

Table 3. Amplification of the cDNA encoding the small subunit of ribonucleotide reductase in soybean

| Part of the cDNA | Size (bp) | Primer for PCR | Target of primer^a |
|-------------------------------|------------------|--|---|
| First segment | 770 | 5'-AAR GCI GAR GCI WSI TTY TGG AC-3' 5'-ATX WWY TCC ATC CAG TCR AAI GGR TT-3' | 127th-149th 896th-871st |
| 3' end | | | |
| 1st round PCR | various | 5'-TGG CTG CAA GGT TTC TGA GT-3' Anchor (3'-AmpliFinder RACE, Clontech) | 275th-294th various |
| 2nd round PCR | various | 5'-ATT GTG ATT TTG CTT GTC TTC TGT-3' Anchor (3'-AmpliFinder RACE, Clontech) | 644th-667th various |
| 5' end | | | |
| 1st round PCR | various | AP1 (Marathon cDNA Amplification, Clontech) 5'-CTT CTT CCG TAA CAA ACT GTA CAG AAG ACAA-3' | various 687th-657th |
| 2nd round PCR | various | AP2 (Marathon cDNA Amplification, Clontech) 5'-GCC TCG GGA ATT TGA ACA TCA CTC AGA A-3' | various 314th-286th |
| Complete coding region | 1227 | 5'-GGG TGT CTT GGA TCA GCG TGC TTT CTG -3' 5'-ACC AGC GGC TAG GAA TCA CTT AAG TTA TGT GT-3' | 73rd-99th upstream of start codon 134th-103rd downstream of stop codon |

^aThe nucleotide in the cDNA targeted by the primer. The numbering is based on the nucleotide sequence downstream from the start codon, except for the last two primers used for the complete coding region.

Table 4. Amplification of the cDNA encoding Large Subunit A of ribonucleotide reductase in soybean

| Part of the cDNA | Size (bp) | Primer for PCR | Target of primer^a |
|-------------------------------|------------------|---|---|
| First segment | 530 | 5'-GGI ATI YTI CAR YII GAY ATG TGG-3' 5'-CKI ARR TAR TAC ATI CCI GTY TT-3' | 1747th-1770th 2276th-2254th |
| 3' end | | | |
| 1st round PCR | various | 5'-CCG CAG AGT TCT AAG TGG TGA ATT TGT TGTA-3' AP1 (Marathon cDNA Amplification, Clontech) | 1935th-1965th various |
| 2nd round PCR | various | 5'-ACT GAA ATG GGA CTT TGG TCT CCT ACA ATC-3' AP2 (Marathon cDNA Amplification, Clontech) | 1993rd-2022nd various |
| 5' end | | | |
| 1st round PCR | various | AP1 (Marathon cDNA Amplification, Clontech) 5'-CTT TTG CTT AAT CTC CCA AAC AGT CTT GTA TAT GA-3' | various 2124th-2090th |
| 2nd round PCR | various | AP2 (Marathon cDNA Amplification, Clontech) 5'-GAT CAT CAG GTA TTT CTG GGA TTT TCT GAA CTG AA-3' | various 2083rd-2049th |
| Complete coding region | 2542 | 5'-CTC GCG CCT GCG CCA AAA CTG TTC-3' 5'-AAT CAA TCC GGG AAA ATG CAA CTT GGA ATG-3' | 79th-102nd upstream of start codon 33rd-4th downstream of stop codon |

^aThe nucleotide in the cDNA targeted by the primer. The numbering is based on the nucleotide sequence downstream from the start codon, except for the last two primers used for the complete coding region.

Table 5. Amplification of the cDNA encoding Large Subunit B of ribonucleotide reductase in soybean

| Part of the cDNA | Size (bp) | Primer for PCR | Target of primer^a |
|-------------------------------|------------------|---|---|
| First segment | 398 | 5'-AGY CAR ATI YTI GGI WWY AAY GA-3' 5'-CKI ARR TAR TAC ATI CCI GTY TT-3' | 1879th-1901st 2276th-2254th |
| 3' end | | | |
| 1st round PCR | various | 5'-ACA GTC GAT GAG TTT TAA GTG GTG AAT TTG TTG TT-3' AP1 (Marathon cDNA Amplification, Clontech) | 1931st-1965th various |
| 2nd round PCR | various | 5'-ACT GAA ATG GGA CTG TGG TCT CCT ACA TTA-3' AP2 (Marathon cDNA Amplification, Clontech) | 1993rd-2022nd various |
| 5' end | | | |
| 1st round PCR | various | AP1 (Marathon cDNA Amplification, Clontech) 5'-GTC TTT AGA CCC TTG GAC CAT GCA TAA AAC-3' | various 2258th-2229th |
| 2nd round PCR | various | AP2 (Marathon cDNA Amplification, Clontech) 5'-TGA TCC ATG TGA ATA TTT AAG CTT TGG CTC TGA-3' | various 2198th-2166th |
| Complete coding region | 2566 | 5'-TCA CTT CAC ACT CCA TCA CCA GAT A-3' 5'-ATA CAA ATG ATA TTG ATG ACA ACT ATG TTC-3' | 32nd-8th upstream of start codon 107th-78th downstream of stop codon |

^aThe nucleotide in the cDNA targeted by the primer. The numbering is based on the nucleotide sequence downstream from the start codon, except for the last two primers used for the complete coding region.