Supplemental Tables

TABLE S1 Description of tomato hybrid rootstocks and their potential resistance to tomato diseases and pests, as described at www.vegetablegrafting.org.

Diseases	**Maxifort**	**RST-04-106**
Bacterial Wilt		R
Corky Root Rot	R	R
Fusarium Wilt Race 1	R	R
Fusarium Wilt Race 2	R	R
Fusarium Crown and Root Rot	R	
Verticillium Wilt	R	
Nematode	R	R
Tomato Mosaic Virus	R	R
Developer	DeRuiter Seeds	DP Seeds

R: Resistant

TABLE S2 ANOVA table comparing Shannon entropy among the rootstock treatments. Observations were divided by compartments (A & C – Endosphere; B & D – Rhizosphere) and years (A & B – Year 2015; C & D – Year 2015), and diversity was compared among the rootstock treatments at each study site.

A) Year = 2014
Compartment = Endosphere
Analysis of Variance Table

```
Response: value
                     Df Sum Sq Mean Sq F value   Pr(>F)
Rootstock             3 2224.7  741.55  5.95      0.001 **
Study_site            2  989.1  494.54  3.97      0.025 *
Rootstock:Study_site  6 1200.1  200.02  1.60      0.167
Residuals            44 5474.9  124.43

Study_site = Common Harvest:
 Rootstock    lsmean       SE df lower.CL upper.CL .group
 Maxifort   56.70        5.57 44  45.46      67.94     a
 Nongraft   54.20        5.57 44  42.96      65.44     a
 RST-04-106 54.14        5.57 44  42.90      65.38     a
 Selfgraft  41.84        5.57 44  30.60      53.08     a

Study_site = Gieringer:
 Rootstock    lsmean       SE df lower.CL upper.CL .group
 Maxifort   70.85        5.57 44   59.61     82.09     a
 Selfgraft  64.92        5.57 44   53.68     76.17     ab
 Nongraft   55.13        5.57 44   43.89     66.37     ab
 RST-04-106 50.19        5.57 44   38.95     61.43      b

Study_site = OHREC:
 Rootstock    lsmean       SE df lower.CL upper.CL .group
 Maxifort   65.56        4.55 44   56.38     74.74     a
 Selfgraft  47.53        4.55 44   38.36     56.71     b
 RST-04-106 45.35        4.55 44   36.17     54.53     b
 Nongraft   43.83        4.55 44   34.65     53.01     b
```

B) **TABLE S2 Continued.**
Year = 2014
Compartment = Rhizosphere
Analysis of Variance Table

```
Response: value
                     Df Sum Sq Mean Sq F value      Pr(>F)
Rootstock             3  31945 10648.5  5.42 0.002  **
Study_site            2  34621 17310.7  8.81 0.0006 ***
Rootstock:Study_site  6   4982   830.4  0.42 0.8598
Residuals            44  86408  1963.8
Study_site = Common Harvest:
 Rootstock     lsmean       SE df  lower.CL upper.CL .group
 Maxifort   162.97       22.15 44  118.32    207.63  a
 RST-04-106 123.41       22.15 44  78.75     168.06  ab
 Nongraft   112.03       22.15 44  67.37     156.68  ab
 Selfgraft   98.14       22.15 44  53.48     142.79   b

Study_site = Gieringer:
 Rootstock     lsmean       SE df  lower.CL upper.CL .group
 Maxifort   132.74       22.15 44  88.08     177.40  a
 RST-04-106 101.02       22.15 44  56.36     145.67  a
 Selfgraft   86.48       22.15 44  41.83     131.14  a
 Nongraft    77.88       22.15 44  33.23     122.54  a

Study_site = OHREC:
 Rootstock     lsmean       SE df  lower.CL upper.CL .group
 Maxifort   201.66       18.09 44  165.20    238.12    a
 Selfgraft  164.58       18.09 44  128.11    201.04    ab
 RST-04-106 146.23       18.09 44  109.77    182.69    b
 Nongraft   121.25       18.09 44  84.79     157.72    b
```

