Figure S1.

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                                        αA        βA
Rice            1:MQVWPIEGIKKFETLSYLPPLTVEDLLKQIEYLLRSKWVPCLEFSK--VGFVYRENHR--  56
Sorghum         1:MQVWPAYGNKKFETLSYLPPLTEEQLLKQVDYLLRNNWVPCLEFSK--EGFVYRENST--  56
Spinach         1:MQVWPILNLKKYETLSYLPPLTTDQLARQVDYLLNNKWVPCLEFET-DHGFVYREHHN--  57
Chlamydomonas   1:MMVWTPVNNKMFETFSYLPPLTDEQIAAQVDYIVANGWIPCLEFAEADKAYVSNESA-IR  59
                  ** * *   ** *** ***     *  **  *          *        * * **
                                βB          αB          βC
Rice           57:----SPGYYDGRYWTMWKLPMFGCTDATQVLKELEEAKKAYPDAFVRIIGFDNVRQVQLI 112
Sorghum        57:----SPCYYDGRYWTMWKLPMFGCTDASQVYKELQEAIASYPDAYVRILGFDNIKQTQCV 112
Spinach        58:----SPGYYDGRYWTMWKLPMFGCTDPAQVLNELEECKKEYPNAFIRIIGFDSNREVQCI 113
Chlamydomonas  60:FGSVSCLYYDNRYWTMWKLPMFGCRDPMQVLREIVACTKAFPDAYVRLVAFDNQKQVQIM 119
                     *****  ** **  ** *                                * *******
                  βD
Rice          113:SFIAYKPPGCEESGGN                                             128
Sorghum       113:SFIAYKPAGSE                                                  123
Spinach       114:SFIAYKPAGY                                                   123
Chlamydomonas 120:GFLVQRPKTARDFQPANKRSV                                        140
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Figure S1. Alignment of the amino acid sequences of RbcS from rice, sorghum, spinach and Chlamydomonas. The common amino acid residues among species are colored red. Different amino acid residues between rice and sorghum are colored blue. Secondary structural elements are indicated above the amino acid sequence by arrows. Amino acid residues located at the interface between RbcL and RbcS reported by spinach Rubisco (Knight et al., 1990) are indicated below the amino acid sequence by asterisk. Accession numbers of Genbank or PDB : rice, AK121444; sorghum, AB564718; spinach, 8RUC; Chlamydomonas, 1GK8.