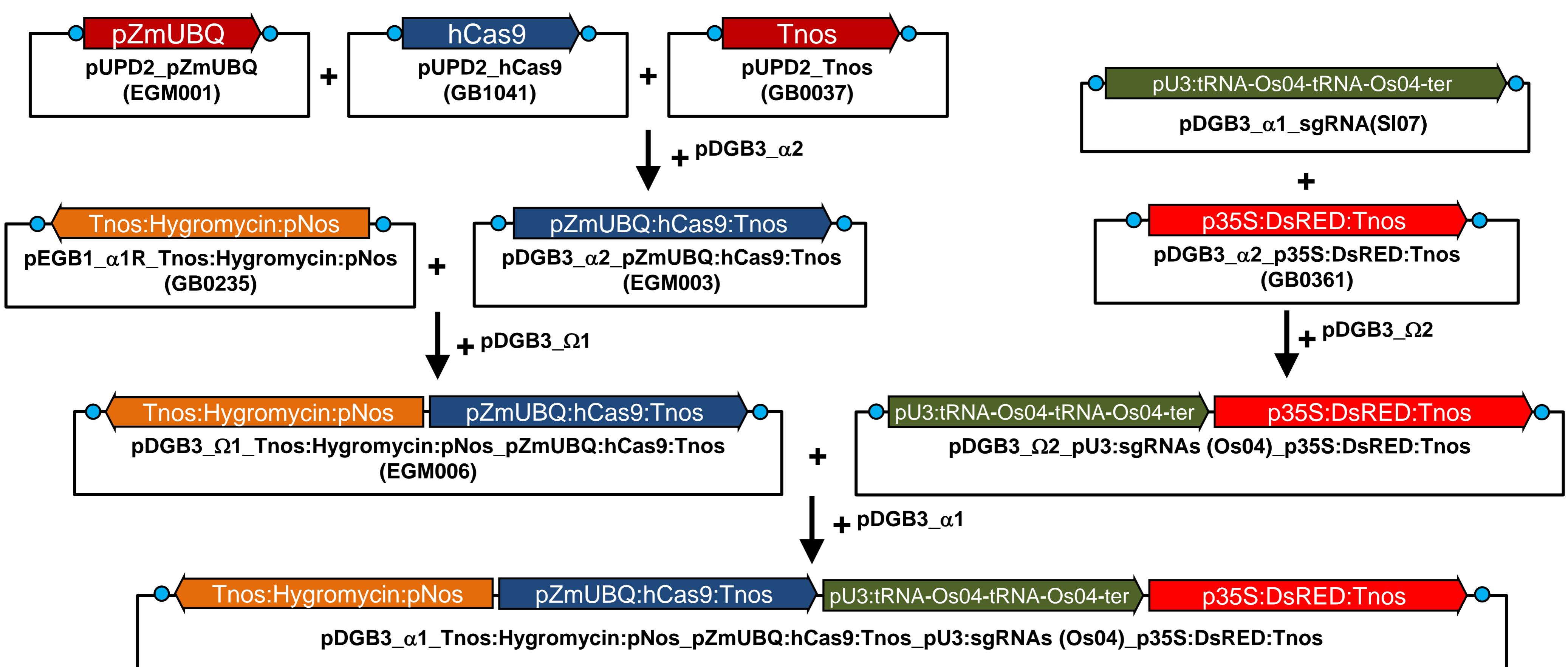


Oryza sativa

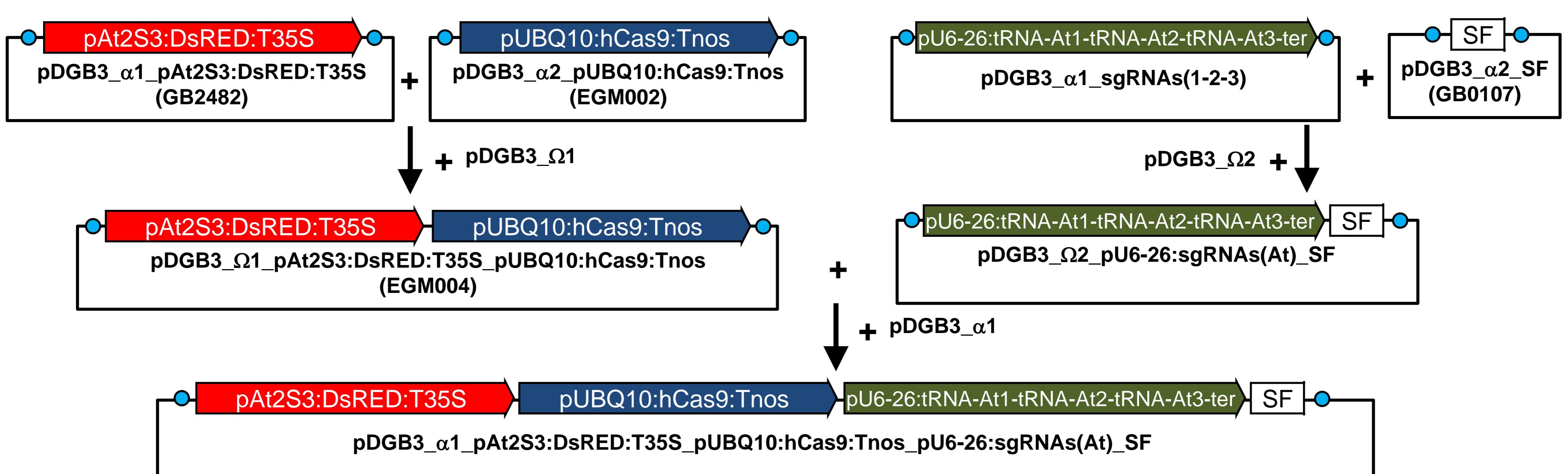


Supplemental Figure 2. Sequential steps for sgRNA cloning (multiplexing) and generation of sgRNA transcriptional units in pDGB3 vectors.