C) **TABLE S2 Continued.**
Year = 2015
Compartment = Endosphere
Analysis of Variance Table

```
Response: value
                     Df  Sum Sq Mean Sq F value    Pr(>F)
Rootstock             3  2207.5  735.82  3.0160   0.039 *
Study_site            2  5805.6 2902.81 11.8983 7.403e-05 ***
Rootstock:Study_site  6  1533.6  255.60  1.0477   0.408
Residuals            44 10734.6  243.97
```

Study_site = Common Harvest:

Rootstock	lsmean	SE	df	lower.CL	upper.CL	.group
Maxifort	88.16	7.80	44	72.42	103.90	a
Selfgraft	82.76	7.80	44	67.02	98.50	a
RST-04-106	82.09	7.80	44	66.35	97.83	a
Nongraft	67.88	7.80	44	52.14	83.62	a

Study_site = Gieringer:

Rootstock	lsmean	SE	df	lower.CL	upper.CL	.group
Nongraft	58.84	7.80	44	43.10	74.58	a
Maxifort	56.03	7.80	44	40.29	71.77	a
RST-04-106	53.81	7.80	44	38.07	69.55	a
Selfgraft	51.94	7.80	44	36.20	67.68	a

Study_site = OHREC:

Rootstock	lsmean	SE	df	lower.CL	upper.CL	.group
Maxifort	90.59	6.37	44	77.73	103.44	a
RST-04-106	79.19	6.37	44	66.34	92.04	ab
Selfgraft	68.46	6.37	44	55.61	81.31	b
Nongraft	62.64	6.37	44	49.79	75.50	b

D) **TABLE S2 Continued.**
Year = 2015
Compartment = Rhizosphere
Analysis of Variance Table

```
Response: value
                     Df Sum Sq Mean Sq F value Pr(>F)
Rootstock             3  13594  4531.3  2.4316 0.07 .
Study_site            2   2490  1244.9  0.6680 0.51
Rootstock:Study_site  6   5265   877.6  0.4709 0.82
Residuals            44  81995  1863.5
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Study_site = Common Harvest:
 Rootstock    lsmean       SE df  lower.CL upper.CL .group
 RST-04-106 161.07       21.58 44  117.57     204.57  a
 Selfgraft  136.89       21.58 44  93.39     180.39   a
 Maxifort   134.76       21.58 44  91.26     178.26   a
 Nongraft   126.29       21.58 44  82.79     169.79   a

Study_site = Gieringer:
 Rootstock    lsmean       SE df  lower.CL upper.CL .group
 Maxifort   178.03       21.58 44 134.53     221.53    a
 RST-04-106 149.58       21.58 44 106.08     193.09    a
 Nongraft   135.36       21.58 44  91.86     178.86    a
 Selfgraft  127.74       21.58 44  84.24     171.24    a

Study_site = OHREC:
 Rootstock    lsmean       SE df  lower.CL upper.CL .group
 Maxifort   185.09       17.62 44 149.58      220.61  a
 RST-04-106 165.06       17.62 44 129.55      200.58  ab
 Nongraft   139.58       17.62 44 104.06      175.10  ab
 Selfgraft  133.27       17.62 44  97.75      168.79   b
```

