

## DR5: RUBY

1. The *DR5* DNA was inserted into *pDX2181* between *BamH I* and *Pst I* to construct *plasmid A*.

*pDX2181* was donated from Dr. Ye. We don't know the clear information of the plasmid. *pDX2181* generates Kanamycin resistance in bacteria and Hygromycin resistance in plants.

Ye R, Zhou F, Lin Y. Two novel positive cis-regulatory elements involved in green tissue-specific promoter activity in rice (*Oryza sativa* L ssp.). *Plant Cell Rep*, 2012, 31(7): 1159-1172.

>DR5

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ggatccGGTATCGATAAGCTTGCAGCCGACGGTATCGCAGCCCCCTTTTGTCTC
CCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCT
TCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGT
TCTCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTT
GTCTCCCTGGGCAGGCCTCGATAAGGATCCCCGCAAGACCCTTCCTCTATAT
AAGGAAGTTCATTTCAATTTGGAGAGGTATTTTACAACAATTACCAACAAC
AACAAACAACAACAACATTACAATTACTATTTACAATTACAActgcag
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Primer for sequencing in *plasmid A*

F: CCAACGCTGATCAATTCCACAG

2. The *RUBY* DNA was inserted into *plasmid A* between *Afe I* and *Eco91 I* to construct *DR5: RUBY*. The terminator is Nos.