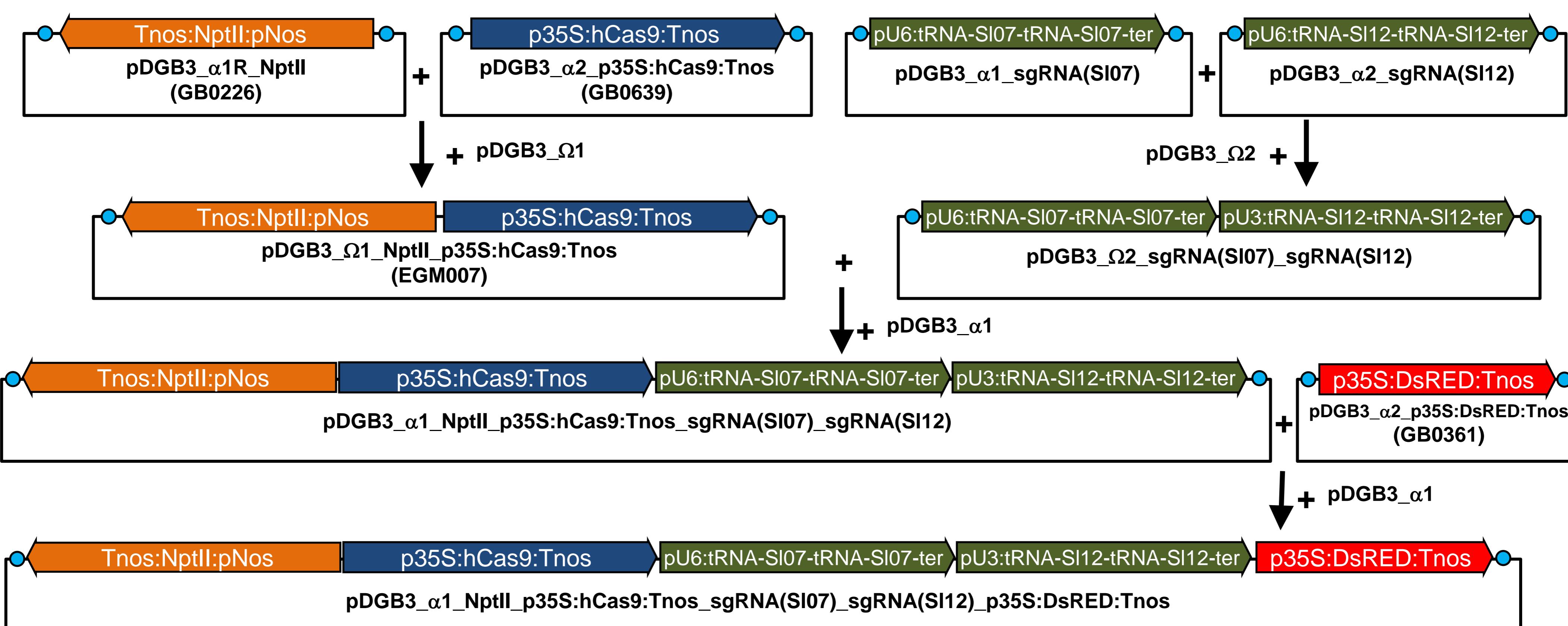
Oryza sativa Cloning Strategy



Arabidopsis thaliana Cloning Strategy

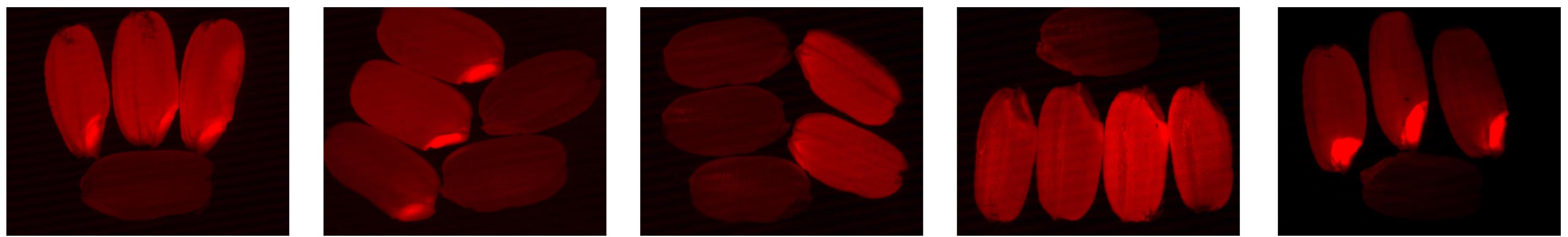


Solanum lycopersicum Cloning Strategy



Supplemental Figure 3. Sequential steps to assemble all transcriptional units needed for each final vector for plant transformation.

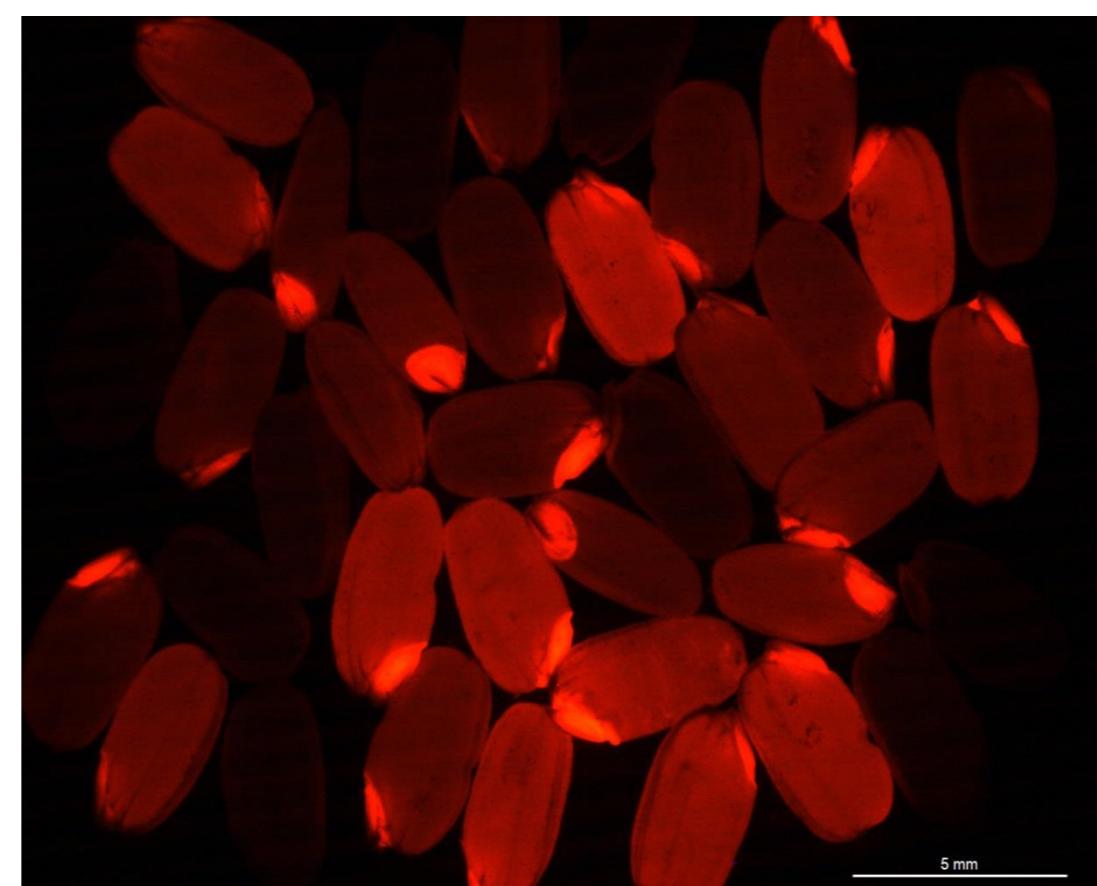
Rice Line 1 Rice Line 3 Rice Line 4 Rice Line 5 Rice Line 8



