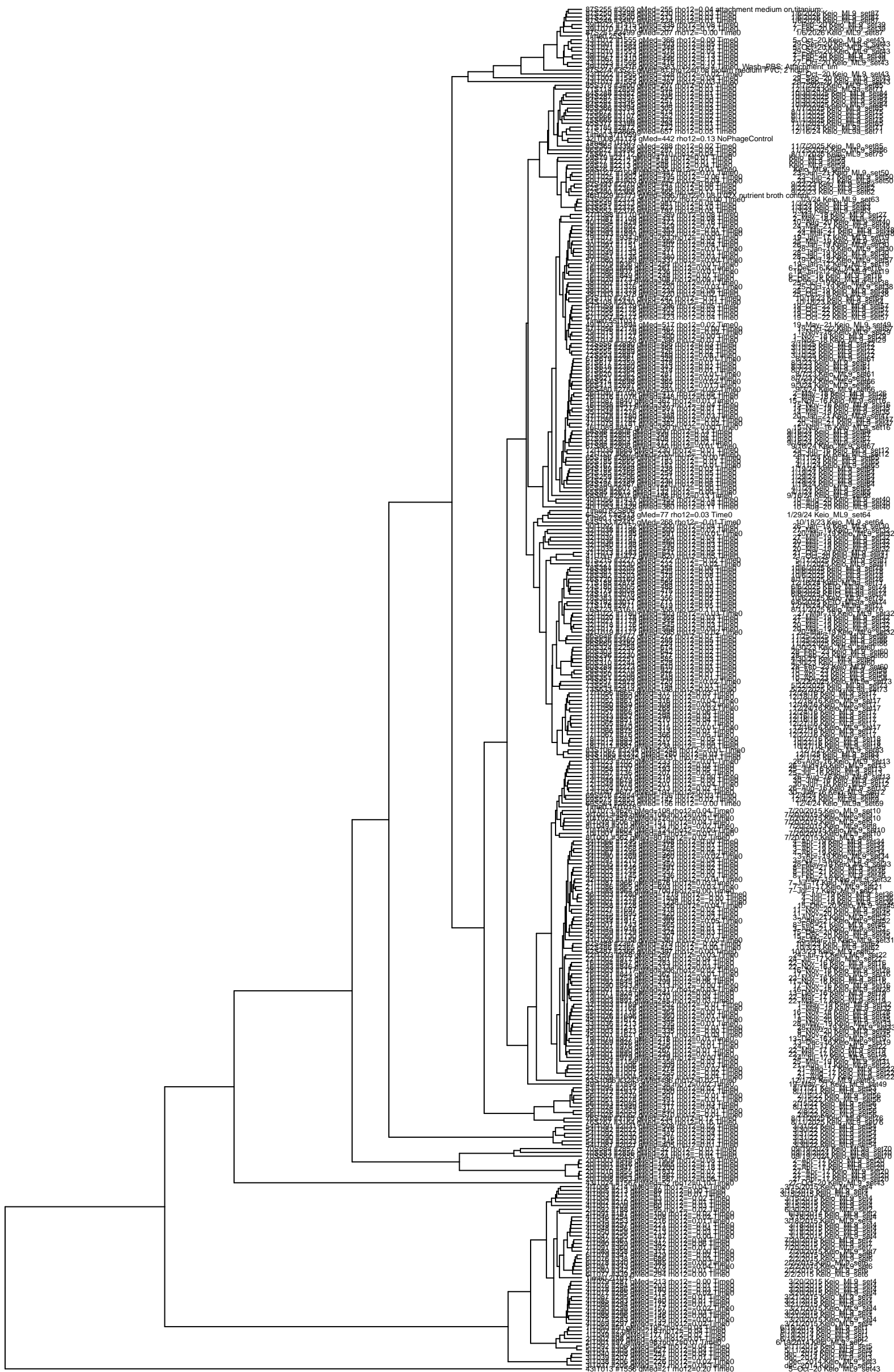
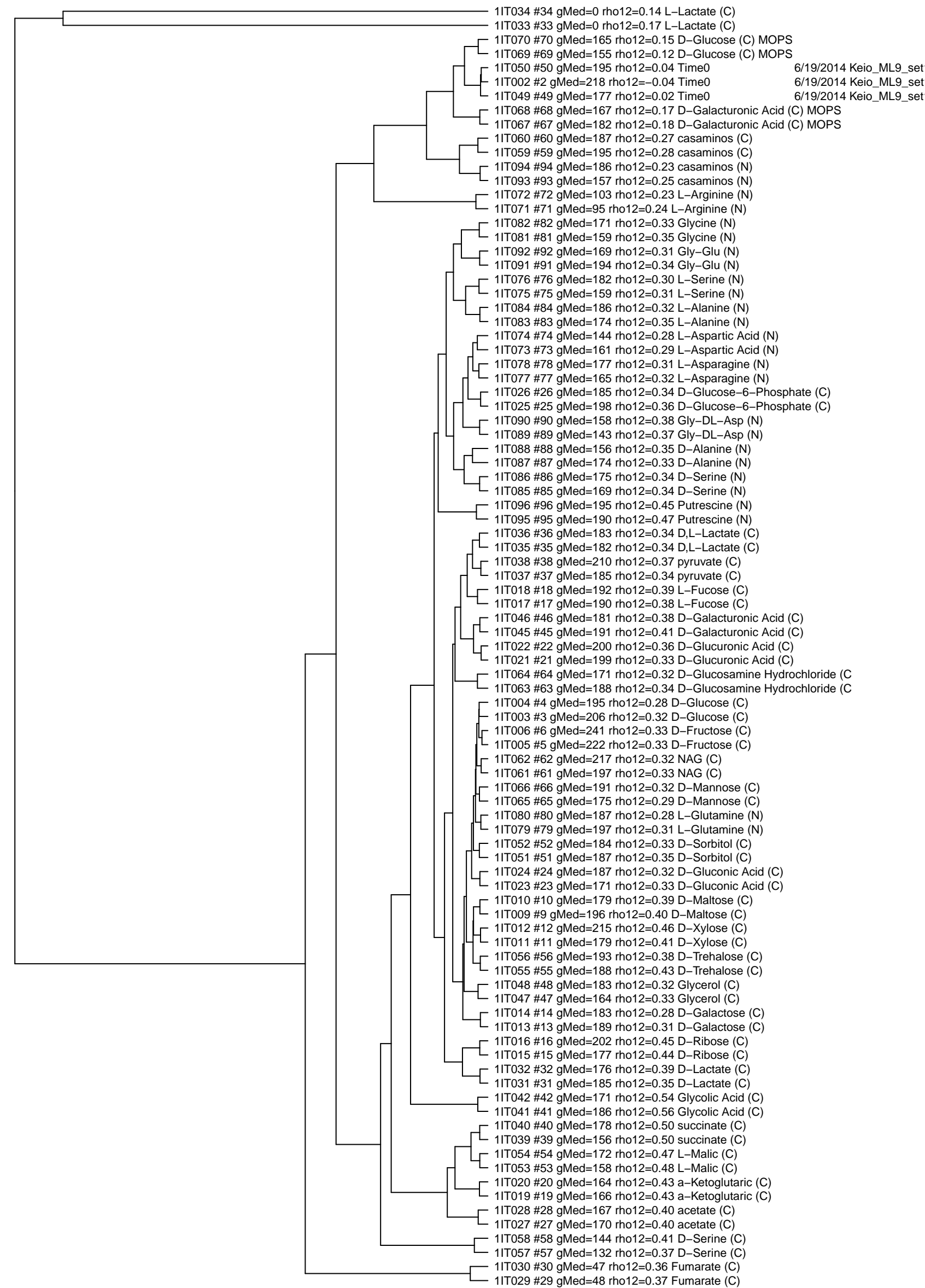


Time0 and similar samples
(clustered by log-count)



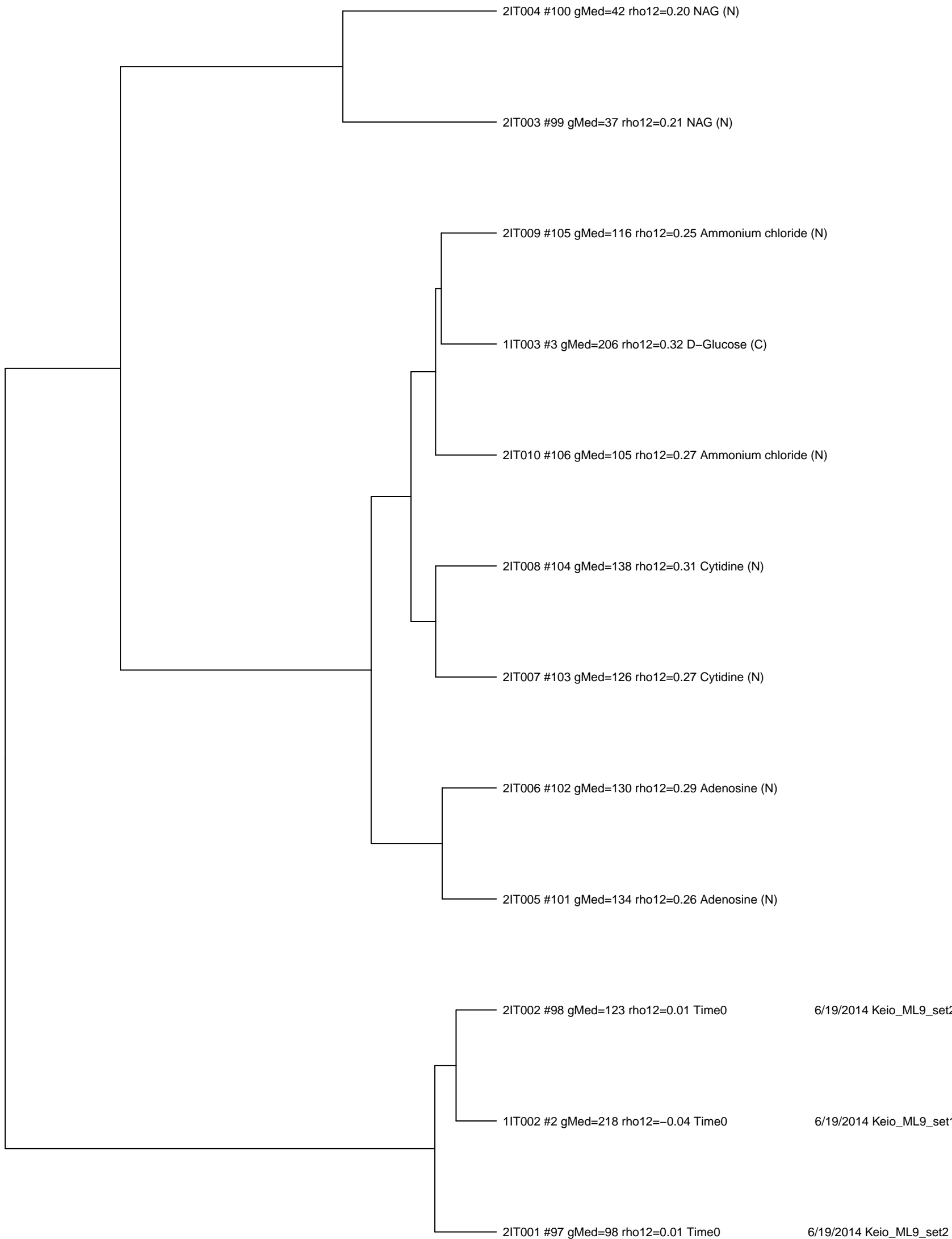
0.4 0.3 0.2 0.1 0.0

6/19/2014 Keio_ML9_set1 and similar samples
(clustered by log-count)



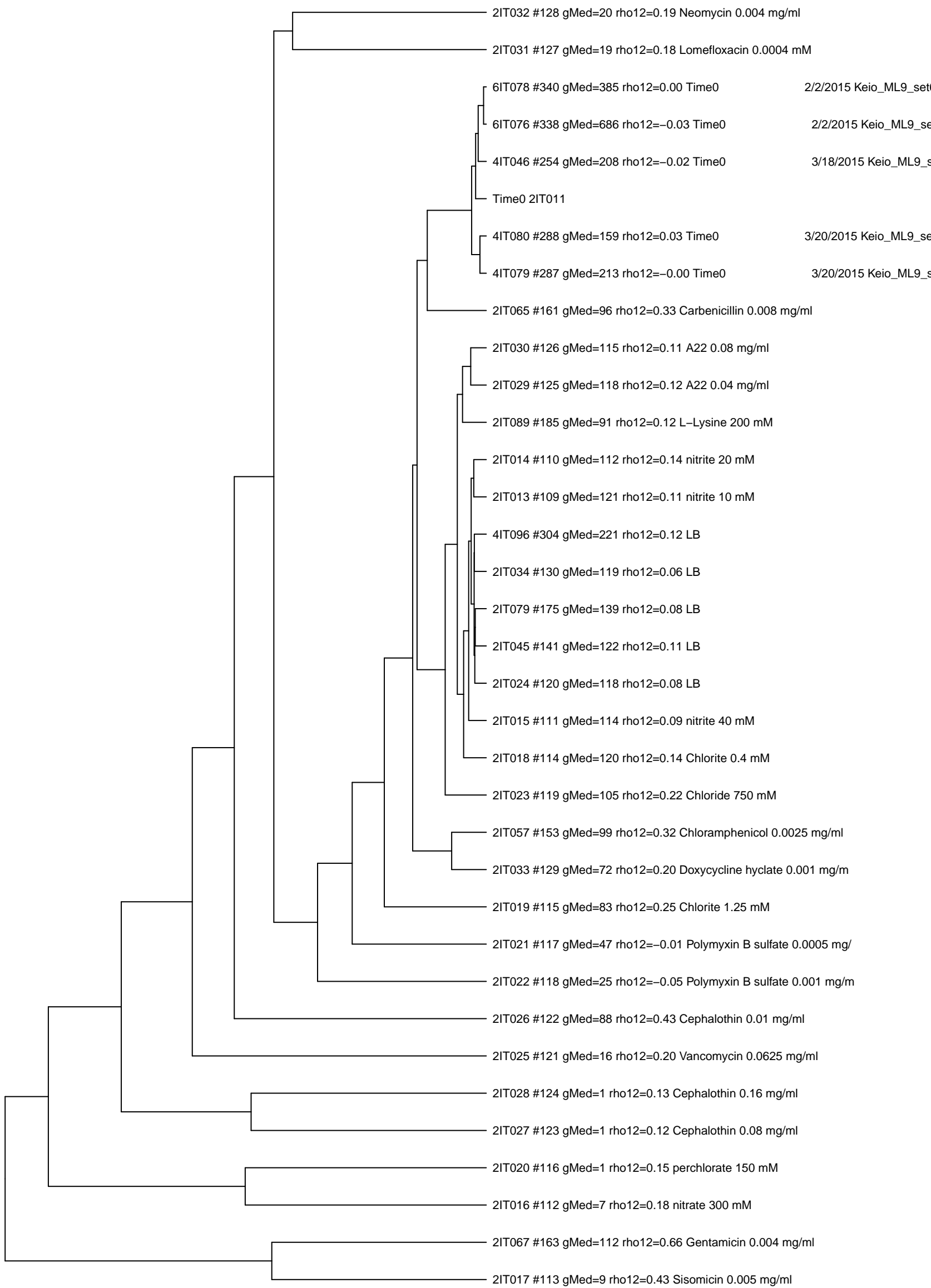
0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

