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CAAGAGAACTTTGTCTTCTCCCGCTCAAACCTCCGTTGAAAATTGACTCTTTGTTCGAAGGTATCGATTCTACACTCCATCACCAGACCCAGATTCGAA 1467
                                                                                               1099

GAATTGTGTGCTGACTTGTTCAGATCTACTTTGGACCCAGTGGAAAAGTCTTGAGAGATGTAAATTGGACAAATCTCAAGTCGATGAAATTGTCTTGG 1567
                                                                                               T
                                                                                               1199

TCGGTGGTTCACCAGAATTCCAAAGGTCCAAAAATTGGTCACTGACTACTTCAACGSTAAGGAACCAACAGATCTATCAACCAGATGAAGCTGTTGC 1667
                                                                                               1299

TTACGGTGTGCTGTCTCAAGCTGTCTATTTTACTGGTGTGACGAATCTTCCAAGACTCAAGATCTATTGTGTGGATGTCGCTCCATTATCCTTGGGTATT 1767
                                                                                               1399

GAAACTGCTGGTGGTGCATGACCAAGTGTATCCAAGAACTCTACCATTCAACAAGAAGTTCGAGATCTTTCCACTTATGTGTATACCAACCAG 1867
                                                                                               C   T   A   C   A   G   T   C   T
                                                                                               C
                                                                                               1499

GTGTCTTGATTCAGTCTTTGAAGGTGAAAGAGCCAAAGACTAAGGACAACAACCTGTTGGGTAAGTTCGAATTGAGTGGTATTCCACCAGCTCCAAGAGG 1967
                                                                                               1599

TGTCACCACAAATGAAGTCACTTTTCGATGTGCACTTAACGGTATTTTGAATGTTCCGCGCTCGAAAAGGGTACTGGTAAGTCTAACAGATCACTATT 2067
                                                                                               1699

ACCAACGACAAGGGTAGATTGTCGAAGGAGATATCGAAAAGATGGTGTCTGAAGCCGAAAAATTCGAAGGAAGATGAAAAGGAATCTCAAAGAATTG 2167
                                                                                               1799

CTTCCAAGAACAATTGGAATCCATTGCTTACTCTTTGAAGAACCACCTTTCTGAAGCTGGTGACAAATTTGGAACAAGCTGACAAGGACACCGTCCACAA 2267
                                                                                               G   A   G
                                                                                               G   T   T
                                                                                               1899

GAAGGCTGAAGAGACTATTCTTGGTTAGACAGCAACACCCTGCCAGCAAGGAAGAATTCGATGACAAGTTGAAGGAGTTGCAAGACATTGCCAACCCA 2367
                                                                                               A   G
                                                                                               T   C
                                                                                               C   A   A
                                                                                               G   G
                                                                                               1999

ATCATGTCTAAGTTGTACCAAGCTGGTGGTGTCCAGGTGGCGCTGCAGGTGGTGTCCAGGCGGTTCCCGAGTGTGCTCTCCAGCTCCAGAGGGCTG 2467
                                                                                               A
                                                                                               AA
                                                                                               ΔΔΔΔΔΔΔΔΔΔ
                                                                                               T
                                                                                               A
                                                                                               2090

AAGGTCCAACCGTTGAAGAAGTTGATTAAGCCA 2500  SSA1
T C TT 2123  SSA2
    
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Figure 1. Comparison of the *SSA1* and *SSA2* DNA sequences. The *SSA1* DNA sequence is displayed completely and all differences in the *SSA2* sequence are indicated below the *SSA1* sequence. No significant similarities were found in the promoter regions and they have been aligned without gaps relative to the initiation codons for the two genes. Nucleotides are numbered to the right of the sequences. *SSA1* encodes a predicted 642 amino acid protein of 69,749 m.w. and *SSA2* encodes a predicted 639 amino acid protein of 69,451 m.w. The protein coding region for *SSA1* is from nucleotide 568 to 2496 and for *SSA2* from 200 to 2119. Nucleotide changes in *SSA2* relative to *SSA1* that result in amino acid substitutions are indicated by underlining the variant nucleotide in the *SSA2* DNA sequence. The single gap inserted in *SSA2* to align the protein coding regions is indicated with Δ's (amino acids 616-618 in the *SSA1* protein). The nucleotide sequences were determined on both DNA strands by the chemical cleavage method and all overlaps were obtained. Four conflicts in the overlapping sequence of *SSA1* (nucleotides 2337 to 2500) and pGKN-1 (a plasmid containing *trn1* DNA(5)) were found and checked on the *SSA1* sequencing gels to confirm our assignments.

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