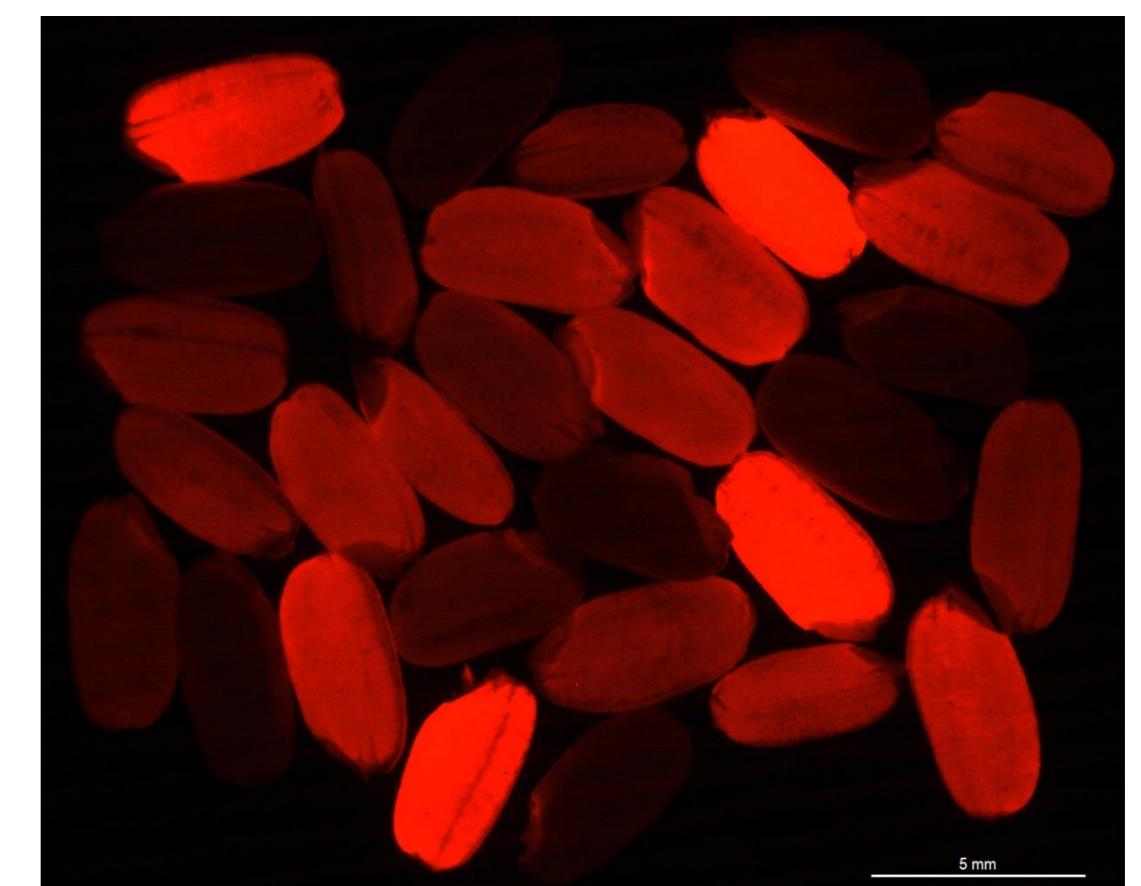
Rice Line 14



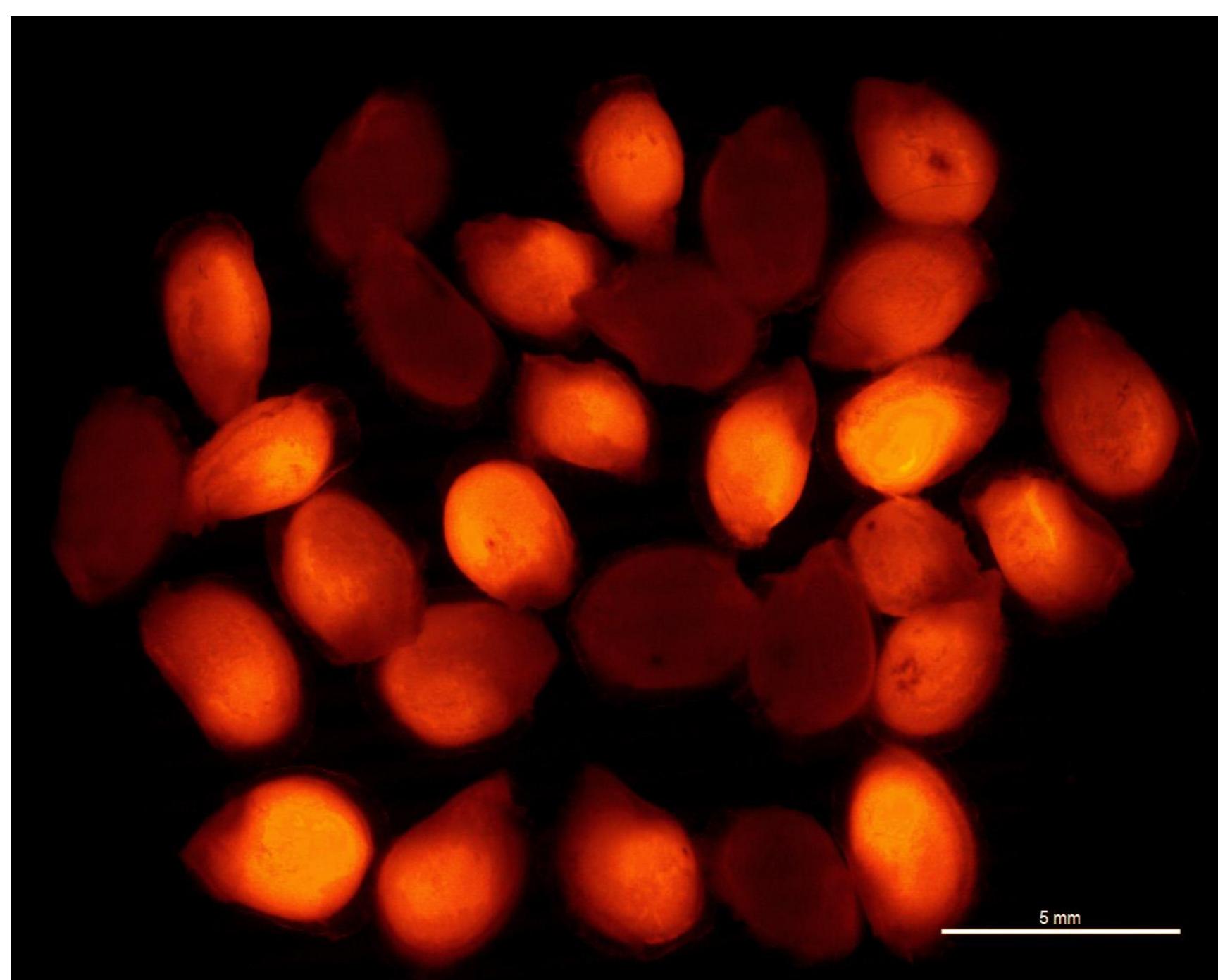
Rice Line 16



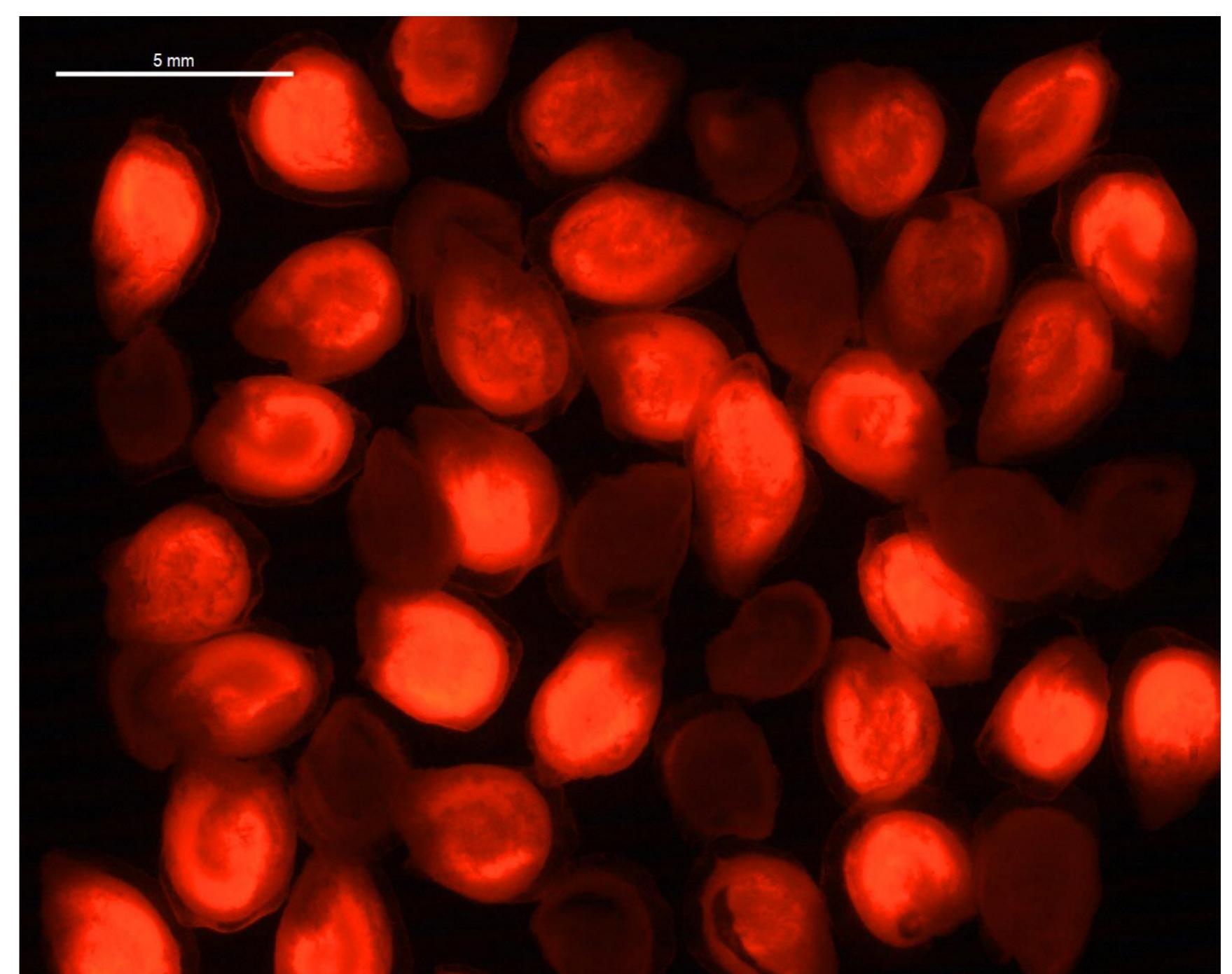
Rice Line 18



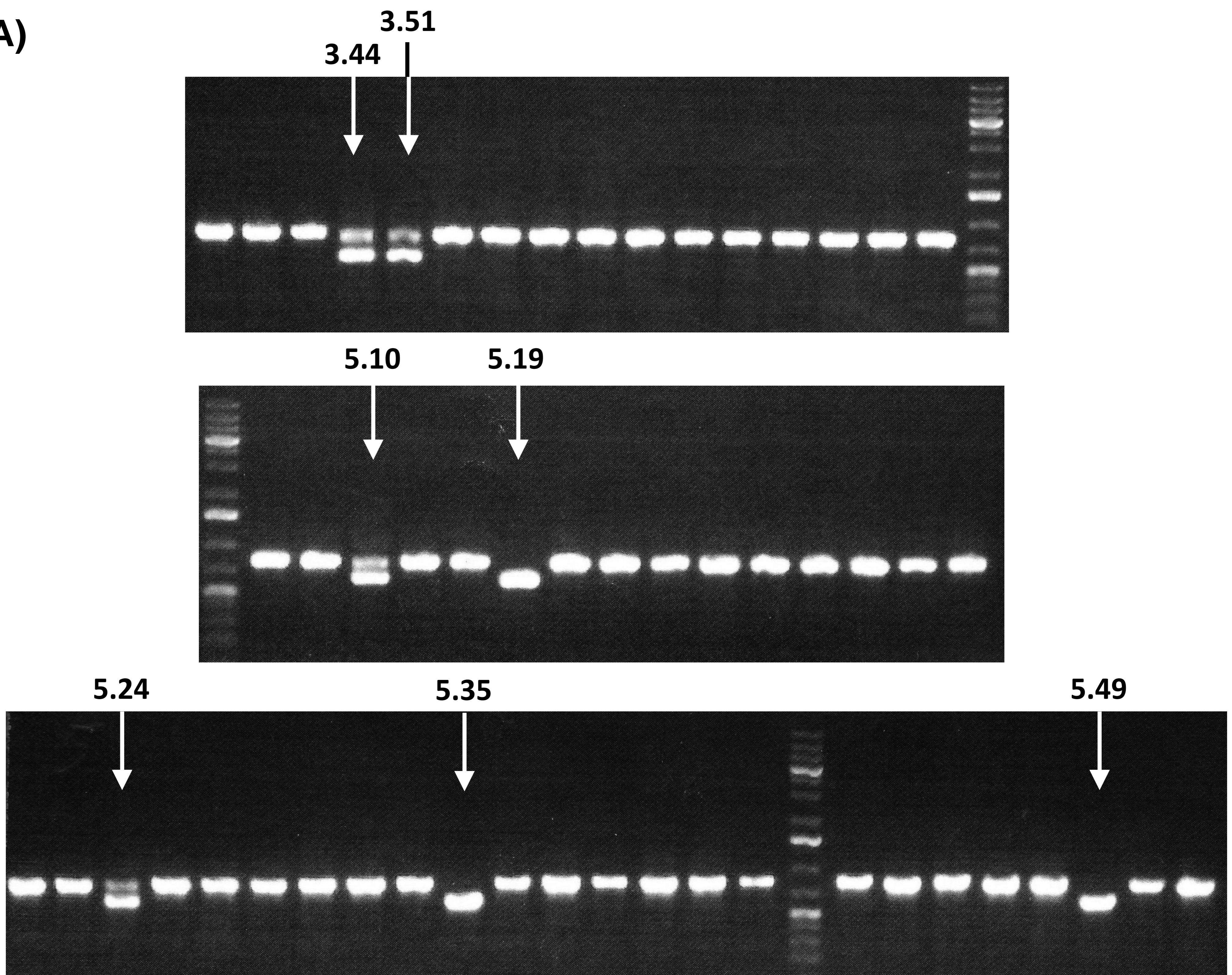
Tomato Line 4



Tomato Line 6



Supplemental Figure 4. DsRED signal in T2 segregants seeds from different independent lines of rice and tomato. We observed a similar embryo homogeneous pattern of DsRED signal in all tomato lines. In rice, DsRED signal can be observed in embryo and/or endosperm, and we have observed differences in the pattern of DsRED signal in different lines.

(A)**(B)**

		Target 1
wt	TGTTTTGCATGAATAATCAGTATATAACAAATATGTACGCAATGGCACATTAAATAATGTTCCCCATTCAACTAAATTCATACATTAT	
del193	TGTTTTGCATGAATAATCAGTATATAACAAATATGTACGCAATGGCACATTAAATAATGTTCCCCATTCAACTAAATTCATACATTAT	
del240	TGTTTTGCATG	
		Target 2
wt	CATTCATCTCTTGTCCCTTTCCCTATATATATGT	GTCGTCTCCTCGAGCTTGTCTATTACAAAAAGAAGGTGTAGAGAAAGTTAAAGA
del193	CATTCATCTCTTGTCCCTTTCCCTATATATATGT	GTCGTCTCCTCGAGCTTGTCTATTACAAAAAGAAGGTGTAGAGAAAGTTAAAGA
del240		