6/19/2014 Keio_ML9_set2 and similar samples
(clustered by log-count)



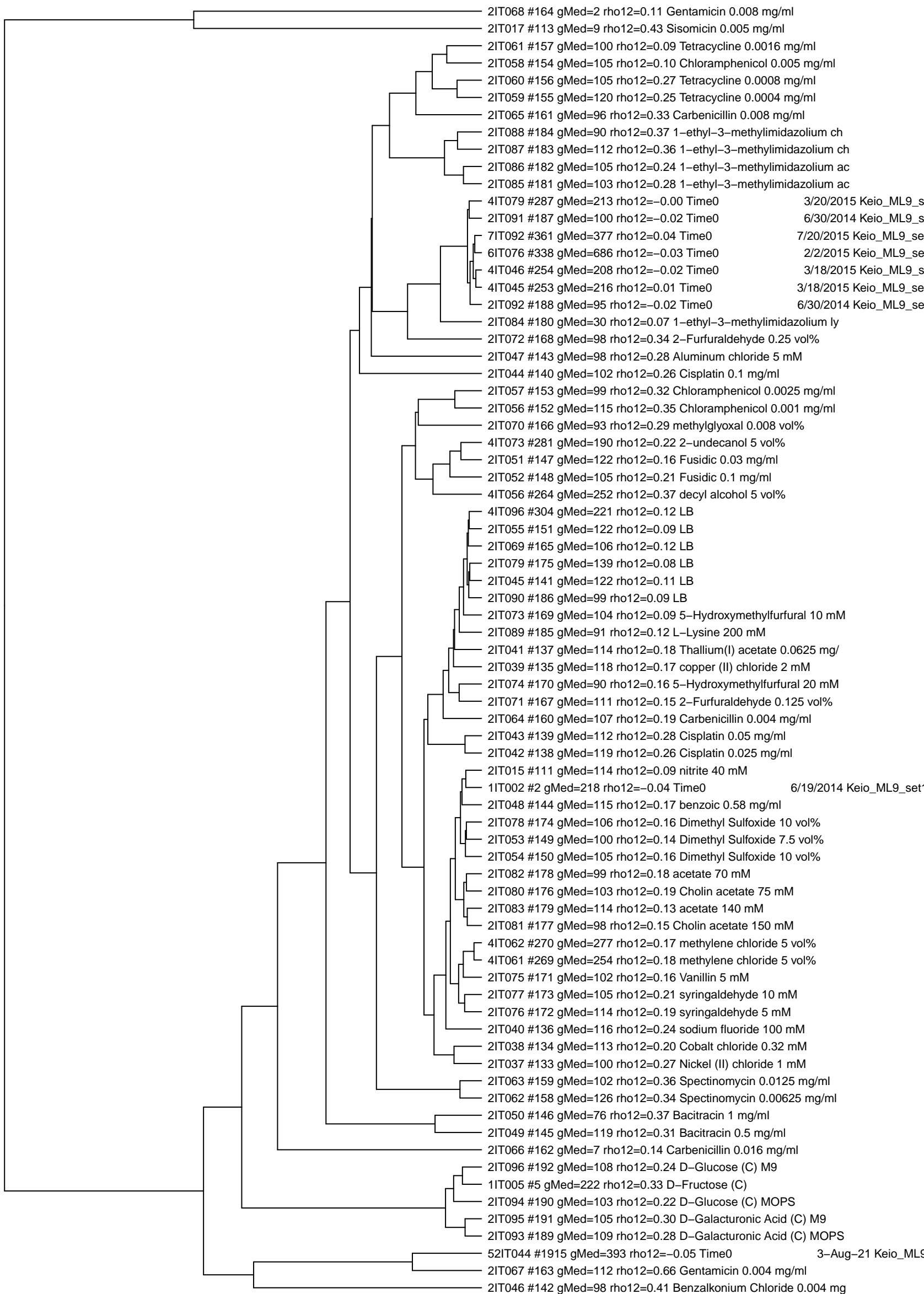
0.12 0.10 0.08 0.06 0.04 0.02 0.00

6/24/2014 Keio_ML9_set2 and similar samples
(clustered by log-count)



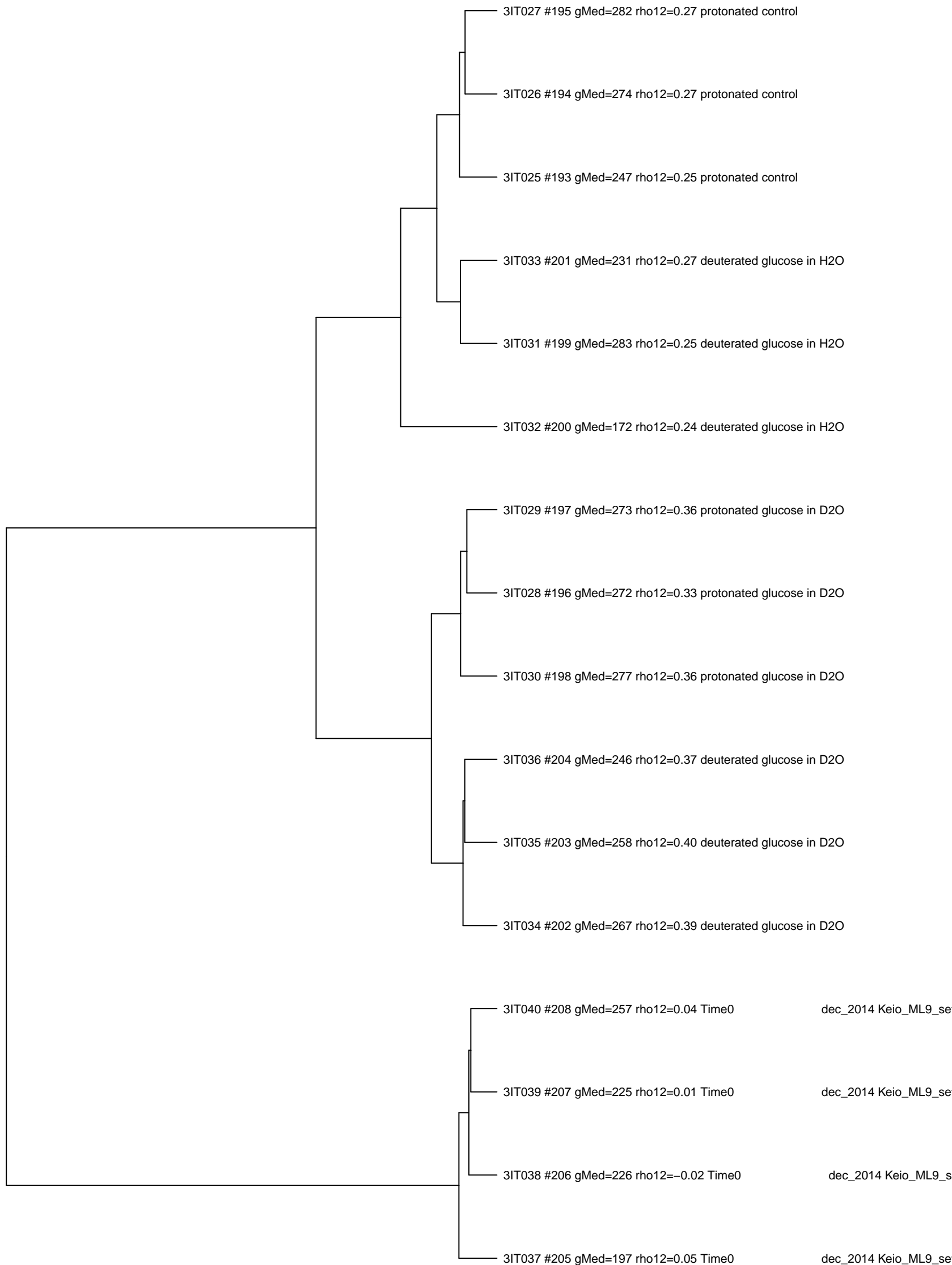
0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

6/30/2014 Keio_ML9_set2 and similar samples
(clustered by log-count)



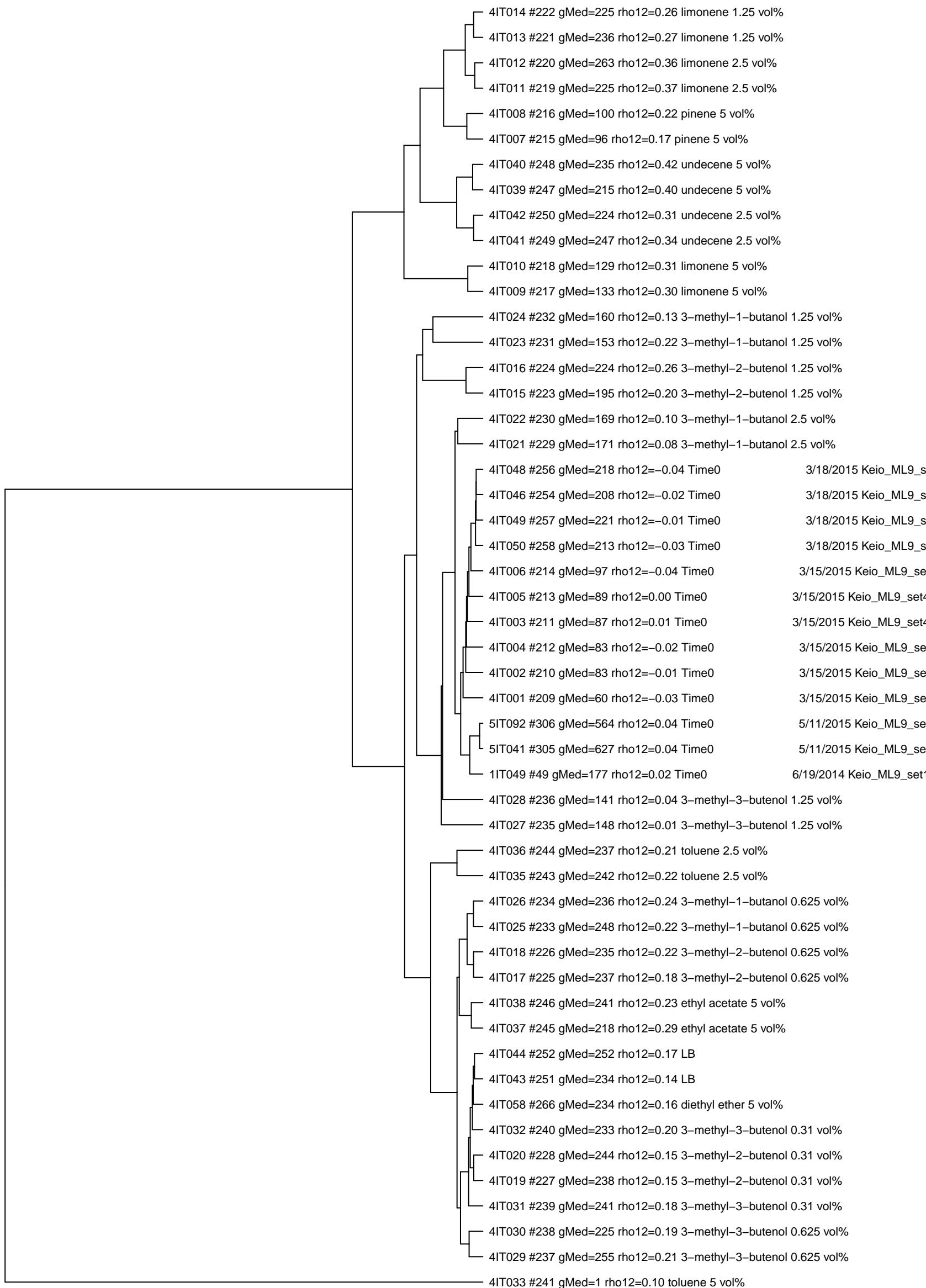
0.6 0.5 0.4 0.3 0.2 0.1 0.0

dec_2014 Keio_ML9_set3 and similar samples
(clustered by log-count)