A) 2014_Endosphere

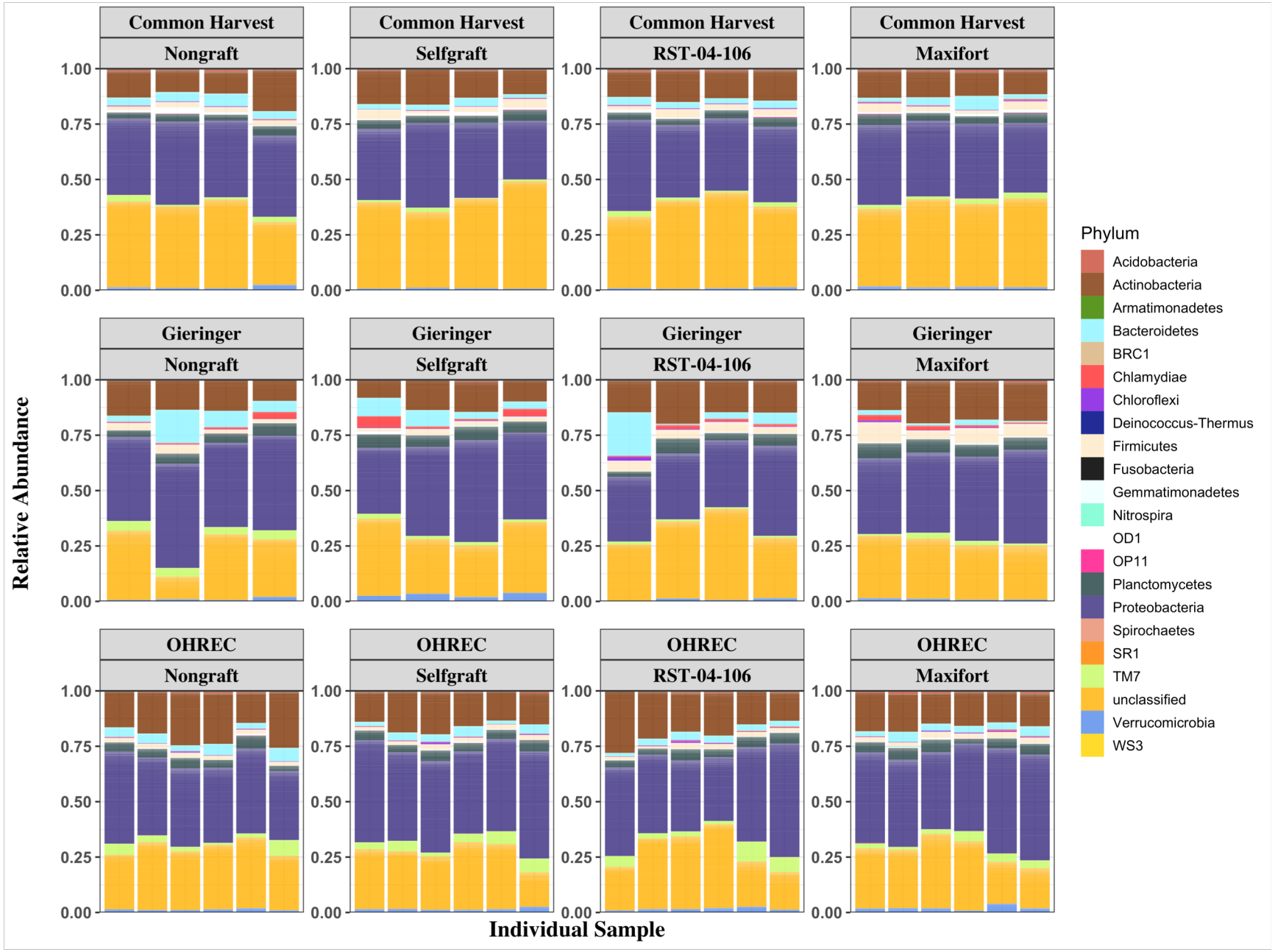

FIG S1 Profile of bacterial communities from tomato rootstocks at the phylum level, separated by compartment, location, and sampling year. The relative abundance of the endosphere (A & C) and rhizosphere (B & D) bacterial phyla associated with two hybrid rootstocks (RST-04-106 and Maxifort) and nongraft and selfgraft (BHN589) controls are reported for the years 2014 and 2015. The colored area of each bar represents the relative abundance of the corresponding phylum.

