

Additional File 9: List of Primer sequences used for this study.

Primers for amplification of full-length *RBCL RNA SI-BINDING DOMAIN PROTIEN (RLSB) cDNA:

Arabidopsis RLSB forward: ATGCAAACGCTTCTCTGTC
Arabidopsis RLSB reverse: TGTCAGTACTCTCGAAC
Maize *RLSB* forward: ATGCCGACGCCGGCGCCGGCCCTTC
Maize *RLSB* reverse: GCTAAAATTTTCAGAATCTATTTTCATGG

***Primers for amplification of 447 nt fragment of *RLSB* for pEt17b and pHannibal**

For pEt:

At249NdeForward: GTATACCATATGGTTGGAAATGGAGGAATCGTGG underline =
NdeI site
At696NheReverse: ATTATGCTAGCCTCCGCAATCTCAACACC underline = NheI site

For pHannibal:

At249RiXbaForward: GTATATTCTAGAGTTGGAAATGGAGGAATCGTGG underline =
XbaI site
At249RiXhoForward: GTATACTCGAGGTTGGAAATGGAGGAATCGTGG underline =
XhoI site
At696RiClaReverse: ATTATATTCGATCTCCGCAATCTCAACACC underline = ClaI site
At696RiKpnReverse: ATTATGGTACCCTCCGCAATCTCAACACC underline = KpnI site

***Primer Sequences for genomic screening of Mu insertion library:**

tk1314S13': CGAGCCTTGCAATGCACACA (maize genomic)
tk279S15': CCGGTCAATTGTGCCAACTC (maize genomic)
eomu1: GCCTCCATTTTCGTCGAATCCC (Mu border)
eoMu2: GCCTCTATTTTCGTCGAATCCC (Mu border)

***Primer sequences for quantative real time PCR (qRT-PCR):**

Maize *rbcL* forward: AGTGTCTACGCGGTGGACTTGATT
Maize *rbcL* reverse: TGCAGTCGCATTCAAGTAATGCC
Maize *RLSB* forward: ATTGCTGGGACAAACAGAAGTGGC
Maize *RLSB* reverse: AAACCAGGTGCACTCTCAAGGTCT
Maize *actin* forward: TGTGTTGGACTCTGGTGATGGTGT
Maize *actin* reverse: TGATGTCCCGTACGATTTCCCGTT
Arabidopsis rbcL forward: AGTGTCTACGCGGTGGACTTGATT
Arabidopsis rbcL reverse: TGCAGTCGCATTCAAGTAATGCC
Arabidopsis RLSB forward: TGGTGGAGATTGGGACGGTTGTTT
Arabidopsis RLSB reverse: TCAATTCTGGTGAGAAGCCCTCCA
Arabidopsis actin forward: ACACTGTGCCAATCTACGAGGGTT
Arabidopsis actin reverse: ATTCACGCTCTGCTGTTGTGGTG
Arabidopsis rps3 forward: AGGAACTCTGCCTTCTCTGATCCA
Arabidopsis rps3 reverse: TCTTGCAGAATTTATCGCTGGAC
Arabidopsis rpl20 forward: CCCATTTTCGTGAATTACGGCATT
Arabidopsis rpl20 reverse: GCTCATTACGGCTTACACGAACT

***Primer sequences for RNA immunopurification with quantitative real-time PCR (RIP/qRT-PCR)**

rbcL forward: GCTGCGGAATCTTCTACTGG
rbcL reverse: GTAGAGCGCGTAAGGCTTTG
psaB forward: GTCCTGTCCAAGCCAAAGAA

psaB reverse: TGGGGTTTATCAGTGGTGGT
psbA forward: TCGCTGCTCCTCCAGTAGAT
psbA reverse: CTCATAAGGACCGCCATTGT
petD forward: CCAACGGGCTTATTGACAGT
petD reverse: GCGGTGGAATGAATCAACTC
psaC forward TCAATAAGATAGAGCCATGCTG
psaC reverse AGGATGCACTCATTGTGTACGA
atpA forward GACAGACTGGCAAACAGCA
atpA reverse CCGTTCGCGGTACATAAAAT
atpB forward CACCGACTGGAACACTGAGA
atpB reverse GACCCGTGCTGGATATCACT
rpl2 forward: GCCGTATGCTTTGGAAGAAG
rpl2 reverse: GGACCTCCCCAGATGGTAAT