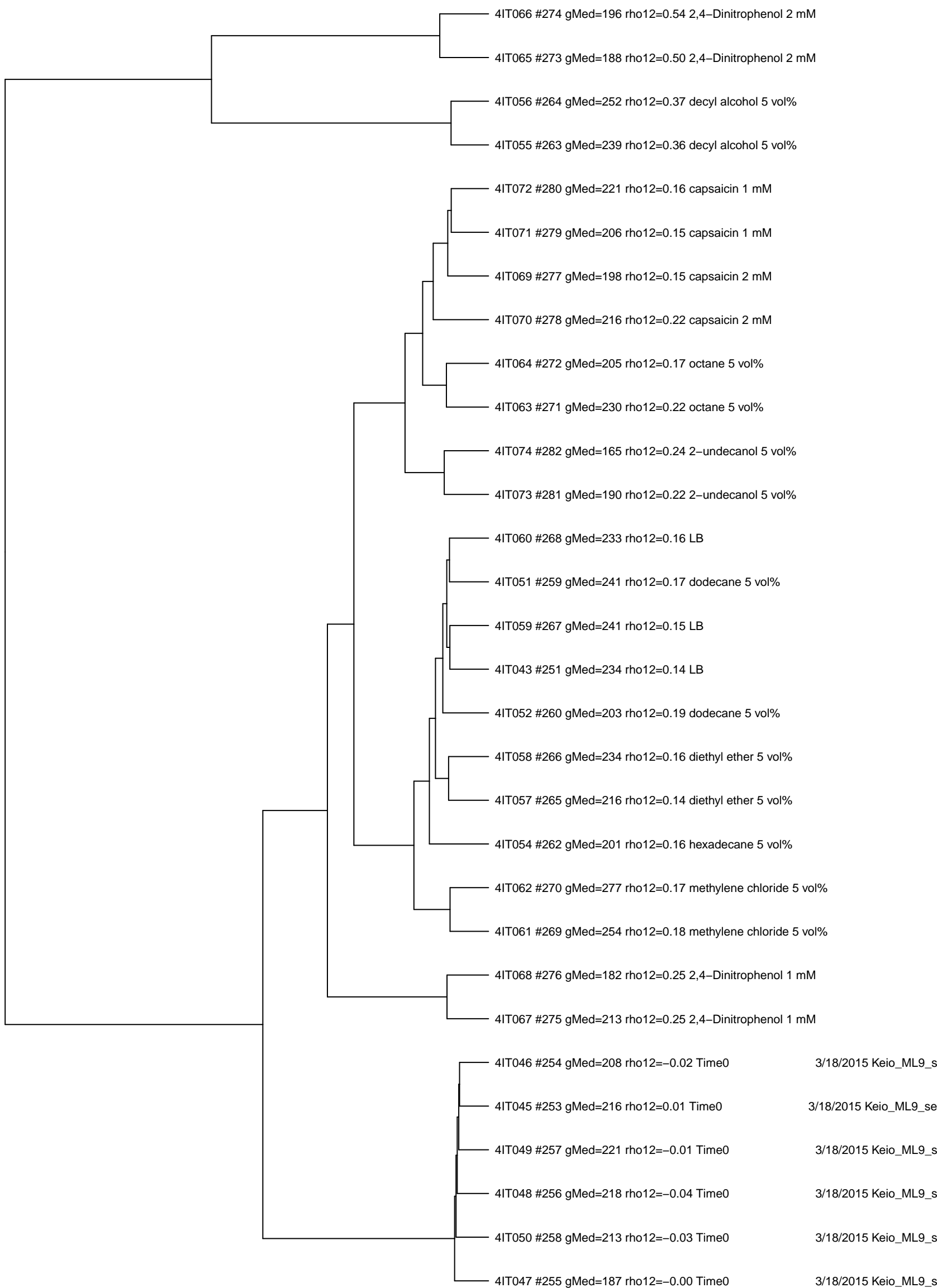
0.14 0.12 0.10 0.08 0.06 0.04 0.02 0.00

3/15/2015 Keio_ML9_set4 and similar samples
(clustered by log-count)



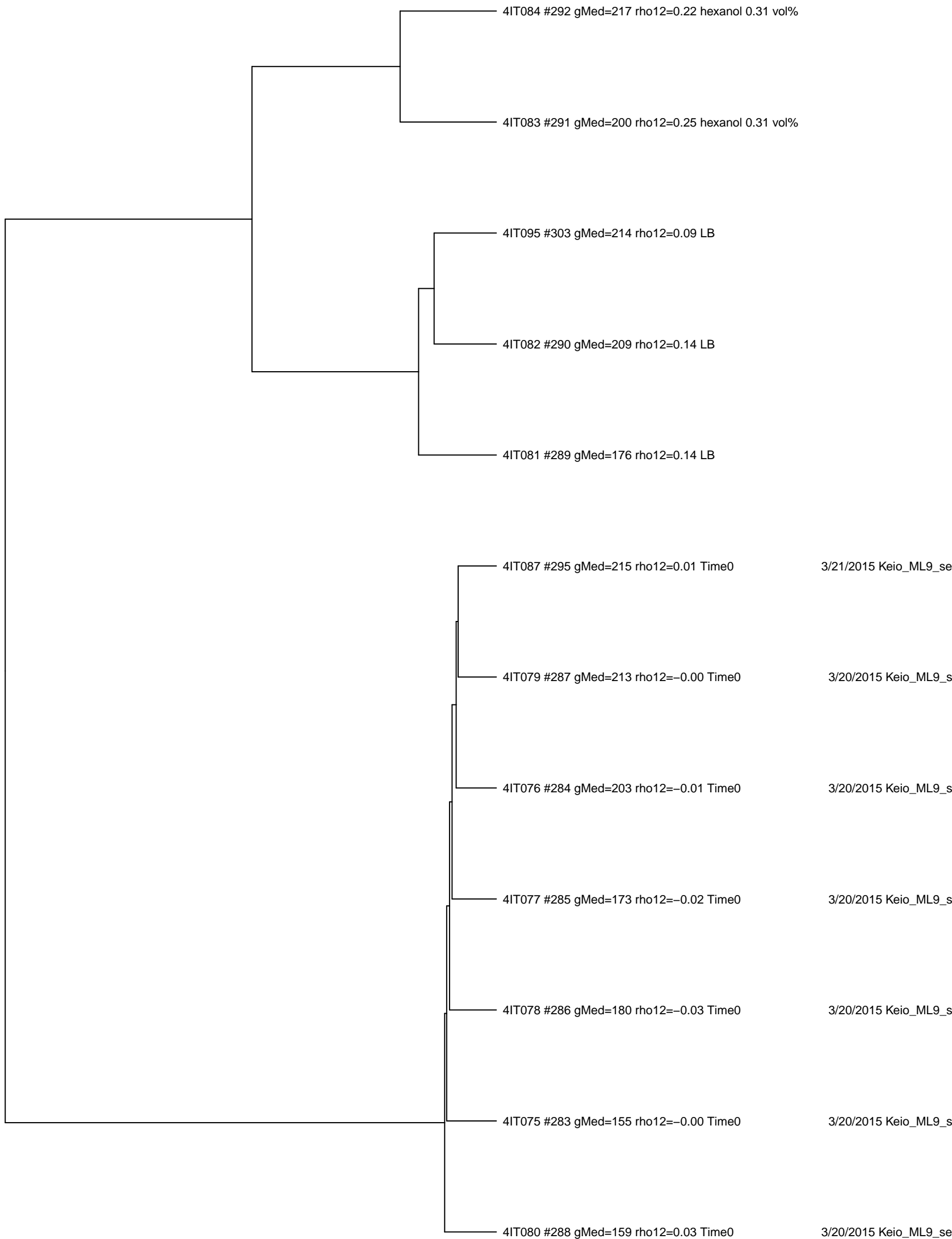
0.5 0.4 0.3 0.2 0.1 0.0

3/18/2015 Keio_ML9_set4 and similar samples
(clustered by log-count)



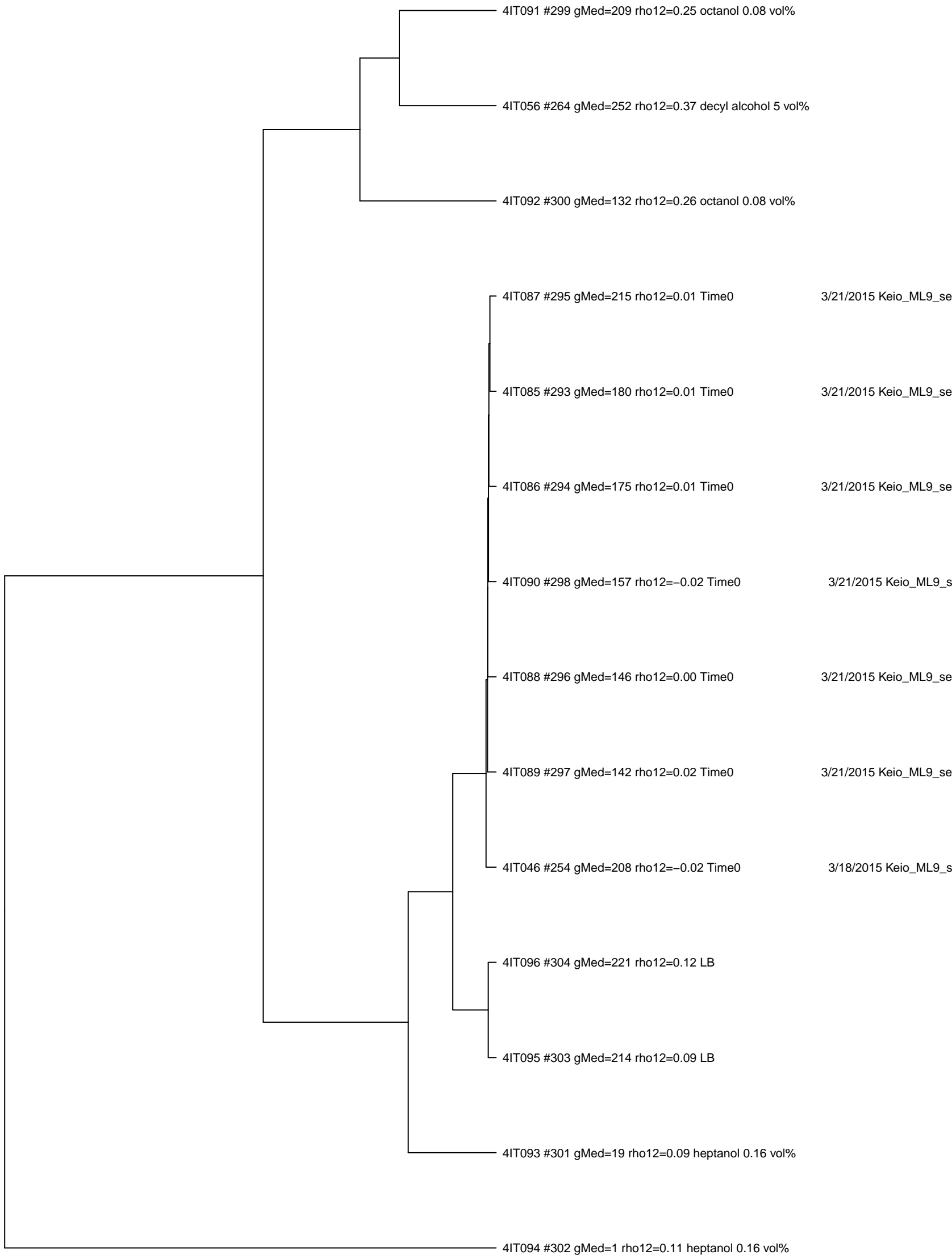
0.12 0.10 0.08 0.06 0.04 0.02 0.00

3/20/2015 Keio_ML9_set4 and similar samples
(clustered by log-count)



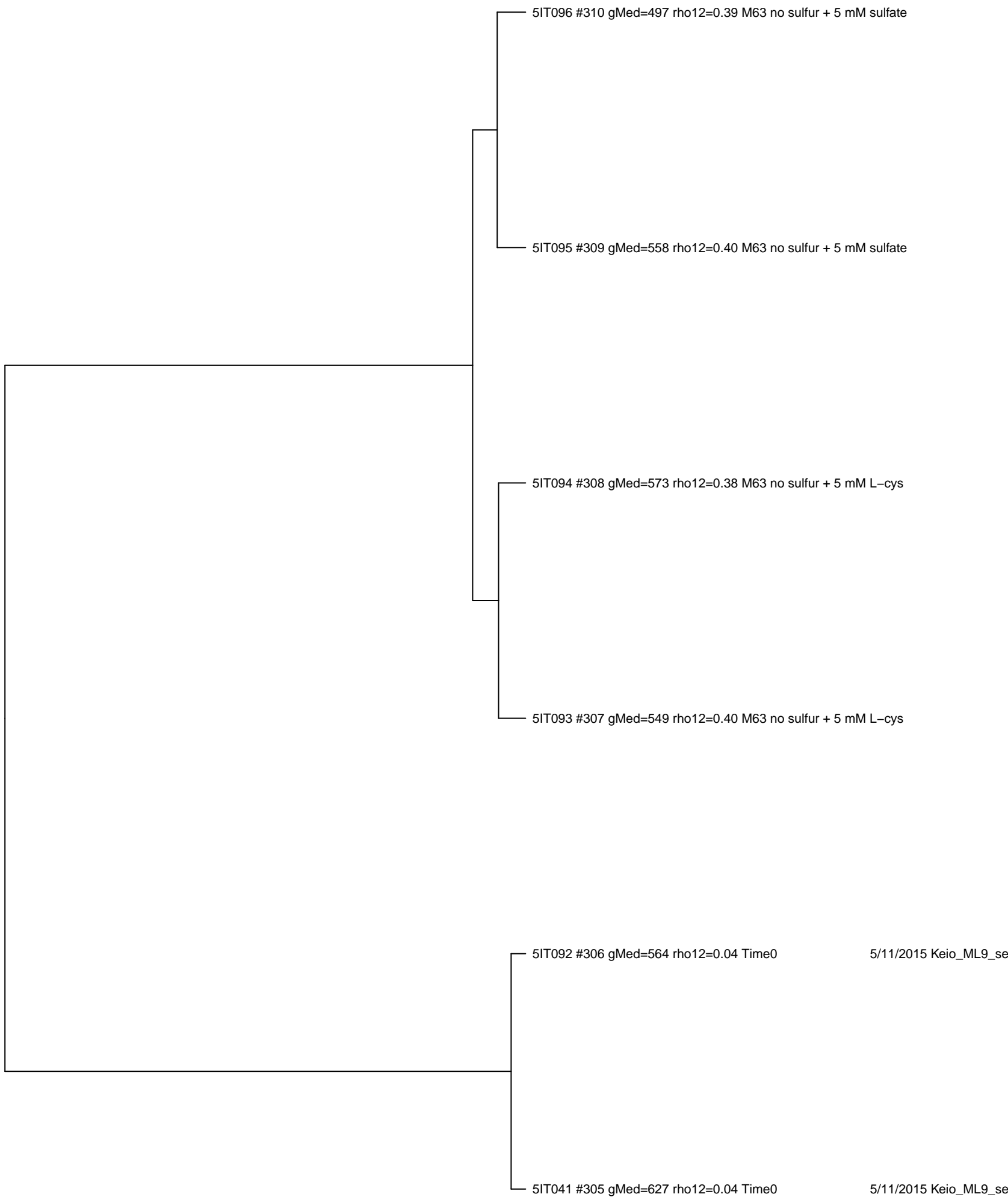
0.10 0.08 0.06 0.04 0.02 0.00

3/21/2015 Keio_ML9_set4 and similar samples
(clustered by log-count)