B) 2014_Rhizosphere

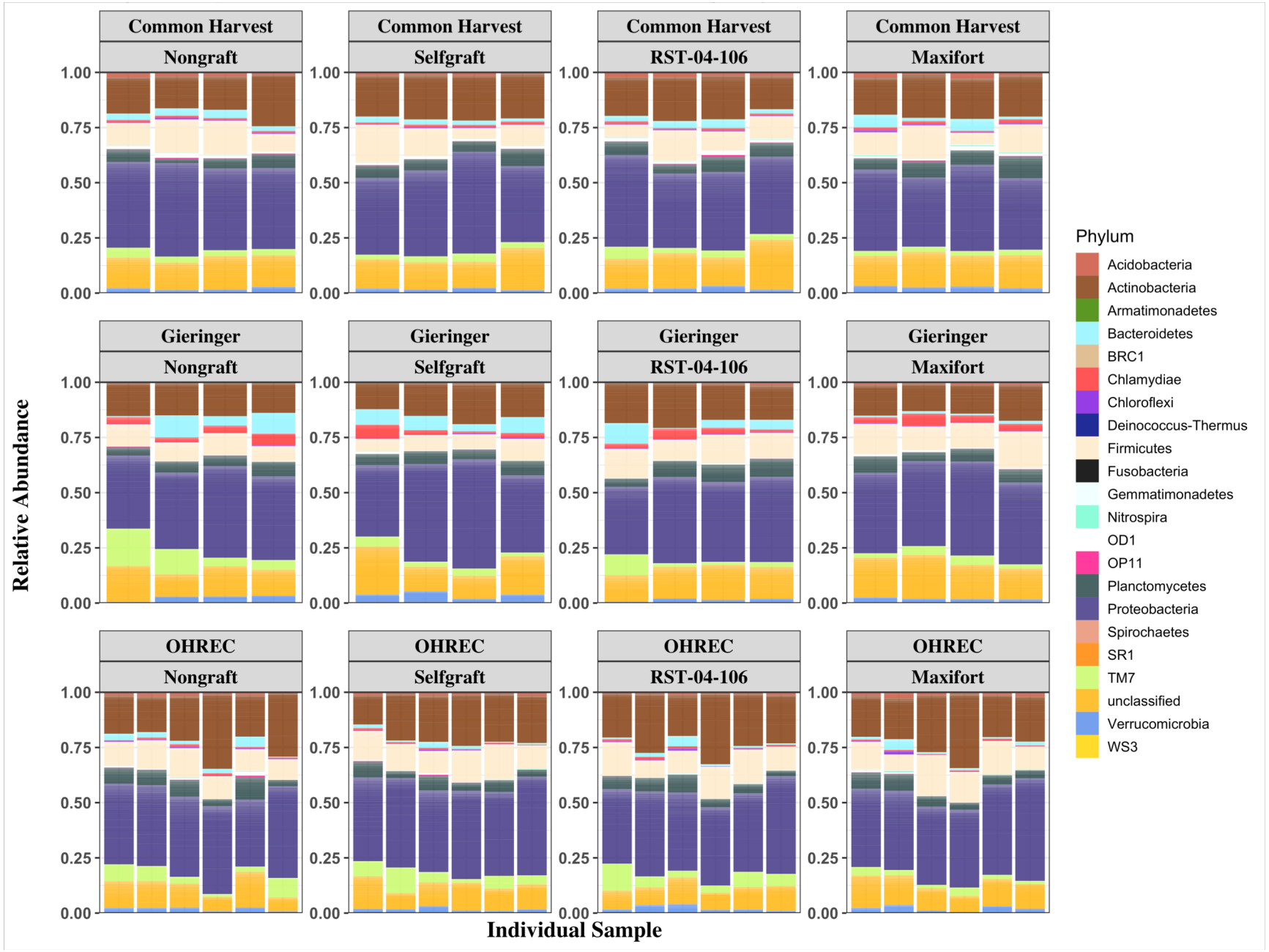

FIG S1 Continued.