>DR5: RUBY

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ccaacgctgatcaattccacagtttcgcatccagactgaatgcccacaggccgctcagtttttgattcaggggtggggt
ttctacaggacgtaacataagggactgaccacccggggatccGGTATCGATAAGCTTGCAGCCGAC
GGTATCGCAGCCCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGT
TCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTT
GTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTTT
TTGTCTCCCTTTTGTCTCCCTTTTGTCTCCCTGGGCAGGCCTCGATAAGGAT
CCCCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGAGGTA
TTTTTACAACAATTACCAACAACAACAACAACAACAACAACAACAATTACAATTAC
TATTTACAATTACActgcagccaagcttcagcgtgtagatccATGGATCATGCGACCCTCG
CCATGATCCTCGCGATCTGGTTCATCAGCTTCCACTTCATCAAGCTGCTGTT
CTCCCAGCAGACCACCAAGCTGCTTCCGCCAGGACCAAGCCGCTTCCGA
TCATCGGCAACATCCTTGAGGTGGGCAAGAAGCCGCATCGGTCCTTCGCCA
ACCTCGCCAAGATTCACGGCCCACTCATTTCCCTCAGACTCGGCTCTGTGA
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CCACCATCGTTGTGTCCTCTGCCGACGTGGCCAAAGAGATGTTCCCTCAAGA  
AGGATCACCCGCTCTCCAACCGCACGATCCCGAATAGTGTTACAGCCGGCG  
ACCACCACAAGCTCACCATGTCTTGGCTCCCGGTGTCTCCGAAGTGCGCA  
ACTTCCGCAAGATTACCGCCGTGCATCTGCTCTCCCCACAGAGACTCGATG  
CCTGCCAGACATTCAGGCACGCCAAGGTGCAGCAGCTCTACGAGTACGTT  
CAAGAGTGCGCCCAGAAAGGCCAGGCCGTGGATATTGGCAAGGCCGCCTT  
TACGACCAGCCTCAACCTCCTCAGCAAGCTGTTCTTCAGCGTCGAGCTGGC  
GCACCACAAGTCCCATAACCAGCCAAGAGTTCAAAGAGCTGATCTGGAACA  
TCATGGAAGATATAGGCAAGCCGAACCTACGCCGACTACTTCCCGATTCTCG  
GCTGCGTTGACCCATCTGGCATTAGAAGAAGGCTCGCCTGCTCCTTCGACA  
AGCTGATCGCCGTGTTCCAGGGCATCATCTGCGAGAGACTCGCCCCAGATT  
CCTCCACCACAACCTACCACCACCACCGACGACGTGCTCGATGTGCTCCTCC  
AGCTGTTCAAGCAGAACGAGCTGACGATGGGCGAGATCAACCACCTCCTC  
GTGGACATCTTCGACGCCGGCACCGATACCACATCCTCCACATTCGAGTGG  
GTGATGACCGAGCTGATCCGCAATCCAGAGATGATGGAAAAGGCCCAAGA  
GGAAATCAAGCAGGTCTCGGCAAGGACAAGCAGATCCAAGAGTCCGAC  
ATCATCAACCTGCCGTACCTCCAGGCGATCATCAAAGAGACACTCCGCCTC  
CATCCGCCGACCGTGTTCTTGCTCCCAAGAAAGGCCGACACCGATGTGCA  
GCTGTACGGCTACATCGTGCCGAAGGATGCCAGATCCTCGTGAACCTCTG  
GGCCATTGGCAGGGACCCAAACGCCTGGCAGAACGCCGATATTTTCAGCCC  
AGAGCGCTTCATCGGCTGCGAGATCGATGTTAAGGGCCGCGATTTTCGGCCT  
CCTTCCATTTGGCGCTGGCCGCAGAAATTTGCCAGGCATGAATCTCGCCATC  
AGGATGCTCACCTCATGCTCGCCACACTCCTCCAGTTCTTCAACTGGAAG  
CTCGAAGGCGACATCTCCCGAAGGACCTCGACATGGACGAGAAGTTCGG  
CATTGCGCTCCAAAAGACCAAGCCGCTCAAGCTCATCCCGATTCCGCGCTA  
CCAATTGTTGAATTTTGATTTGTTGAAGTTGGCTGGAGATGTTGAATCTAAT  
CCTGGACCTAAGATGATGAACGGCGAGGACGCCAACGACCAGATGATCAA  
AGAGTCCTTCTTCATCACCCACGGCAACCCGATCCTCACCGTCGAGGATAC  
ACATCCGCTCAGGCCGTTCTTCGAGACATGGCGCGAGAAGATTTCTCCAA  
GAAGCCGAAGGCCATCCTCATCATCTCCGGCCACTGGGAGACAGTGAAGC  
CAACCGTGAACGCCGTGCACATCAACGACACCATCCACGACTTCGACGAC  
TACCCAGCCGCCATGTACCAGTTCAAGTACCCAGCTCCAGGCGAGCCAGA  
GCTTGCGAGAAAGGTGGAAGAGATCCTCAAGAAGTCCGGGTTTCGAGACA  
GCCGAGACAGACCAAAGAGGGGCCTTGATCACGGCGCCTGGGTTCCACT  
CATGCTCATGTATCCAGAGGCGGACATCCCGGTGTGCCAGCTCTCAGTTCA  
GCCACATCTCGACGGCACCTACCACTACAATCTCGGCAGAGCCCTCGCGCC  
GCTCAAGAATGATGGCGTGCTCATTATTGGCTCCGGCAGCGCCACACATCC  
ACTCGATGAGACACCGCACTACTTCGATGGTGTGCCCCCTTGGGCCGCTGC  
CTTCGATTCTTGGCTTAGGAAGGCCCTCATCAACGGCCGCTTCGAGGAAGT  
GAACATCTACGAGAGCAAGGCCCCGAACCTGGAAGCTCGCCCATCCATTTCC  
AGAGCACTTCTACCCGCTCCACGTTGTGCTCGGCGCTGCTGGTGAAGAGTG  
GAAGGCCGAGCTGATCCACTCCTCCTGGGATCATGGCACACTTTGCCACGG  
CTCCTACAAGTTCACCTCCGCCCAATTGTTGAATTTTGATTTGTTGAAGTTG  
GCTGGAGATGTTGAATCTAATCCTGGACCTACCGCCATCAAGATGAACACC