		Target 3
wt	GAGAAGGAGAGATCCATAGAGAAAGAGAAATGGGTTCTAACGGGAGAACAGTTGCTGTATGTAACATGAAGCTCGAGAGACTTCTCAG	
del193	GAGAAGGAGAGATCCATAGAGAAAGAGAAATGGGTTCTA	TGGATC
del240		TAACATGAAGCTCGAGAGACTTCTCAG
		Target 4
wt	CATGAAAGGTGGCAAAGGACAAGACAGCTACGCCAATAACTCTCAAGCTCAG	GTCTGTACATCTATTTTTCTAATTACTAAAAGTT
del193		
del240	CATGAAAGGTGGCAAAGGACAAGACAGCTACGCCAATAACTCTCAAGCTCAG	GTCTGTACATCTATTTTTCTAATTACTAAAAGTT
		Target 5
wt	CCATAAAAAGCCTTCTTATTCTATTCTATCTCGAGTGATAAATTGGAAATTAAAGTGAAGGGACTGTGCTCAAGATTGGCAAG	
del193		TTGGGAATTAAAGTGAAGGGACTGTGCTCAAGATTGGCAAG
del240	CCATAAAAAGCCTTCTTATTCTATTCTATCTCGAGTGATAAATTGGAAATTAAAGTGAAGGGACTGTGCTCAAGATTGGCAAG	

Supplemental Figure 5. A) Detection of big deletions in *Arabidopsis*. Agarose electrophoresis of PCR amplification of *IAMT1* sgRNA target genomic region from T2 plants of *Arabidopsis* lines 3 (del240) and 5 (del193). White arrows mark the lanes showing a lower size band, indicating the presence of a big deletion. In a few cases a doble band is observed, which indicates an heterozygous