C) 2015_Endosphere

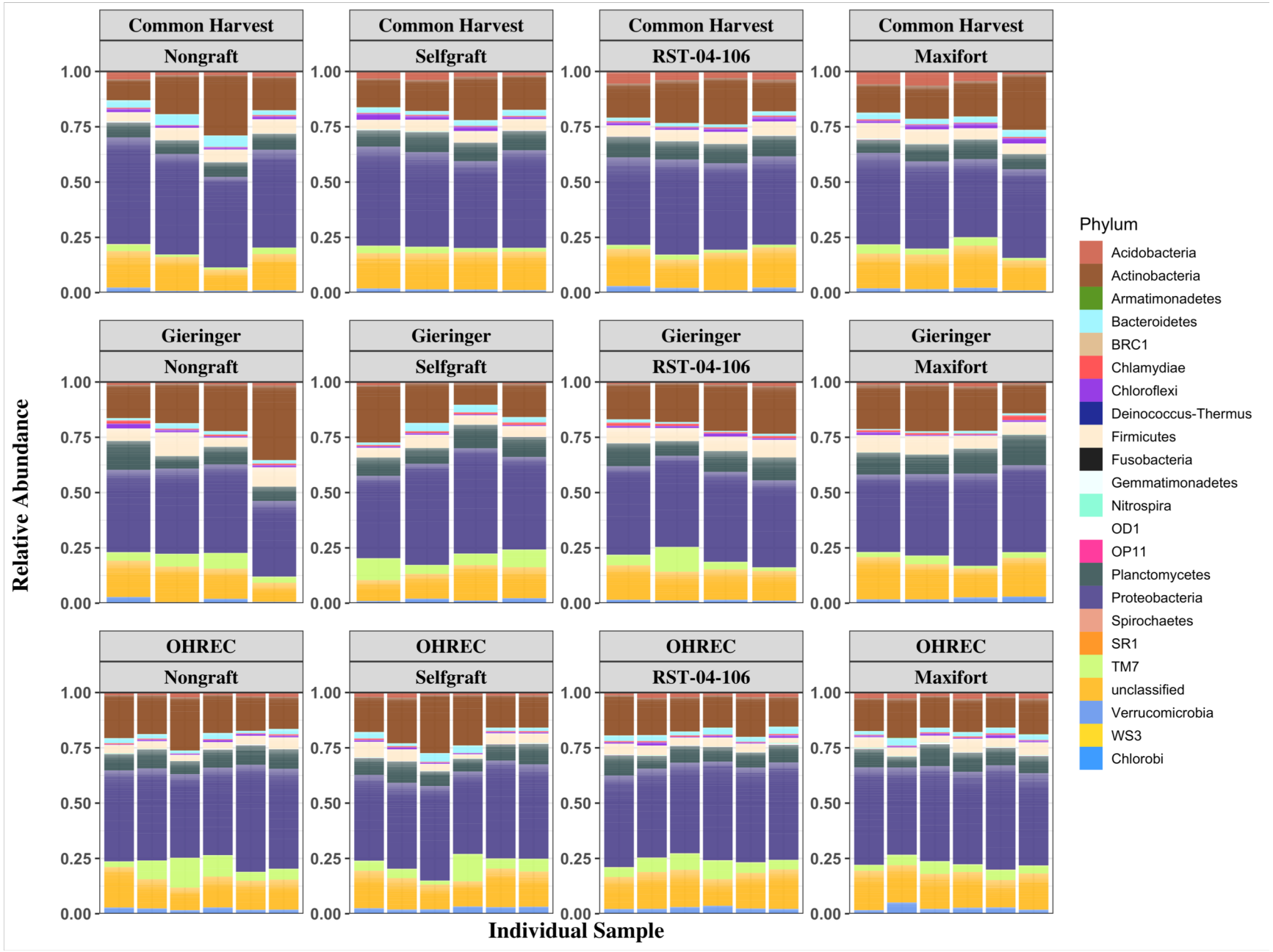

FIG S1 Continued.