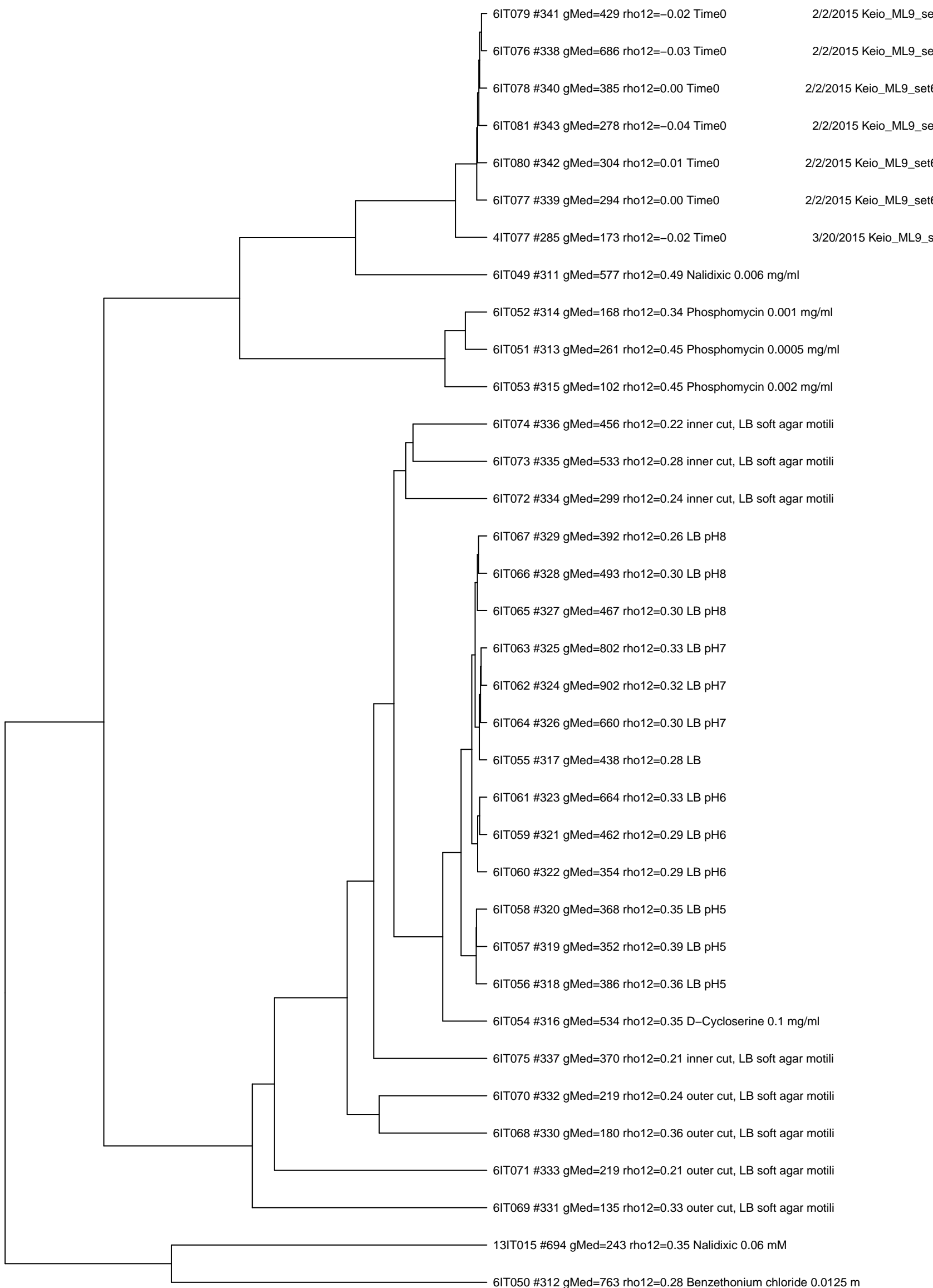
0.6 0.5 0.4 0.3 0.2 0.1 0.0

5/11/2015 Keio_ML9_set5 and similar samples
(clustered by log-count)



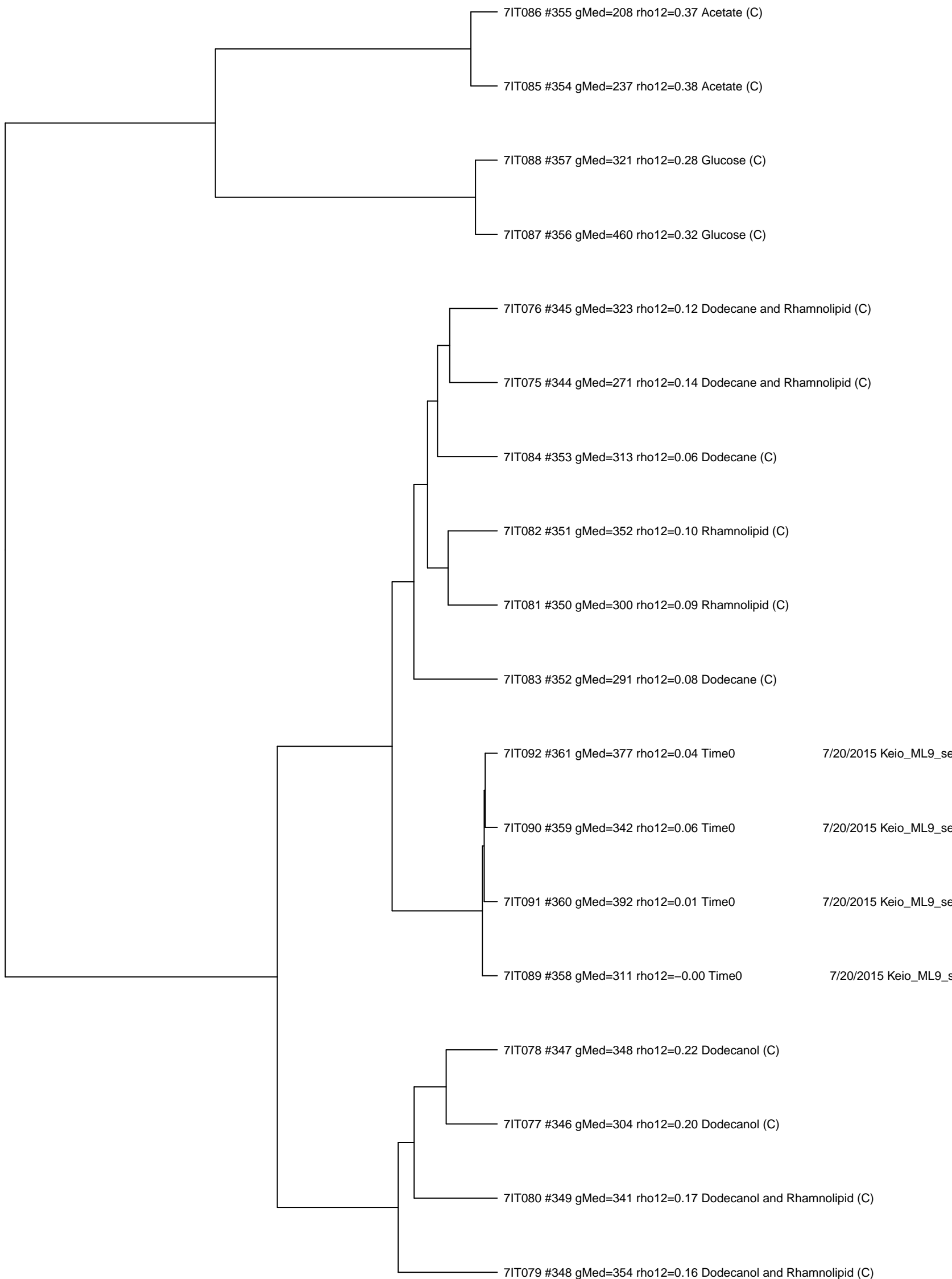
0.12 0.10 0.08 0.06 0.04 0.02 0.00

2/2/2015 Keio_ML9_set6 and similar samples
(clustered by log-count)



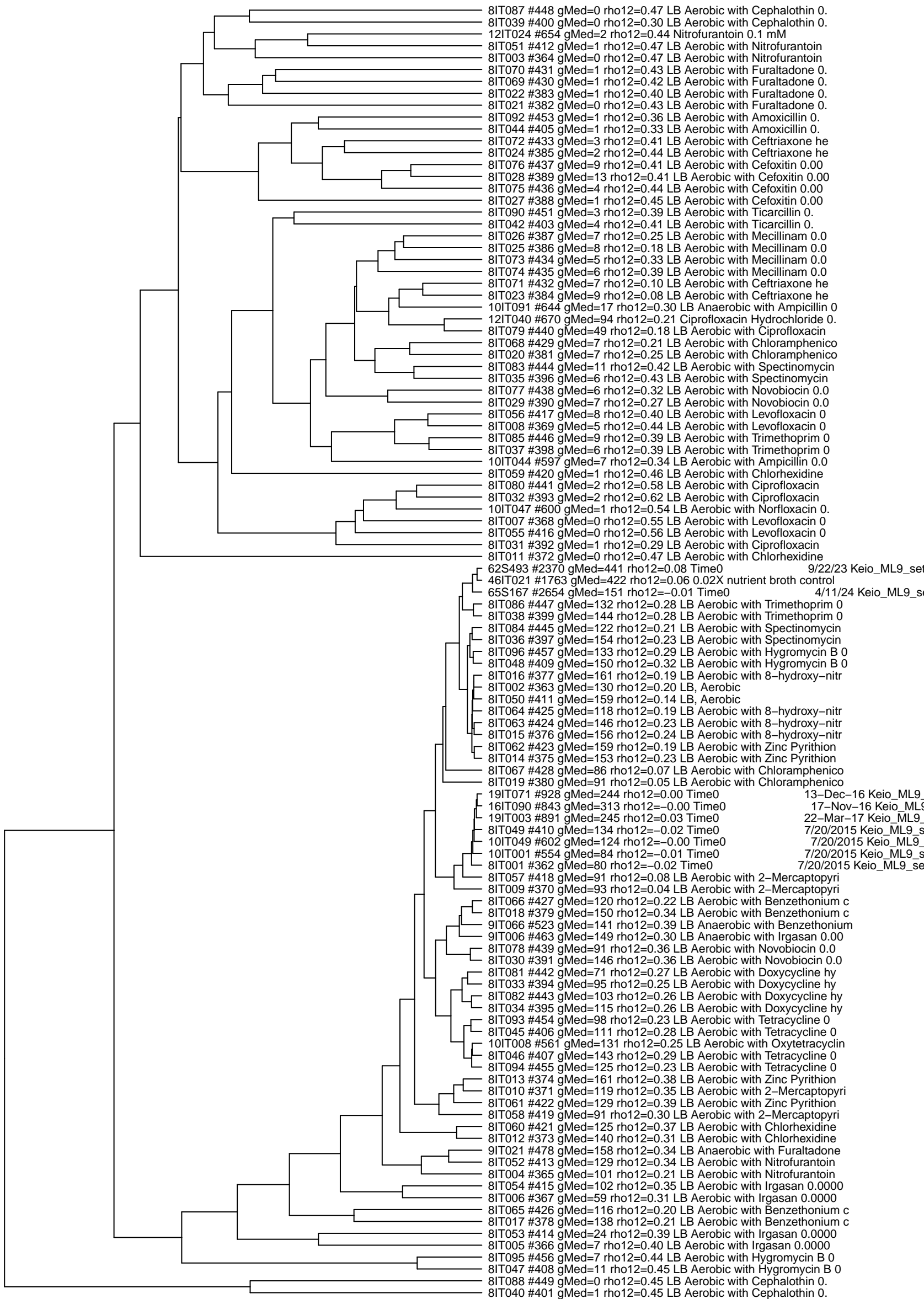
0.30 0.25 0.20 0.15 0.10 0.05 0.00

7/20/2015 Keio_ML9_set7 and similar samples
(clustered by log-count)



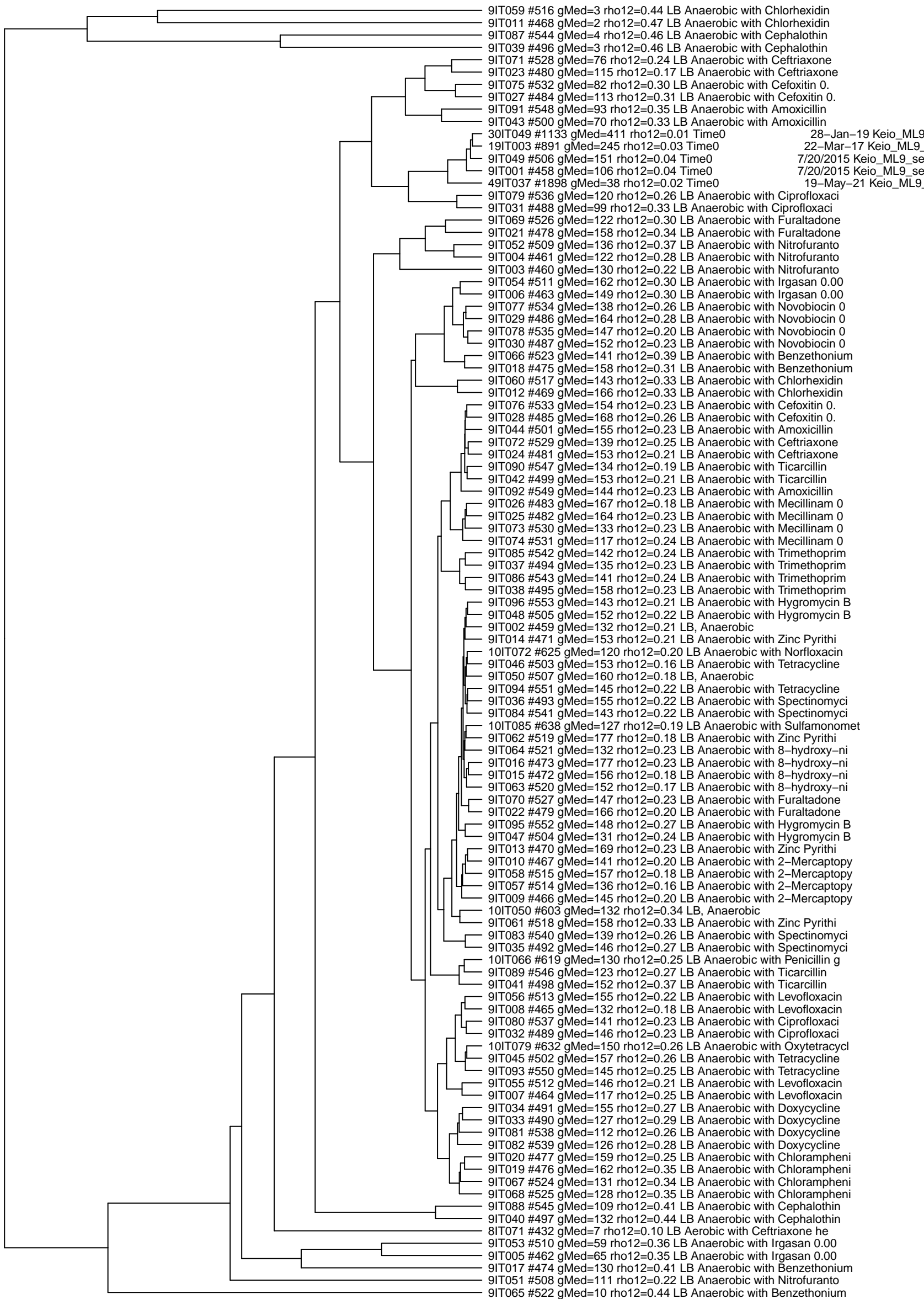
0.20 0.15 0.10 0.05 0.00

7/20/2015 Keio_ML9_set8 and similar samples
(clustered by log-count)