individual for the deletion. B) Sequence alignment of deletions "del193" and "del240". In red 5'UTR, in blue first exon, in light green first intron and deleted sequence is indicated with dark green dashes. In del193 6 nucleotides "TGGATC" (in orange) are inserted between deletion limits that did not correspond with anything in deleted sequence though interestingly it corresponds with a sequence in the 5'UTR but in inverted orientation (orange line). CRISPR targets are indicated by red lines and PAM with green line.

Supplemental Table 1. Selected CRISPR target sequences.

Gene	Target	Sequence - PAM	
At IAMT1 (At5g55250)	sgRNA-1	TGTATGAATTAGTTGAATG	GGG
At IAMT1 (At5g55250)	sgRNA-2	AGAAAGAGAATGGGTTCTAA	GGG
At IAMT1 (At5g55250)	sgRNA-3	GAGAGACTTCTCAGCATGAA	AGG
Solyc07g64990	sgRNA-07	AGCCACCGGACAAGAGCCGC	CGG
Solyc12g14500	sgRNA-12	AATCAGCTGCACTCCGTCAA	GGG
Os04g56950	sgRNA-04	TCACTTCTGGAGGAGACAC	TGG

Supplemental Table 2. GB parts generated in this study. Sequences are accessible at GB cloning website using the GB database ID.