D) 2015_Rhizosphere

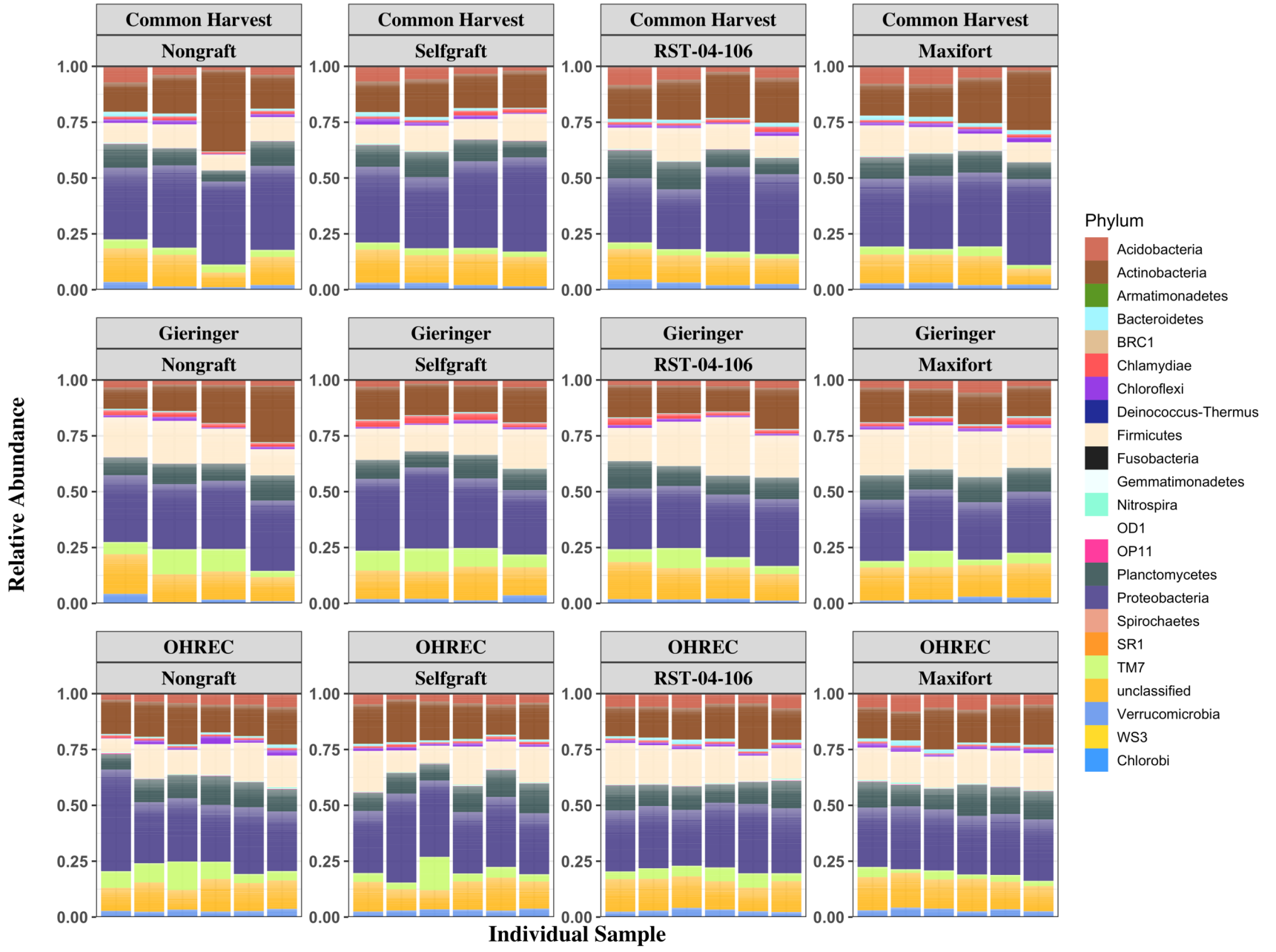

FIG S1 Continued.

Information about Supplemental Datasets

Dataset S1: Table displaying the bioinformatics pipeline used for analyzing sequence data using mothur.

Dataset S2: Table showing the endosphere and rhizosphere samples associated with four rootstocks across three study sites in the year 2014.

Dataset S3: Table showing the endosphere and rhizosphere samples associated with four rootstocks across three study sites in the year 2015.

Dataset S4: Ten most frequent OTUs observed for each rootstock treatment in the endosphere and the rhizosphere compartment.