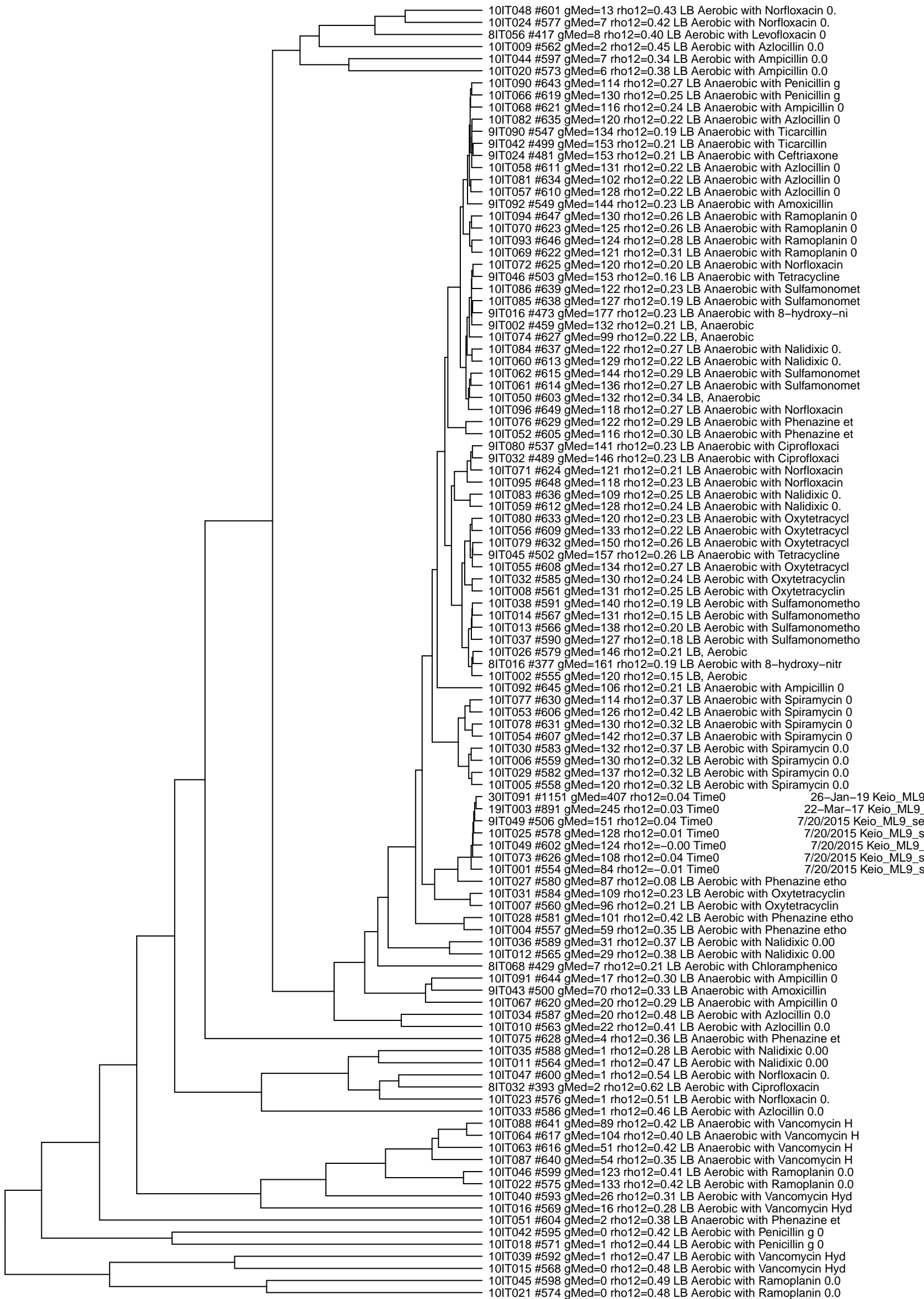
0.8 0.6 0.4 0.2 0.0

7/20/2015 Keio_ML9_set9 and similar samples
(clustered by log-count)



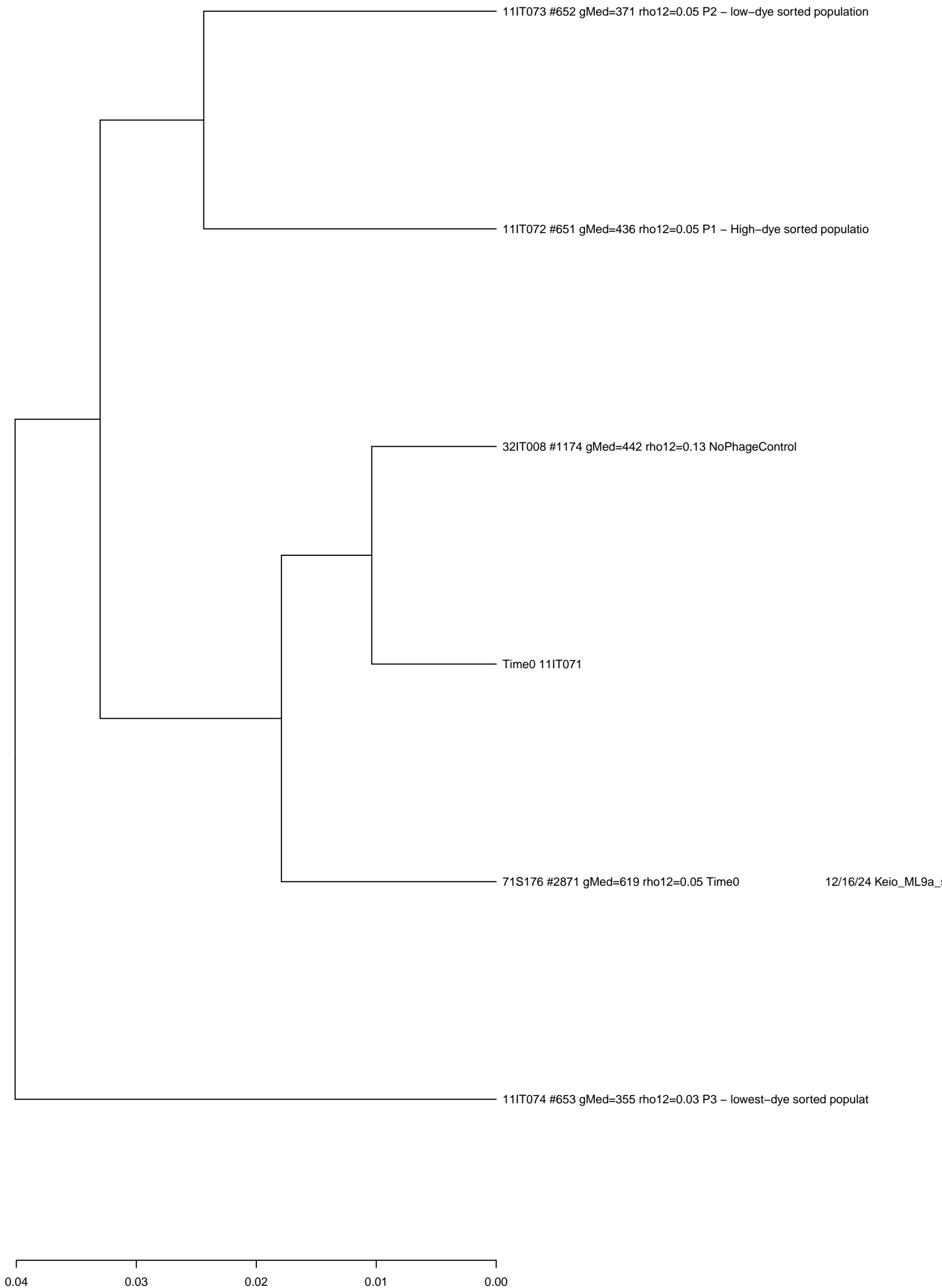
0.4 0.3 0.2 0.1 0.0

7/20/2015 Keio_ML9_set10 and similar samples
(clustered by log-count)

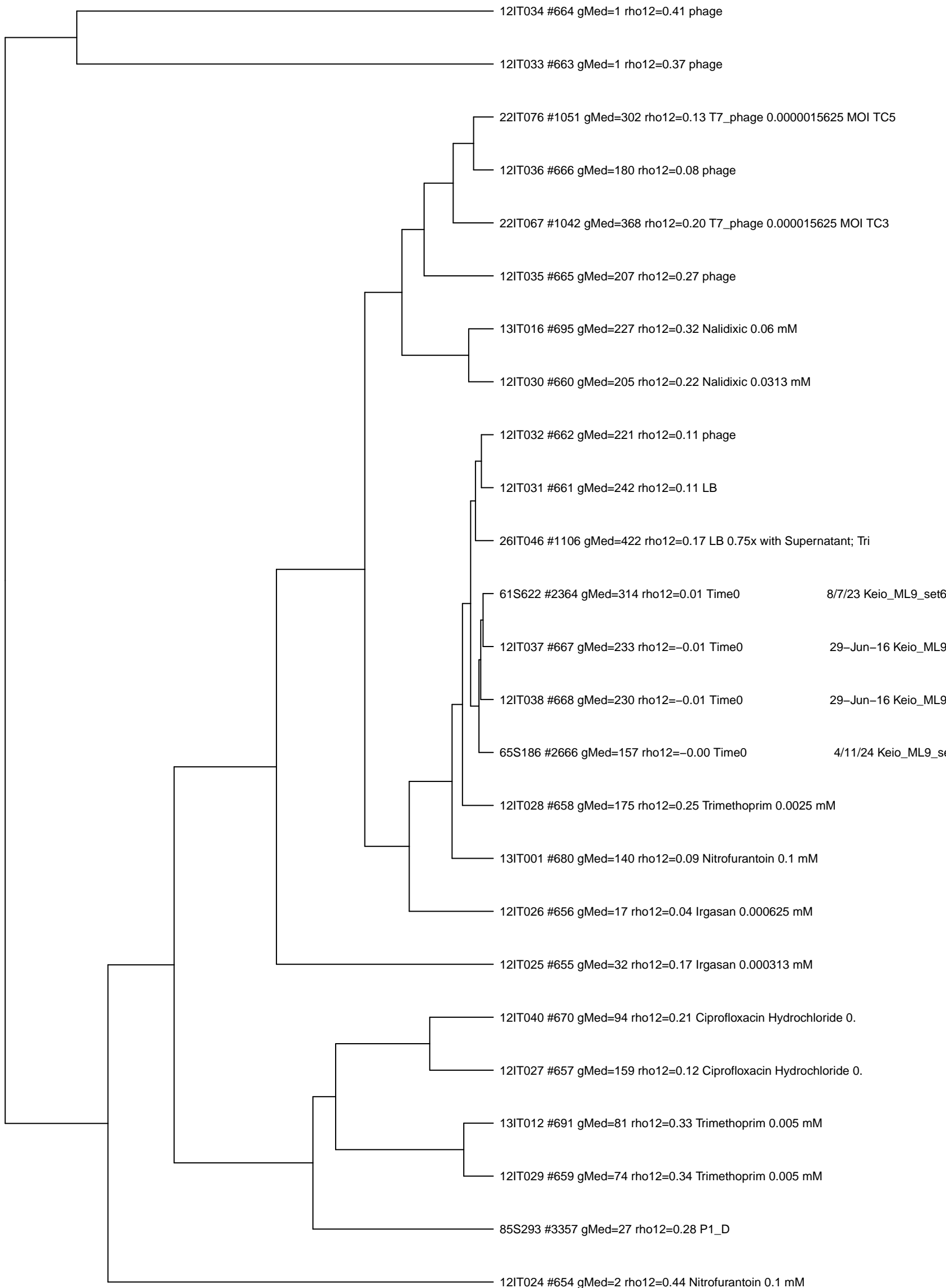


0.6 0.4 0.2 0.0

1-Jun-16 Keio_ML9_set11 and similar samples
(clustered by log-count)