Gbparts generated in this study		
GB database ID	Name	Category
EGM001	<i>Zea Mays</i> UBQ promoter	PROM+5'UTR
EGM002	pAtUBQ10::hCas9::Tnos	TU
EGM003	pZmUBQ::hCas9::Tnos	TU
EGM004	pAt2S3::DsRED::T35S pAtUBQ10::hCas9::Tnos	MODULE
EGM005	pAt2S3::DsRED::T35S pAtUBQ10::hCas9::Tnos_SF	MODULE
EGM006	Tnos:Hygromycin:pNos pZmUBQ:hCAS9:Tnos	MODULE
EGM007	NptII(Kan ^R)_p35S:hCas9Tnos	MODULE

Supplemental Table 3. GB parts used in this study. Sequences are accessible at GB cloning website using the GB database ID.

Gbparts used in this study		
GB database ID	Name	Category
GB0030	<i>CaMV 35S</i>	PROM+5'UTR
GB0037	<i>Tnos</i>	3'UTR+TERM
GB1041	<i>hCas9</i>	CDS
GB1001	pAtU6-26 (PROM DPolIII)	PROM
GB1184	pOsU3 (PROM MPolIII)	PROM
GB2478	<i>A.thaliana UBQ10</i>	PROM+5UTR
GB1205	tRNA-gRNA position [D1_2]	Multiplexing (level -1)
GB1206	tRNA-gRNA position [2_3]	Multiplexing (level -1)
GB1207	tRNA-gRNA position [3F]	Multiplexing (level -1)
GB1208	tRNA-gRNA position [D1_3]	Multiplexing (level -1)
GB1209	tRNA-gRNA position [M1_2]	Multiplexing (level -1)
GB1210	tRNA-gRNA position [M1_3]	Multiplexing (level -1)
GB0107	pCambia_a2_SF	TU
GB0211	Hygromycin resistance	TU
GB0226	Kanamycin resistance (NptII)	TU
GB0361	<i>p35S::DsRED::Tnos</i>	TU
GB0639	<i>p35S::hCas9::Tnos</i>	TU
GB2482	<i>pAt2S3::DsRED::T35S</i>	TU

Supplemental Table 4. Primers used in this work.

Primer	Sequence
GB_PromZmUBIQ_for1	GCCGTCTCGCTCGGGAGGCATGCCTGCAGTCAGCGT
GB_ZmUBIQ_rev1	GCCGTCTCGCTCACATTGTGAAGGGGGCGGCCGCGGA
sgRNA-At1-F	GTGCAGAGAGACTTCTCAGCATGAA
sgRNA-At1-R	AAACTTCATGCTGAGAAGTCTCTCT
sgRNA-At2-F	GTGCAAGAAAGAGAATGGGTTCTAA
sgRNA-At2-R	AAACCTAGAACCCATTCTCTTTCTT
sgRNA-At3-F	GTGCATGTATGAATTAGTTGAATG
sgRNA-At3-R	AAACCATTCAACTAAATTACATACAT
sgRNA-SI07-F	GTGCAAGCCACCGGACAAGAGGCCGC
sgRNA-SI07-R	AAACCGGGCTCTGTCCGGTGGCTT
sgRNA-SI12-F	GTGCAAATCAGCTGCACCTCGTCAA
sgRNA-SI12-R	AAACTTGACGGAGTGCAGCTGATT
sgRNA-Os04-F	GTGCATCACTTCTGGAGGAGACAC
sgRNA-Os04-R	AAACGTGTCTCCTCCAGAAAGTGAT
gAtIAMT1-F	ACCTACAGTGCACAAAATGACA
gAtIAMT1-R	CTTGCCAATCTTGAGCACAGTC
gSI07-64990_F	TGGCACCTTAGGAGACAATAATAACA
gSI07-64990_R	AACCAGGAACTCCGGCGGCGAAA
gSI12-14500_F	GCATGAAAGGAGGCAAAGGTGAAGC
gSI12-14500_R	CGCCGGAAATAGTCGCCGGTAAA
Os04g56950_F	GGATCTGAACCTGAACCCTTGCT
Os04g56950_R	TTGCTGGGAGGTCGGAGAA
g_hCas9_For	GGCGGAGCAAGCCAGGAGGAA
g_hCas9_Rev	CTTGACAGCCGCCCATCCT

Supplemental Table 5. Genotype and mutations of the tomato T2 plants used in this work.

<i>Solanum Lycopersicum</i>							
Line	Plant	Solyc07g64990			Solyc12g14500		
		Genotype		Mutation	Genotype		Mutation
1	1		wt		Mut. hom		del4
	2		wt		bi-allelic		del4/+1(T)
	3		wt		Mut. hom		del4
	4		wt		Mut. hom		del4
	5		wt		bi-allelic		del4/+1(T)
	6		wt		bi-allelic		del4/+1(T)
	7		wt		bi-allelic		del4/+1(T)
	8		wt		bi-allelic		del4/+1(T)
3	1	het		wt/del3	bi-allelic		-1(A)/-1(C)
	2	het		wt/del3	bi-allelic		-1(A)/-1(C)
	3		wt		Mut. hom		-1(A)
	4		wt		Mut. hom		-1(A)
	5	het		wt/del3	bi-allelic		-1(A)/-1(C)
	6		wt		bi-allelic		-1(A)/-1(C)
	7	Mut. Hom		del3	Mut. hom		-1(A)
	8	Mut. hom		del3	Mut. hom		-1(C)
4	1		wt		Mut. hom		-1(A)
	2		wt		Mut. hom		del6
	3		wt		bi-allelic		del6/-1(A)
	4		wt		bi-allelic		del6/-1(A)
	5		wt		Mut. hom		del6
	6		wt		Mut. hom		-1(A)
	7		wt		bi-allelic		del6/-1(A)
6	1		wt			wt	
	2		wt			wt	
	3		wt			wt	
	4		wt			wt	
	5		wt			wt	
	6		wt			wt	
Total	29	2	3	24	11	12	6

Supplemental Table 6. Genotype and mutations of the rice T2 plants used in this work.

<i>Oryza sativa</i> (Os04g56950)					
Line	Plant	Genotype			Mutation
1	1	Mut. hom			-1(A)
	2			bi-allelic	-1(A)/-1(C)
3	1			bi-allelic	-1(A)/+1(G)
	2	Mut. hom			+A
4	1	Mut. hom			+A
	2	Mut. hom			+A
	3	Mut. hom			+A
5	1	Mut. hom			+A
	2			bi-allelic	+A/+T
	3	Mut. hom			+A
6	1			bi-allelic	+A/+T
	2	Mut. hom			+A
	3	Mut. hom			+T
8	1			bi-allelic	+G/+C
9	1	Mut. hom			+G
	2	Mut. hom			+C
	3	Mut. hom			+A
10	1	Mut. hom			+A
	2	Mut. hom			+A
	3	Mut. hom			-2(CA)
12	1			bi-allelic	-1(A)/-2(GA)
14	1			bi-allelic	-1(A)/-2(GA)
	2	Mut. hom			-2(GA)
	3			bi-allelic	+A/+T
16	1	Mut. hom			"A" > "TT"
17	1	Mut. hom			+A
18	1	Mut. hom			+A
	3			wt	
20	1		het		wt/-2(GA)
	2		het		wt/+A
	3	Mut. hom			+G
Total	31	20	2	8	1

Supplemental Table 7. Genotype and mutations of the arabidopsis T2 plants from Line 1 used in this work.

