**Table S1.** Primers used in this study.

|  |
| --- |
| Purpose and primer name Primer sequence |
| Semi-quantitative RT-PCR  OsEno1-F1 5′-CGCAGATCTGGCTGTTGGTT-3′  OsEno1-R1 5′-AGCGACTCTTTCCGAATGTT-3′  OsEno2-F1 5′-GATGTCAAAACGTGCTGGCT-3′  OsEno2-R1 5′-CTTGCGCCACGCAACATCAA-3′  OsEno3-F1 5′-GGTCCGGGGACACTGATGAT-3′  OsEno3-R1 5′-GCTGTCCTGTTCCATGCTCT-3′  OsEnol4-F1 5′-CTGAGGATACCTTCATTGCTGAT-3′  OsEnol4-R1 5′-GAGCATCCTGTCTTCACCATCA-3′  OsEnol5-F1 5′-GAATGTCCAAGCGTGCTGGAT-3′  OsEnol5-R1 5′-GGCACCATGGTCCATAGGCA-3′  OsEnol6-F1 5′-GGCACCATCTCCGAGTCGAT-3′  OsEnol6-R1 5′-CCACAGCCGAGGCGACTCGT-3′  OsEnol7-F1 5′-CTGAGGATACCTTCATTGCTGAA-3′  OsEnol7-R1 5′-CCATGCACACAACAGTGGGCA-3′  Actin-F 5′-CGCCCCTCCTGAAAGGAAGT-3′  Actin-R 5′-GCAGGAGGACGGCGATAACA-3′  5’-RACE  OsEno3-R2 5′-CCACCATCATCACCTATGTTGCAGC-3′  OsEno3-R3 5′-GCCGCCCGGCGCATGTGGTTGGAGA-3′  Transit:*GFP*  OsEno1-F2+NcoI 5′-CGCCATGGCCCACCGCCTCCTCCTCCC-3′  OsEno1-R2+NcoI 5′-CGCCATGGCGACGAGGTCGACCTCCACGG-3′  OsEno3-F2+SalI 5′-CGCGTCGACATGTCGGTGCAGGAGTACCTGG-3′  OsEno3-R2+NcoI 5′-CGCCATGGCGTCCCTGACGGCGTCGG-3′  Promoter:GUS  OsEno1P-F+BamHI 5′-GCGGATCCGCTAAGGCGATGTGTTTGGCTTGT-3′  OsEno1P-R+SmaI 5′-GCGCCCGGGGCACCCAATTTTGACTTGTTCGG-3′  OsEno3P-F+XbaI 5′-GCTCTAGAGTCGCTCTTCGAACAGAGAGAA-3′  OsEno3P-R+SmaI 5′-GCGCCCGGGTCTTTTTCAGCAGCACCTGCTTT-3′  Recombinant protein  OsEno1RC-F1+NdeI 5′-GGAATTCCATATGGCGGAGGTGGTGCGGTCGAT-3′  OsEno1RC-R1+EcoRI 5′-CGGGAATTCTTAGGGAGACCTGAATGCCTC-3′  OsEno3RC-F1+NdeI 5′-GGAATTCCATATGAGCGTGCGGGCGCGCCAGAT-3′  OsEno3RC-R1+XhoI 5′-GCGCGCTCGAGTCAGCTTGTGCTTGCGGTGGT |

Extra nucleotides attached to introduce restriction sites are underlined.

**Table S2.** Enolase genes found in rice genome.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene | RAP-ID | Accession No.  (mRNA) | mRNA  (bp) | Amino acid | Target P  （Plastid） |
| *OsEno1* | Os09g0375000 | AK243111 | 1917 | 479 | 0.648 |
| *OsEno2* | Os03g0248600 | AK073611 | 1689 | 445 | 0.149 |
| *OsEno3* | Os03g0266200 | AB917428 | 1934 | 478 | 0.285 |
| *OsEno4* | Os10g0167300 | AK073662 | 1651 | 446 | 0.143 |
| *OsEno5* | Os06g0136600 | AK069316 | 1677 | 446 | 0.111 |
| *OsEno6* | - | AK107411 | 1479 | 445 | 0.102 |
| *OsEno7* | - | U09450 | 1687 | 446 | 0.143 |

Os03g0266200 contains partial sequence of *OsEno3*. The values of Target P indicate the score of plastid localization analyzed by Target P (http://www.cbs.dtu.dk/services/TargetP/).