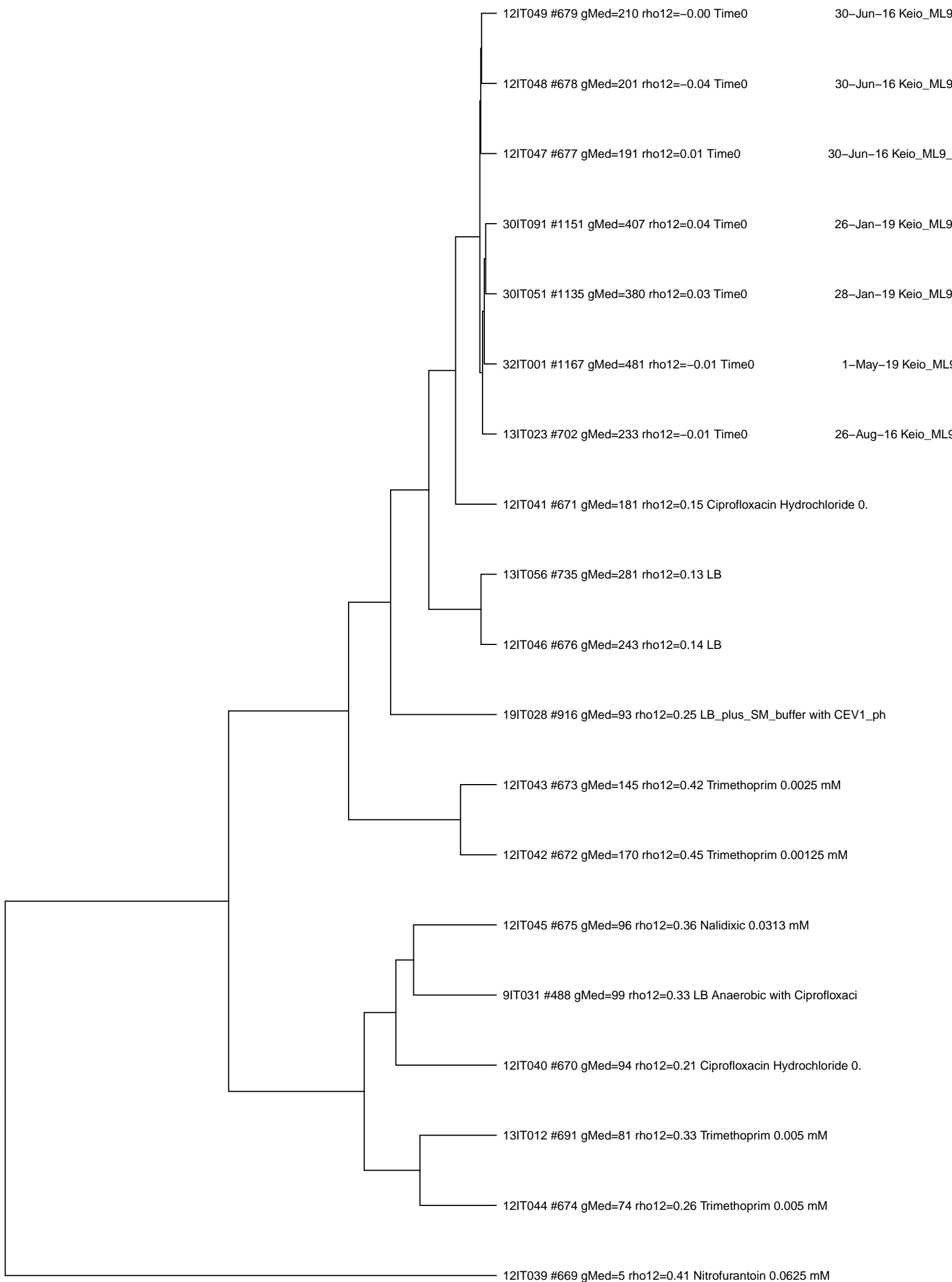


29-Jun-16 Keio_ML9_set12 and similar samples
(clustered by log-count)



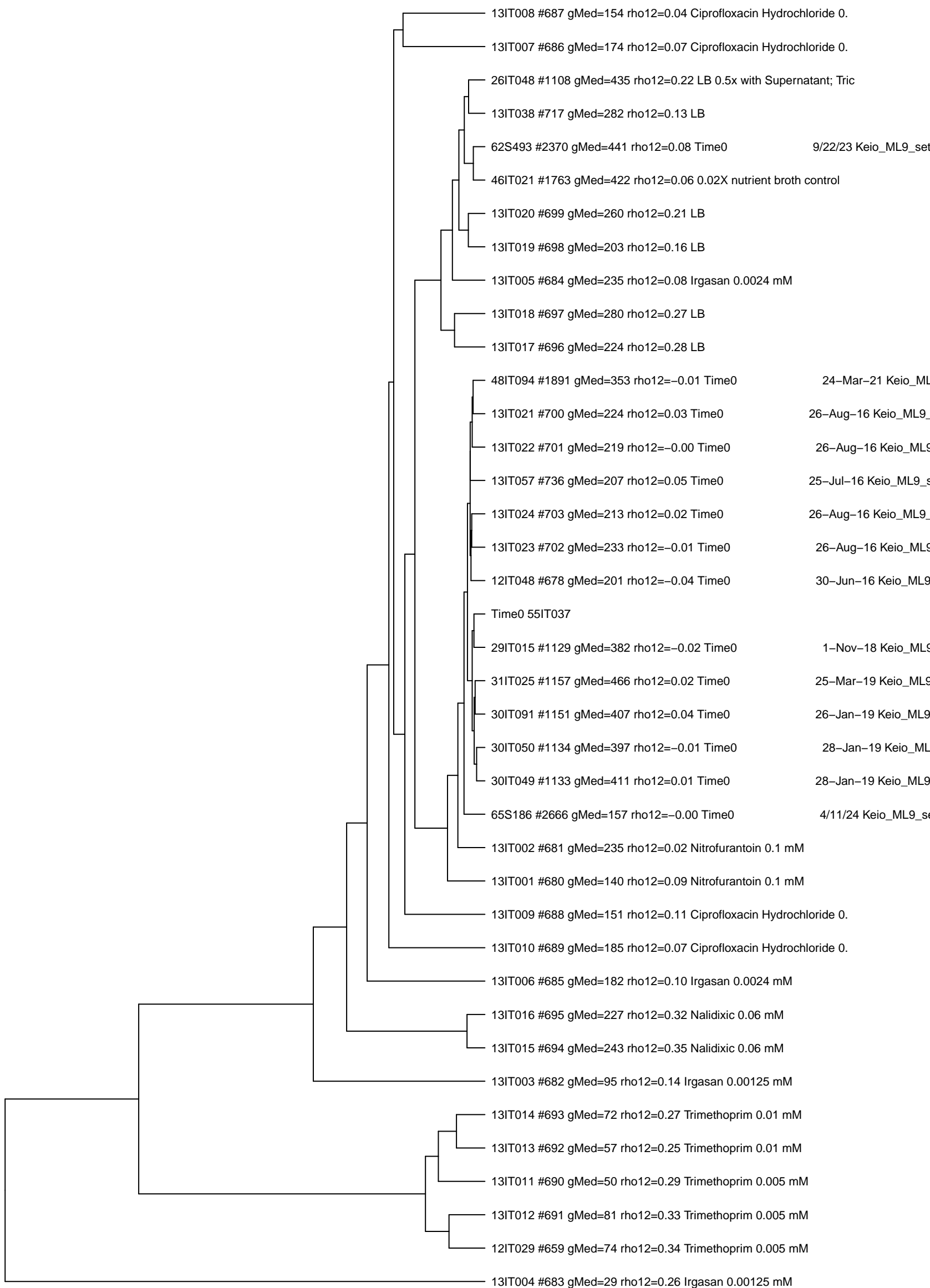
0.4 0.3 0.2 0.1 0.0

30-Jun-16 Keio_ML9_set12 and similar samples
(clustered by log-count)



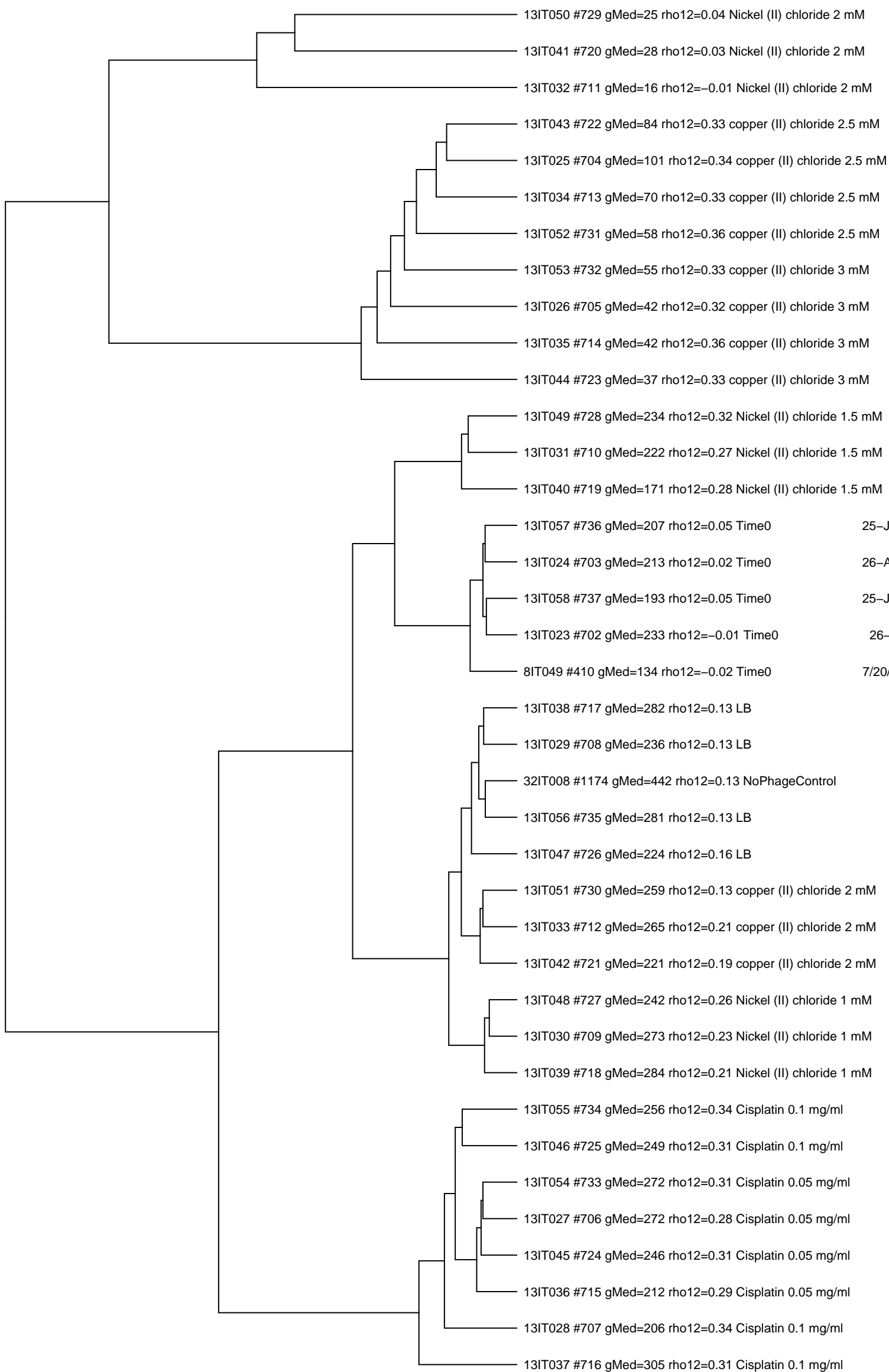
0.30 0.25 0.20 0.15 0.10 0.05 0.00

26-Aug-16 Keio_ML9_set13 and similar samples
(clustered by log-count)



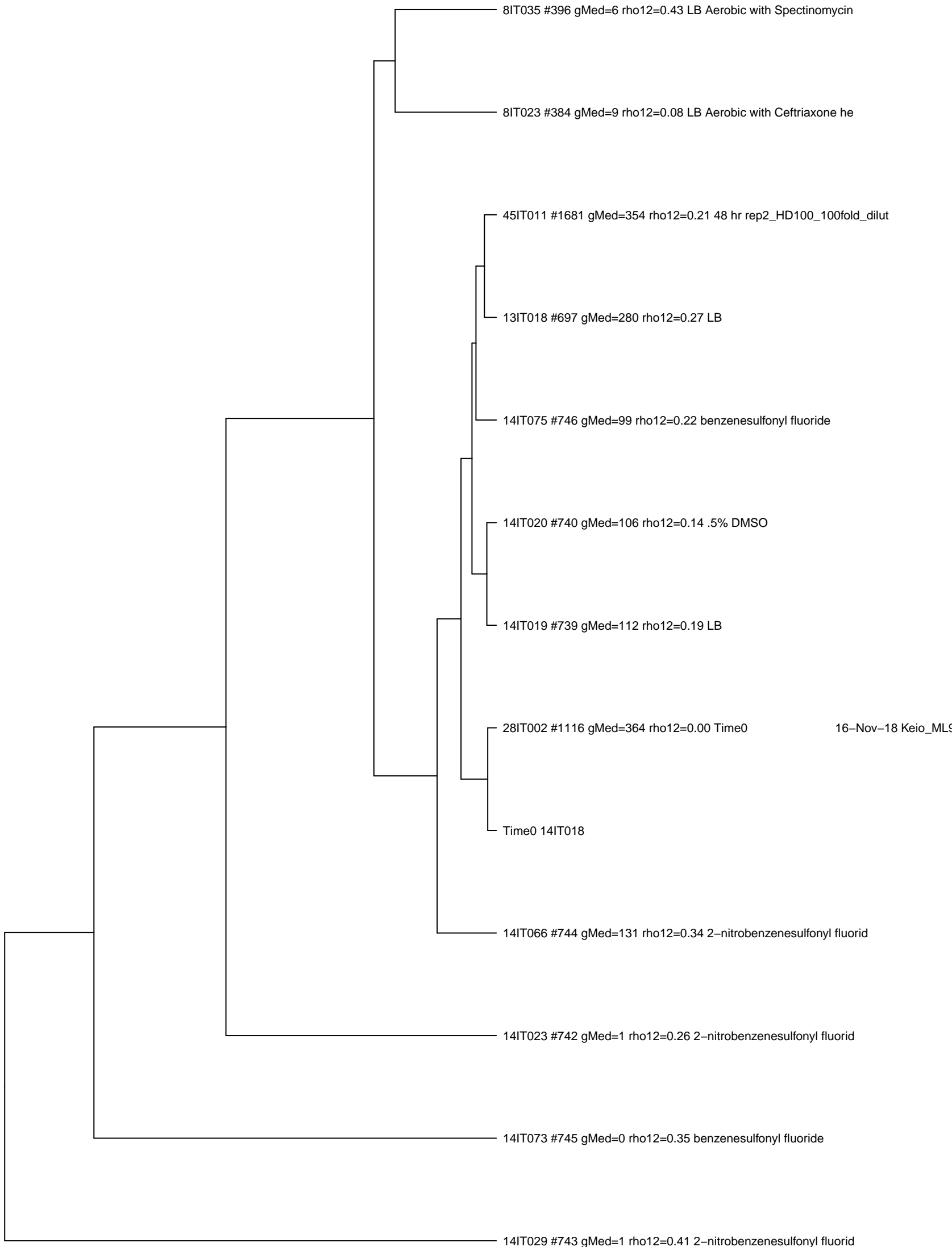
0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00