Arabidopsis thaliana (At5g55250)														
Line	Plant	Target 1			Target 2			Target 3			Genomic Region Genotype			
		Genotype		Mutation	Genotype		Mutation	Genotype		Mutation				
1	2		wt			wt			wt				wt	
	3		wt		Mut. hom			+1(C)			wt		Mut. hom	
	4		wt			wt			wt				wt	
	5		wt			wt			wt				wt	
	6		wt		het		wt/+1(T)		het		wt/-1(A)		het	
	7		wt	Mut. hom			+1(A)			wt		Mut. hom		
	9		wt	Mut. hom			+1(A)			wt		Mut. hom		
	11		wt			wt		Mut. hom			+1(T)	Mut. hom		
	12		wt			wt			wt				wt	
	13		wt			wt			wt				wt	
	14		wt			wt			wt				wt	
	15		wt			wt		het			wt/+1(T)		het	
	16		wt			wt			wt				wt	
	18		wt			wt	Mut. hom			+1(T)	Mut. hom			
	19		wt			wt			wt				wt	
	20		wt			wt			wt				wt	
	21		wt			wt			wt				wt	
	22		wt			wt			wt				wt	
	25		wt			wt		het			wt/+1(T)		het	
	28		wt			wt			wt				wt	
	29		wt			wt			wt				wt	
	30		wt			wt			wt				wt	
	31		wt			wt	Mut. hom			+1(T)	Mut. hom			
	32		wt			wt			wt				wt	
	34		wt			wt			wt				wt	
	35		wt			wt			wt				wt	
	36		wt			wt			wt				wt	
	37		wt			wt			wt				wt	
	38		wt	Mut. hom			+1(A)			wt		Mut. hom		
	39		wt		het		wt/+1(G)			wt			het	
	42		wt	Mut. hom			+1(A)			wt		Mut. hom		
	43		wt			wt			wt				wt	
	44		wt			wt			wt				wt	
Total	33	0	0	33		5	2	26	3	3	27	8	4	21

Supplemental Table 8. Genotype and mutations of the arabidopsis T2 plants from Line 2 used in this work.

Arabidopsis thaliana (At5g55250)														
Line	Plant	Target 1			Target 2			Target 3			Genomic Region Genotype			
		Genotype		Mutation	Genotype		Mutation	Genotype		Mutation				
2	1		wt			wt			wt				wt	
	2		wt			wt			wt				wt	
	3		wt			wt		Mut. hom		+1(T)	Mut. hom			
	4		wt			wt			wt				wt	
	5		wt			wt			wt				wt	
	6		wt			wt			wt				wt	
	7		wt			wt			wt				wt	
	8		wt			wt			wt				wt	
	9		wt			wt		het		wt/+1(T)		het		
	10		wt			wt			wt				wt	
	11		wt			wt			wt				wt	
	12		wt		het		wt/-2		wt			het		
	13		wt		het		wt/-2		wt			het		
	14		wt			wt			wt				wt	
	15		wt			wt		Mut. hom		+1(T)	Mut. hom			
	16		wt			wt			wt				wt	
	17		wt			wt		Mut. hom		+1(T)	Mut. hom			
	18		wt			wt			het		wt/+1(T)	het		
	19		wt			wt			wt				wt	
	20		wt			wt		Mut. hom		+1(T)	Mut. hom			
	21		wt			wt			wt				wt	
	22		wt		het		wt/+1(C)		wt			het		
	24		wt			wt			het		wt/+1(T)	het		
	25		wt			wt			het		wt/+1(A)	het		
	26		wt			wt				wt			wt	
	27		wt			wt				wt			wt	
	28		wt			wt		Mut. hom		+1(T)	Mut. hom			
	29		wt			wt			wt				wt	
	30		wt			wt			wt				wt	
	31		wt			wt			wt				wt	
	32		wt			wt			wt				wt	
	33		wt			wt		Mut. hom		+1(T)	Mut. hom			
	34		wt			wt			wt				wt	
	35		wt			wt			wt				wt	
	36		wt			wt		Mut. hom		+1(T)	Mut. hom			
	37		wt			wt		Mut. hom		+1(T)	Mut. hom			
	38		wt			wt			wt				wt	
	39		wt			wt			wt				wt	
	40		wt			wt		Mut. hom		+1(T)	Mut. hom			
	41		wt			wt			wt				wt	
	42		wt			wt			wt				wt	
	43		wt			wt		Mut. hom		+1(T)	Mut. hom			
	44		wt			wt			wt				wt	
	45		wt	bi-allelic		-1(C)/+1(T)			wt			het		
	46		wt			wt			wt				wt	
	47		wt			wt			het		wt/+1(T)	het		
	48		wt			wt			wt				wt	
	49		wt			wt		Mut. hom		+1(T)	Mut. hom			
	50		wt			wt			wt				wt	
	51		wt			wt			het		wt/+1(T)	het		
	52		wt			wt		Mut. hom		+1(T)	Mut. hom			
	53		wt			wt			wt				wt	
	54		wt			wt		Mut. hom		+1(T)	Mut. hom			
	55		wt			wt			wt				wt	
	56		wt			wt			wt				wt	
	57		wt			wt			het		wt/+1(T)	het		
	58		wt			wt		Mut. hom		+1(T)	Mut. hom			
	59		wt			wt		Mut. hom		+1(T)	Mut. hom			
	60		wt			wt			het		wt/+1(T)	het		
	61		wt			wt		Mut. hom		+1(T)	Mut. hom			
	62		wt			wt			wt				wt	
Total	61	0	0	61		0	4	57	16	8	37	16	12	33

Supplemental Table 9. Genotype and mutations of the arabidopsis T2 plants from Line 3 used in this work.

