

Table S1 Plant expression vectors used in the study.

Vector	Detail	Target gene
pCas9	Expression of FLAG tag and NLS containing Cas9 protein.	NA
pTpds1	Expression of cgRNA targeting protospacer 1 of <i>Nicotiana benthamiana phytoene desaturase (pds)</i> gene	<i>N. benthamiana pds</i> gene
pTpds2	Expression of cgRNA targeting protospacer 2 of <i>N. benthamiana pds</i> gene	<i>N. benthamiana pds</i> gene
pCtpds1	Co-expression of Cas9 and cgRNA targeting protospacer 1 of <i>N. benthamiana pds</i> gene	<i>N. benthamiana pds</i> gene
pCtpds2	Co-expression of Cas9 and cgRNA targeting protospacer 2 of <i>N. benthamiana pds</i> gene	<i>N. benthamiana pds</i> gene
pCinox1	Co-expression of Cas9 and cgRNA targeting protospacer 1 of <i>T. aestivum inositol oxygenase (inox)</i> gene	<i>T. aestivum inox</i> gene
pCinox2	Co-expression of Cas9 and cgRNA targeting protospacer 2 of <i>T. aestivum inox</i> gene	<i>T. aestivum inox</i> gene
pCwpds1	Co-expression of Cas9 and cgRNA targeting protospacer 1 of <i>T. aestivum pds</i> gene	<i>T. aestivum pds</i> gene
pCwpds2	Co-expression of Cas9 and cgRNA targeting protospacer 2 of <i>T. aestivum pds</i> gene	<i>T. aestivum pds</i> gene
pCinox12	Co-expression of Cas9 and duplex cgRNAs targeting protospacer 1 and 2 of <i>T. aestivum pds</i> gene	<i>T. aestivum pds</i> gene
pCpin1	Co-expression of Cas9 and duplex cgRNAs targeting protospacer 1 of both <i>inox</i> and <i>pds</i> gene of <i>T. aestivum</i> .	<i>T. aestivum inox</i> and <i>pds</i> gene