25-Jul-16 Keio_ML9_set13 and similar samples
(clustered by log-count)



0.15 0.10 0.05 0.00

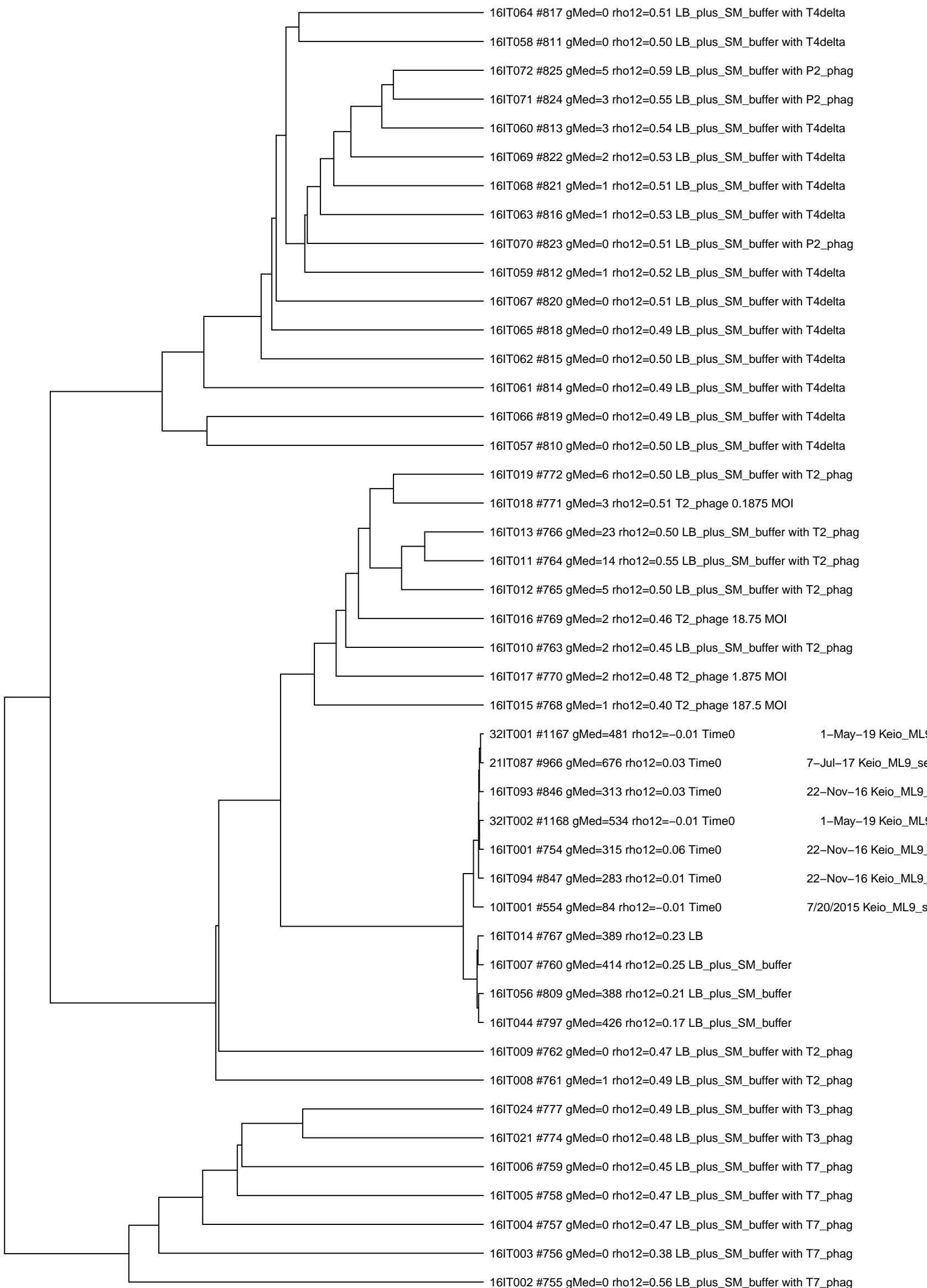
10/07/16 Keio_ML9_set14 and similar samples
(clustered by log-count)



16-Nov-18 Keio_ML9

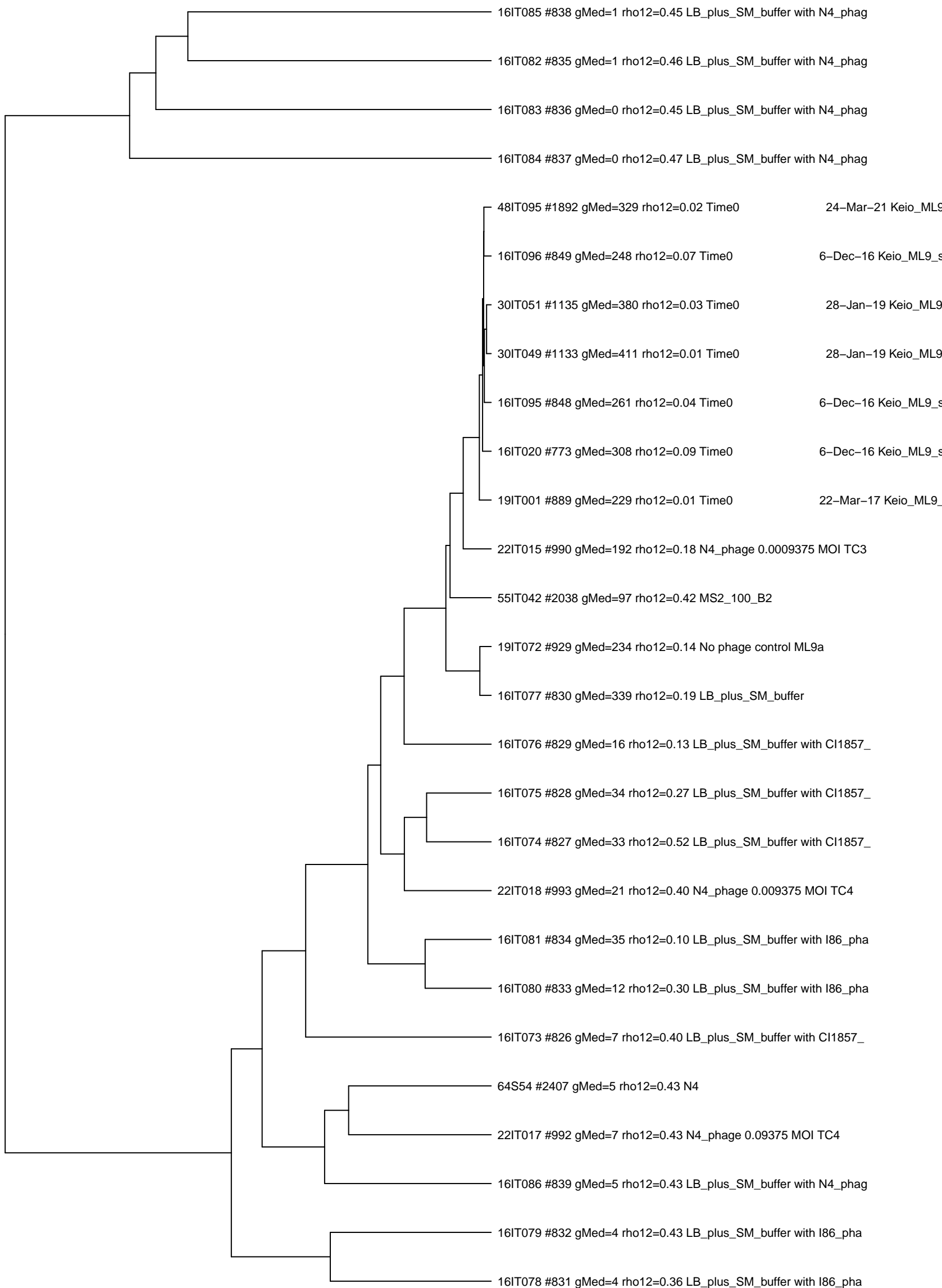
0.8 0.6 0.4 0.2 0.0

22-Nov-16 Keio_ML9_set16 and similar samples
(clustered by log-count)



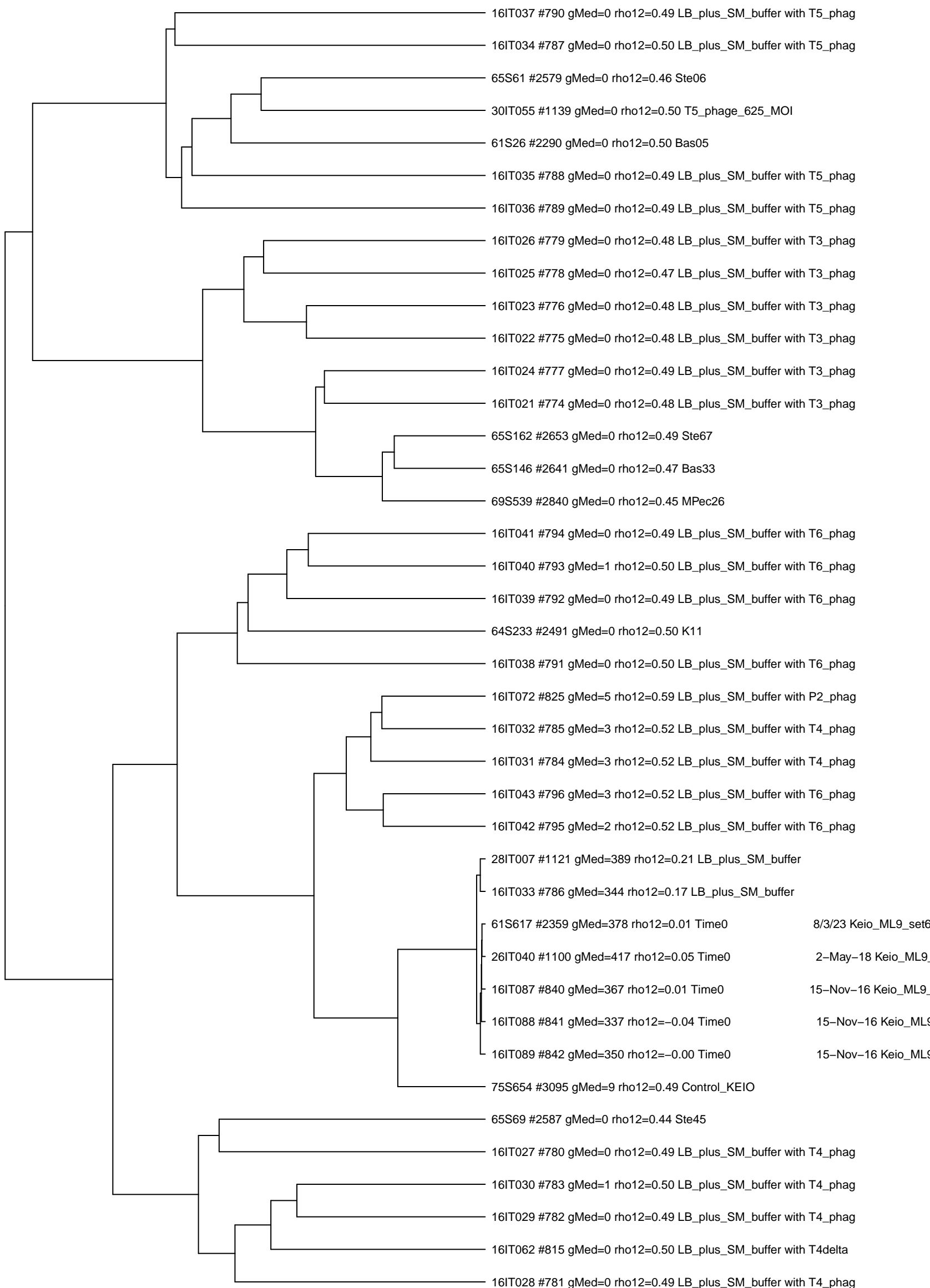
0.8 0.6 0.4 0.2 0.0

6-Dec-16 Keio_ML9_set16 and similar samples
(clustered by log-count)



