

AATCTCTCCCTCGTACTGTCTCACGCTTGCGGGACAGAAAAACAATGTG
 AAATATTCCAAAGCCAACCTGGTGCATGAGCAGATAAAACCCAGGTTCC
 CAGACTATGATGAAAAACAGTTTCTGCCATCGTTGGACGTACAGGCCCC
 TGATTGTGAGTAGCGCACACGTCCAGCTTCCTCTTCGTCGAATCGTTCT
 GAACCGGCGACGGCTTTGTAAACCAAGTCAAACCTGGGGGTGCCGATTG
 TGTCTGTCTGCTGAATTGTCGCTCACAGCCTAACTGCGGAACCACA
 1 **ATG**CTGTCTTCGCTGTGCATGATGGCCGCGATCTTTGGCTTTCCT
 M L S S L C M M A A I F G F P
 46 CTGAGAGAAGCGTTCGTCCTCCATCCCTCCCGAGAGGAGCCTGCA
 L R E A F V L H P S R E E P A
 91 GGAGCCATCTCAGACGTGCCGTTGGCAAGGTGAACAGATGCCAG
 G A I S D V P V G K V N R C Q
 136 GGGGAGTCACTTCAGGTCATAAAGCAGAAGCTGTTGGAGGCCCTG
 G E S L Q V I K Q K L L E A L
 181 AACCTGGGTAGGGAGCCTCAGGTTTCCAGGACTGGACTCGGCAGG
 N L G R E P Q V S R T G L G R
 226 TTTAGGGAGCAGTGGAAAGCGGTCTTAGGAGACACTGCCCACAGC
 F R E Q W K A V L G D T A H S
 271 TCACCGAAGTCTCAGGAATCCACTGTGTTGGATACAACCTCCACA
 S P K S Q E S T V L D T T S T
 316 CAAGAGTCCACTGGGACCCGAGATGAGACCAACAGTACAGGCTTG
 Q E S T G T R D E T N S T G L
 361 CAGTGCTGCCAGCTGGCTTCACAGATCTTCATAAACGATCTTGGT
 Q C C Q L A S Q I F I N D L G
 406 TGGGAGAACTGGATAATCTTTCCAGATACCTTCACCTACACCCAG
 W E N W I I F P D T F T Y T Q
 451 TGTGCAGTCTGCGACCCCCACCTGGACCCAAAAGCTCCAAAGTGT
 C A V C D P H L D P K A P K C
 496 CGAGCAAACAGCCCCCTGAGCCAAACACCCCTTCAAAGTGCTGC
 R A N S P P E P N T P S K C C
 541 CAGCCAACCTCCCATGTGATGGTGCCATTCTTCTACTTGGATGAG
 Q P T S H V M V P F F Y L D E
 586 CTCAACACGCCAGTCATCTCCTCTGTGGCCCTGACCAACCAATGT
 L N T P V I S S V A L T N Q C
 631 GGCTGCAAACAGGATCATACATCCAGGATGCACAGAACTGA
 G C K P G S Y I Q D A Q N *

Figure S1: Nucleotide and deduced amino acid sequences of *A. japonica* Gsdf. Start codon is shown in box.