AACGGCGAGGGCGAGACACAGCACATCCTCATGATCCCGTTCATGGCGCA  
GGGCCACCTCAGGCCATTTCTCGAACTCGCCATGTTCTCTACAAGCGCTC  
CCACGTGATCATCACCTGCTCACA ACTCCGCTCAACGCCGGCTTCCTCAG  
GCACCTCCTTACCACCATTCTACTCCTCCAGCGGCATCAGGATCGTCGA  
GCTGCCATTCAACTCCACCAACCACGGACTCCCACCGGGCATCGAGAACA  
CCGATAAGCTCACACTCCCGCTCGTGGTGTCCCTCTTCCATTCCACCATCAG  
CCTCGATCCGCACCTCCGCGATTACATCTCCAGGCATTCAGCCCAGCCAG  
GCCACCCTCTGCGTGATCCATGATGTGTTCTCGGCTGGGTTGACCAGGT  
GGCCAAGGATGTGGGCTCTACAGGCGTGGTGTTCACAACAGGCGGCGCTT  
ATGGCACATCCGCCTACGTGTCCATCTGGAACGATCTCCCGCACCAGA ACT  
ACTCCGACGACCAAGAGTTCCCGCTGCCAGGCTTCCCAGAGAACCATAAG  
TTCCGCAGGTCCCAGCTCCATCGGTTCTCAGATATGCCGACGGCTCCGAC  
GATTGGTCCAAGTATTTCCAGCCGCAGCTCCGCCAGTCCATGAAGTCTTTT  
GGCTGGCTCTGCAACTCCGTGGAAGAGATCGAGACACTCGGCTTCTCCATC  
CTCCGCAACTACACCAAGCTGCCGATCTGGGGCATCGGCCCACTTATTGCT  
TCCCCAGTGCAGCACTCCTCCTCCGACAACAATTCAACAGGCGCCGAGTTC  
GTGCAGTGGCTCAGCCTCAAAGAGCCGGACTCCGTCTCTACATCTCCTTC  
GGCTCCCAGAACACGATCAGCCCGACGCAGATGATGGA ACTCGCTGCTGG  
CCTTGAGTCTCCGAGAAGCCATTCCTCTGGGTGATCAGAGCCCCGTTCCG  
CTTCGACATCAACGAAGAGATGCGCCAGAGTGGCTGCCAGAGGGCTTTG  
AGGAACGCATGAAGGTGAAGAAACAGGGCAAGCTCGTGTACAAGCTCGG  
CCCGCAGCTTGAGATCCTCAACCATGAATCCATCGGCGGCTTTCTCACCCA  
CTGCGGATGGAACAGCATCCTTGAGTCTCTTCGCGAGGGGCGTTCCGATGCT  
TGGATGGCCACTTGCTGCCGAGCAGGCCTACAACCTCAAGTACCTCGAAG  
ATGAGATGGGCGTTCGCGGTTGAGCTTGCTAGAGGCCTCGAAGGCGAGATC  
TCCAAAGAGAAGGTCAAGCGCATCGTCGAGATGATCCTTGAGCGCAACGA  
GGGCTCCAAAGGCTGGGAGATGAAGAATCGCGCCGTGGAAATGGGCAA  
AAGCTCAAGGACGCCGTGAACGAGGAAAAAGAGCTGAAGGGCTCCTCCG  
TGAAGGCGATCGACGATTTCTCGACGCCGTCATGCAGGCCAACTTGAGC  
CAAGCCTCCAGTGATAGTGA**ggtgacc**agctcgaatttccccgatcgttcaaacatttggcaataaagttt  
 ctaagattgaatcctgttgcggtcttgcgatgattatcatataatttctgtgaattacgtaagcatgtaataaataacatgtaat  
 gcatgacgttattatgagatgggttttatgattagatcccgcaattatacatttaatacgcgatagaaaacaaatatagcg  
 cgcaaaactaggataaattatcgcgcgcggtgtcatctatgttactagatcggaattaaactatcagtggttgacaggatatt  
 ggc

### Specific restriction sites in DR5: RUBY

*Sma* I: **cccggg**

*Pst* I: **ctgcag**

*Nco* I: **ccATGG**

*Eco91* I: **ggtgacc**

Primers for sequencing in DR5: RUBY

F: TGGGCAGGCCTCGATAAG

R: GCCAATATATCCTGTCAAACACTG