Arabidopsis thaliana (At5g55250)															
Line	Plant	Target 1			Target 2			Target 3			Genomic Region Genotype				
		Genotype		Mutation	Genotype		Mutation	Genotype		Mutation					
3	1		wt			wt			wt				wt		
	2		wt			wt			wt				wt		
	3		wt			wt			wt				wt		
	4		wt			wt			wt				wt		
	5		wt			wt			wt				wt		
	6		wt			wt		Mut. hom		+1(T)	Mut. hom				
	7		wt			wt			wt				wt		
	8		wt			wt			wt				wt		
	9		wt			wt			wt				wt		
	10		wt			wt			wt				wt		
	11		wt		het		wt/+1(C)		wt		het				
	12		wt			wt			wt				wt		
	13		wt			wt			wt				wt		
	14		wt			wt			wt				wt		
	15		wt			wt			wt				wt		
	16		wt			wt			wt				wt		
	17		wt			wt		het		wt/+1(T)		het			
	18		wt			wt			wt				wt		
	19		wt			wt			wt				wt		
	20		wt			wt		het		wt/+1(T)		het			
	21		wt			wt			wt				wt		
	22		wt			wt			wt				wt		
	23		wt			wt		het		wt/+1(T)		het			
	24		wt			wt			wt				wt		
	26		wt			wt		het		wt/+1(T)		het			
	27		wt		het		wt/+1(T)		wt			het			
	28		wt			wt		Mut. hom		+1(T)	Mut. hom				
	29		wt			wt			het		wt/+1(T)	het			
	30		wt			wt			wt				wt		
	31		wt			wt			wt				wt		
	32		wt			wt			wt				wt		
	33		wt			wt			wt				wt		
	34		wt			wt			wt				wt		
	35		wt	Mut. hom			+1(T)		het		wt/+1(T)	het			
	37		wt			wt			het		wt/+1(T)	het			
	38		wt			wt				wt			wt		
	39		wt			wt				wt			wt		
	40		wt			wt				wt			wt		
	41		wt			wt				wt			wt		
	42		wt			wt			het		wt/+1(T)	het			
	43		wt			wt				wt			wt		
	44	het		wt/del240		het		wt/del240		wt		het			
	45		wt			wt				wt			wt		
	51	het		wt/del240		het		wt/del240		wt		het			
Total	44	0	2	42		1	4	39		2	8	34	2	12	30

Supplemental Table 10. Genotype and mutations of the arabidopsis T2 plants from Line 5 used in this work.

Arabidopsis thaliana (At5g55250)												
Line	Plant	Target 1			Target 2			Target 3			Genomic Region Genotype	
		Genotype		Mutation	Genotype		Mutation	Genotype		Mutation		
5	1		wt		het		wt/+1(A)	het		wt/+1(T)	het	
	2		wt		het		wt/+1(T)	het		wt/+2(TT)	het	
	3		wt		wt				wt		wt	
	4		wt		wt				wt		wt	
	5		wt		wt			Mut. hom		del4	Mut. hom	
	6		wt		wt				wt			wt
	7		wt		wt				het	wt/+2(TT)	het	
	8		wt		wt				het	wt/+1(T)	het	
	9		wt		wt				wt			wt
	10		wt		bi-allelic		+1(A)/ del193	bi-allelic		+1(T) / del193	het	
	11		wt		het		wt/-1(C)	het		wt/+1(T)	het	
	12		wt		wt				het	wt/del4	het	
	13		wt		bi-allelic		+1(A)/+1(C)	het		wt/+1(T)	het	
	14		wt				wt	Mut. hom		+1(T)	Mut. hom	
	15		wt				wt			wt		wt
	16	het		wt/del3			wt			wt		het
	17		wt				wt			wt		wt
	18		wt				wt			wt		wt
	19		wt		Mut. hom		del193	Mut. hom		del193	Mut. hom	
	20		wt				wt	Mut. hom		del4	Mut. hom	
	21		wt				wt	Mut. hom		+1(T)	Mut. hom	
	22		wt				wt			wt		wt
	23		wt				wt			wt		wt
	24		wt		bi-allelic		+1(A)/ del193	bi-allelic		+1(T) / del193	het	
	25		wt				wt			wt		wt
	26		wt				wt			wt/+2(TT)	het	
	27		wt				wt	Mut. hom			Mut. hom	
	28		wt				wt			wt/del4	het	
	29		wt				wt			wt/del4	het	
	30		wt				wt			wt/del4	het	
	31		wt				wt			wt/del4	het	
	32		wt				wt			wt		wt
	33		wt				wt			wt		wt
	34		wt				wt			wt		wt
	35		wt		Mut. hom		del193	Mut. hom		del193	Mut. hom	
	36		wt				wt			wt		wt
	37		wt				wt			wt/del4	het	
	38		wt				wt			wt/+2(TT)	het	
	39		wt				wt	Mut. hom		+1(T)	Mut. hom	
	40		wt				wt	Mut. hom		+2(TT)	Mut. hom	
	41		wt				wt			wt/+2(TT)	het	
	42		wt				wt			wt/+1(T)	het	
	43		wt				wt	Mut. hom		+1(T)	Mut. hom	
	44		wt				wt	Mut. hom		+1(T)	Mut. hom	
	45		wt				wt	Mut. hom		+1(T)	Mut. hom	
	46		wt				wt			wt/del4	het	
	47		wt				wt	Mut. hom		+1(T)	Mut. hom	
	48		wt				wt			wt		wt
	49		wt		Mut. hom		del193	Mut. hom		del193	Mut. hom	
	50		wt				wt	Mut. hom		del4	Mut. hom	
	51		wt				wt			wt		wt
	52		wt				wt	Mut. hom		del4	Mut. hom	
	53		wt				wt			wt		wt
	54		wt				wt			wt		wt
	55		wt		het		wt/-2(CA)			wt		het
	56		wt				wt			wt/+2(TT)	het	
	57		wt				wt			wt/+2(TT)	het	
	58		wt				wt	Mut. hom		+2(TT)	Mut. hom	
	59		wt				wt			wt		wt
	60		wt				wt			wt		wt
	61		wt		het		wt/-2(CA)		het	wt/del4	het	
	62		wt				wt			wt		wt
	63		wt				wt			wt		wt
	64		wt				wt			wt		wt
	65		wt				wt			het	wt/+1(T)	het
	66		wt				wt			wt		wt
	67		wt				wt	Mut. hom		+1(T)	Mut. hom	
	68		wt				wt			wt/del4	het	
	69		wt				wt			wt/+2(TT)	het	
	70		wt				wt			wt		wt
	71		wt				wt			wt		wt
	72		wt				wt	Mut. hom		+1(T)	Mut. hom	
	73		wt				wt	Mut. hom		+1(T)	Mut. hom	
	74		wt		het		+1(A)/+1(C)	Mut. hom		+1(T)	het	
	75		wt				wt			het	wt/+2(TT)	het
	76		wt				wt			wt		wt
Total	76	0	1	75		3	9	64	21	26	29	20 29 27