

Supplementary materials for the article:

Gao Y. et al. A Salt-tolerant *Streptomyces paradoxus* D2-8 from Rhizosphere Soil of *Phragmites communis* Augments Soybean Tolerance to Soda Saline-alkali Stress
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Fig. S1. BLAST analysis of the ectoine biosynthetic gene cluster in the D2-8 genome.

Table SI
The antagonistic activity of isolated actinomycetes against fungi.

Actinomycetes Inhibition radius (mm)	<i>Phytophthora sojae</i>	<i>Fusarium avenaceum</i>	<i>Fusarium solani</i>	<i>Gibberella zeae</i>
D2-8	28 ± 0.77	13.68 ± 2.7	11.9 ± 1.19	6.16 ± 3.49
D2-1	9.53 ± 0.68	N	N	N
D2-2	6.10 ± 2.35	N	N	N
D2-3	8.55 ± 1.73	N	N	N
D2-4	-	N	N	N
D2-5	11.74 ± 1.43	N	N	N
D2-6	-	N	N	N
D2-7	-	N	N	N
D2-9	16.33 ± 0.54	N	N	N
D2-10	-	N	N	N
D2-11	5.38 ± 1.45	N	N	N
D2-12	-	N	N	N
D2-13	-	N	N	N

N – not measured
-- no inhibition

Table SII
Growth features of strain D2-8 on different media.

Medium	Growth	Substrate mycelium	Aerial mycelium
ISP1	moderate	pale yellow	grayish white
ISP2	poor	brown	grayish white
ISP3	good	red/violet	grayish white
ISP4	moderate	red/violet	white
ISP5	moderate	pale yellow	pale yellow
ISP6	poor	grayish brown	grayish white
ISP7	moderate	brilliant orange yellow	brown/voilet
Bennett	moderate	brilliant orange yellow	
Glucose-nitrate	moderate	brilliant orange yellow	
Sucrose-nitrate	poor	brilliant orange yellow	
Czapek's agar	good	white	grayish white

Table SIII
 Characteristics of sequencing of the D2-8 genome.

Property	Value
Reads num	11,864,122
Total bases (bp)	2,883,887,826
Q30 (%)	80.42
Total genome sequence length	8,732,707
Contig number	72
Scaffold number	62
N50 (bp) in contig	280,139
N50 (bp) in scaffold	328,139
ORF number	8,019
ORF density	0.918 genes per kb
ORF / Genome (coding percentage)	85.82 %
ORF average length	934.55
Protein annotation in NR	7,703
Protein annotation in Swiss-Prot	4,818
5s rRNA	5
16s rRNA	2
23 s rRNA	2
tRNA	67
other ncRNA	117