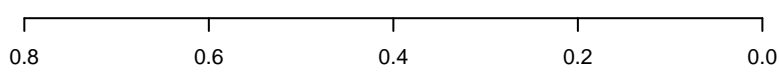
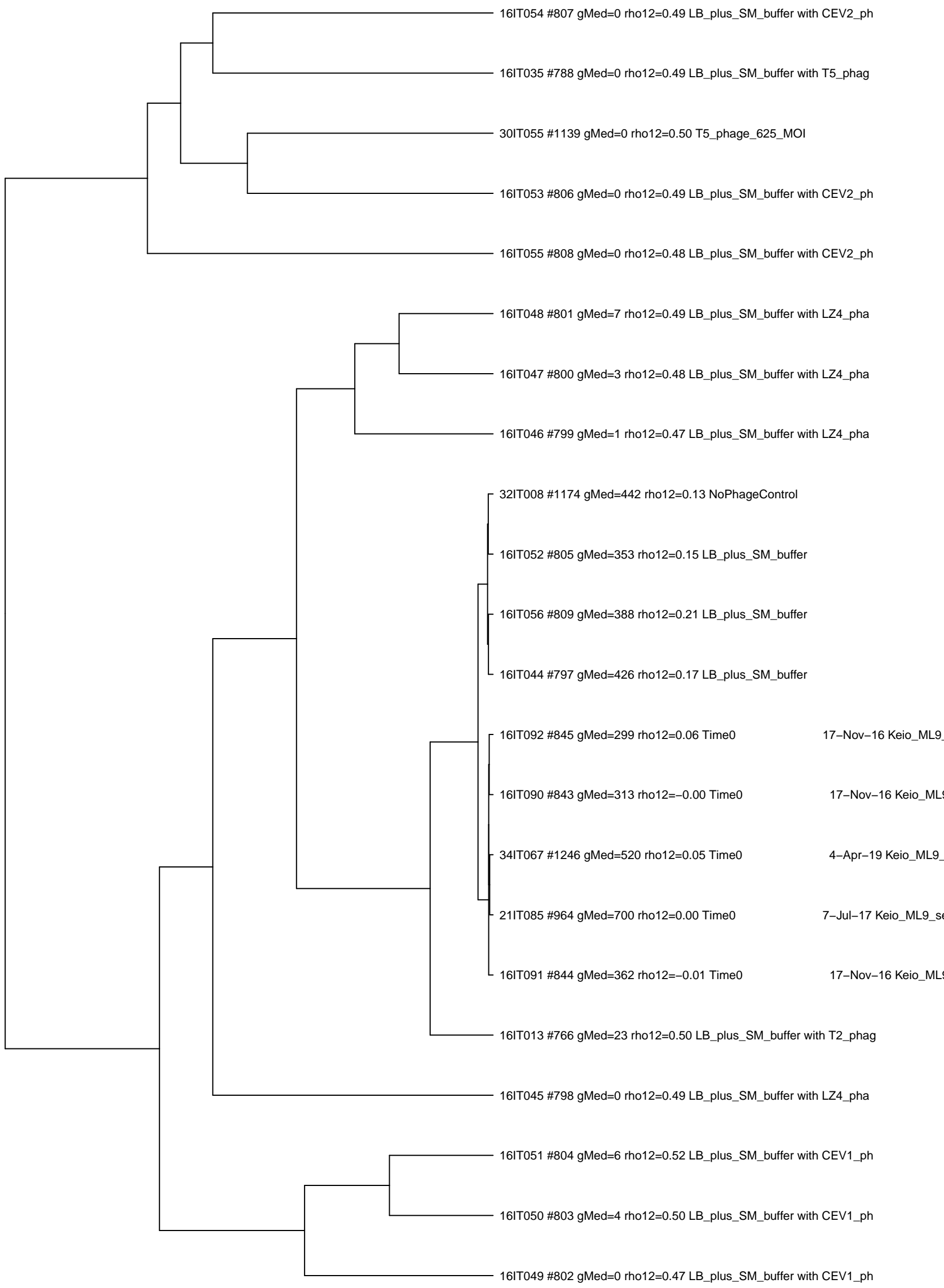
0.6 0.5 0.4 0.3 0.2 0.1 0.0

15-Nov-16 Keio_ML9_set16 and similar samples
(clustered by log-count)

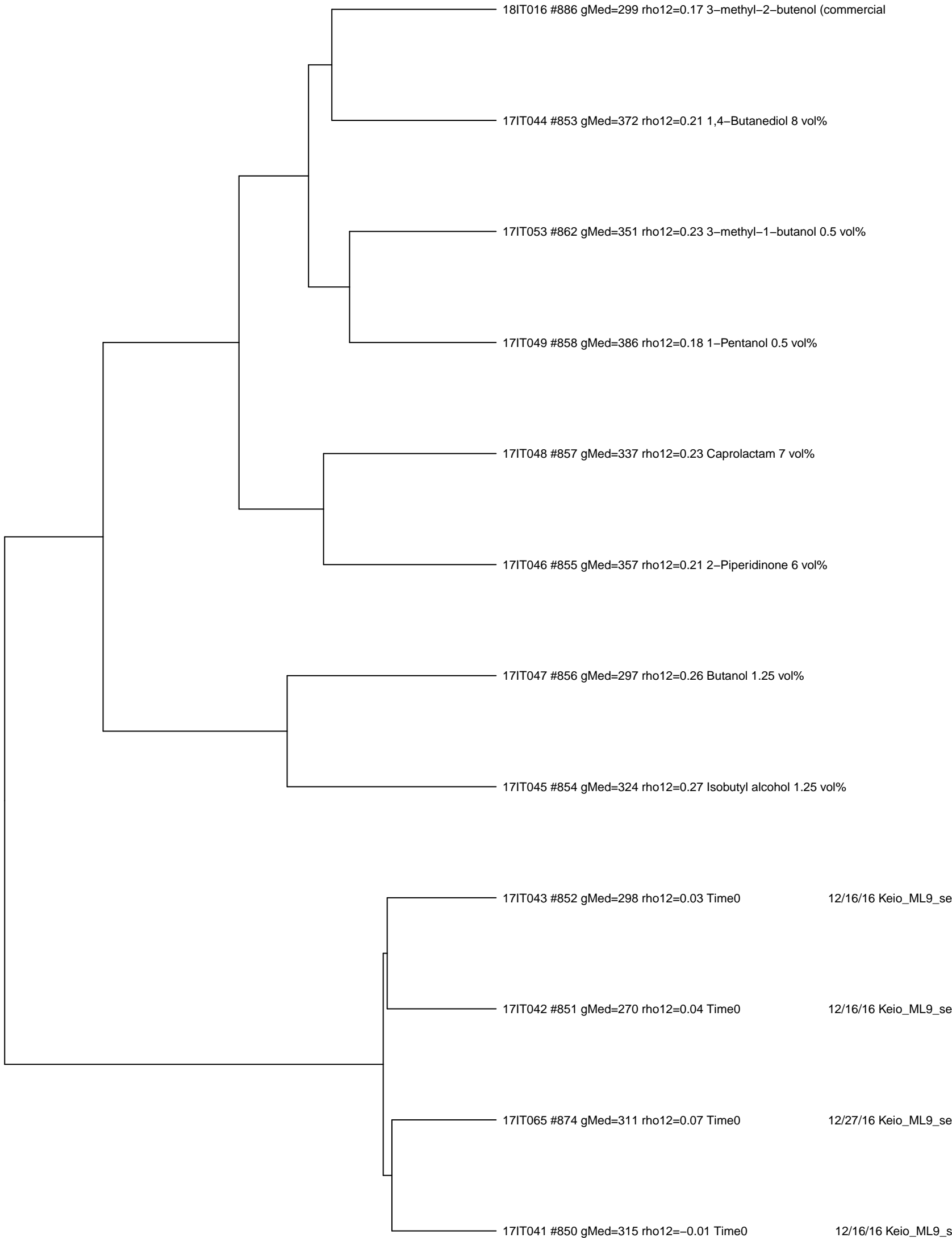


1.0 0.8 0.6 0.4 0.2 0.0

17-Nov-16 Keio_ML9_set16 and similar samples
(clustered by log-count)

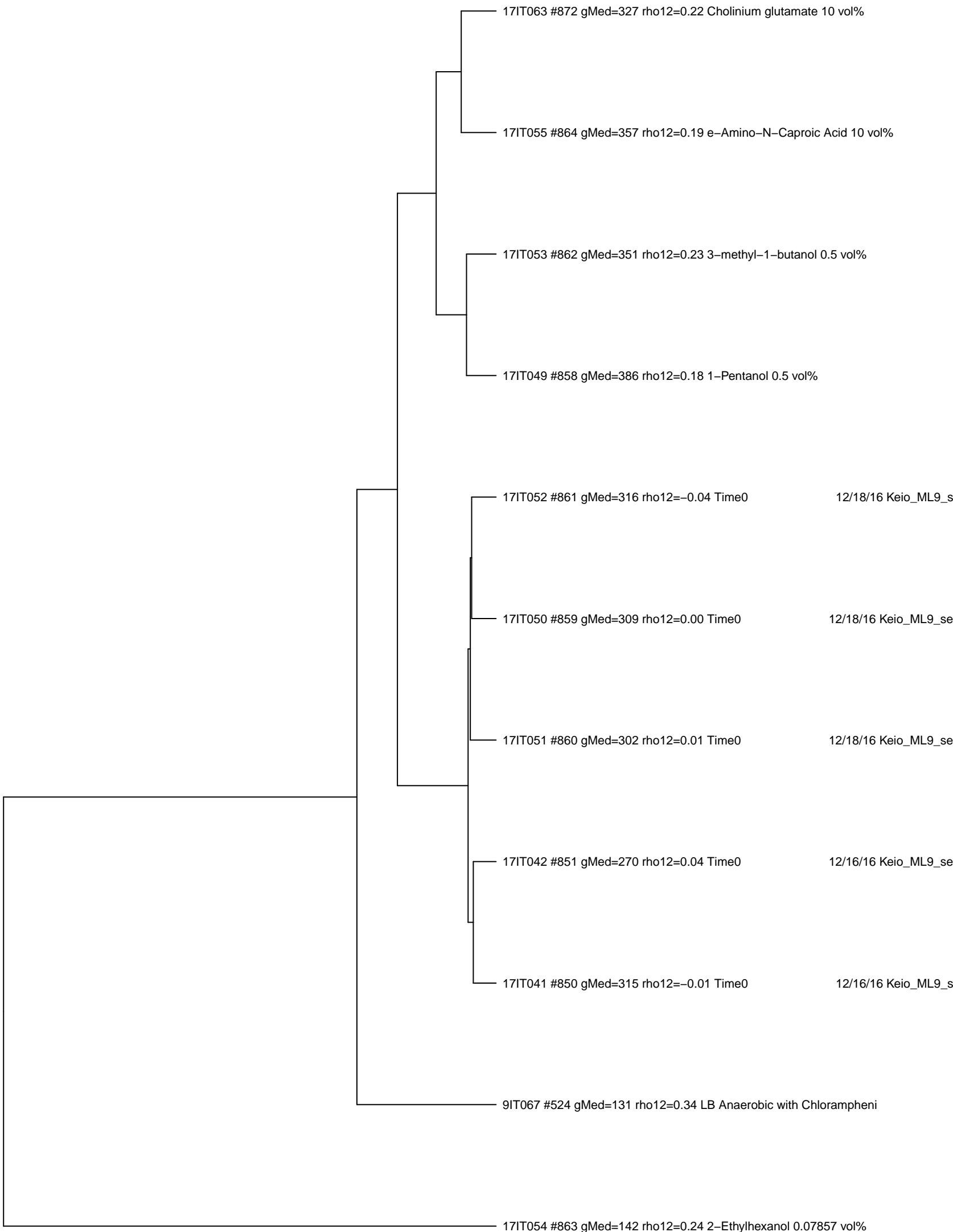


12/16/16 Keio_ML9_set17 and similar samples
(clustered by log-count)



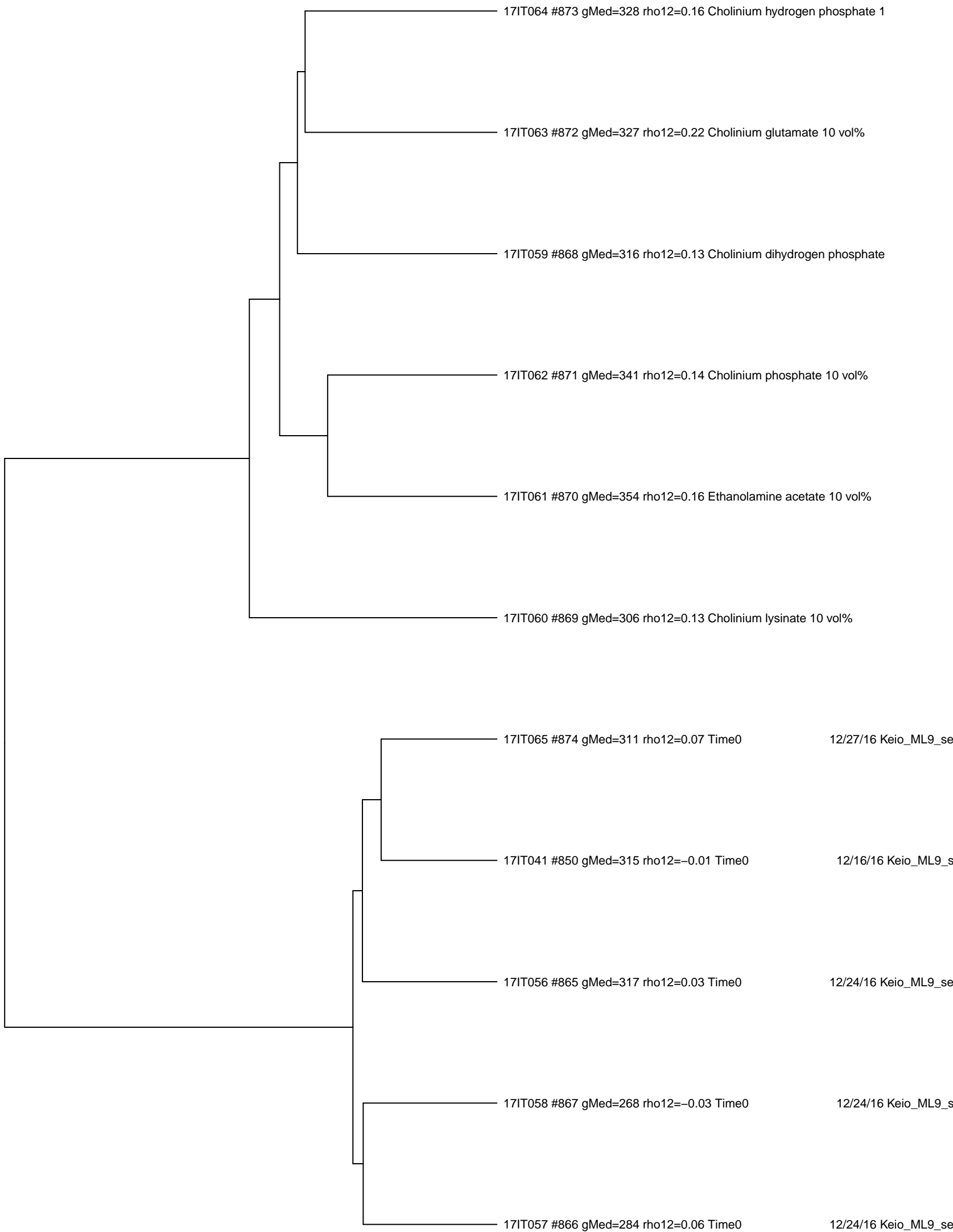
0.03 0.02 0.01 0.00

12/18/16 Keio_ML9_set17 and similar samples
(clustered by log-count)



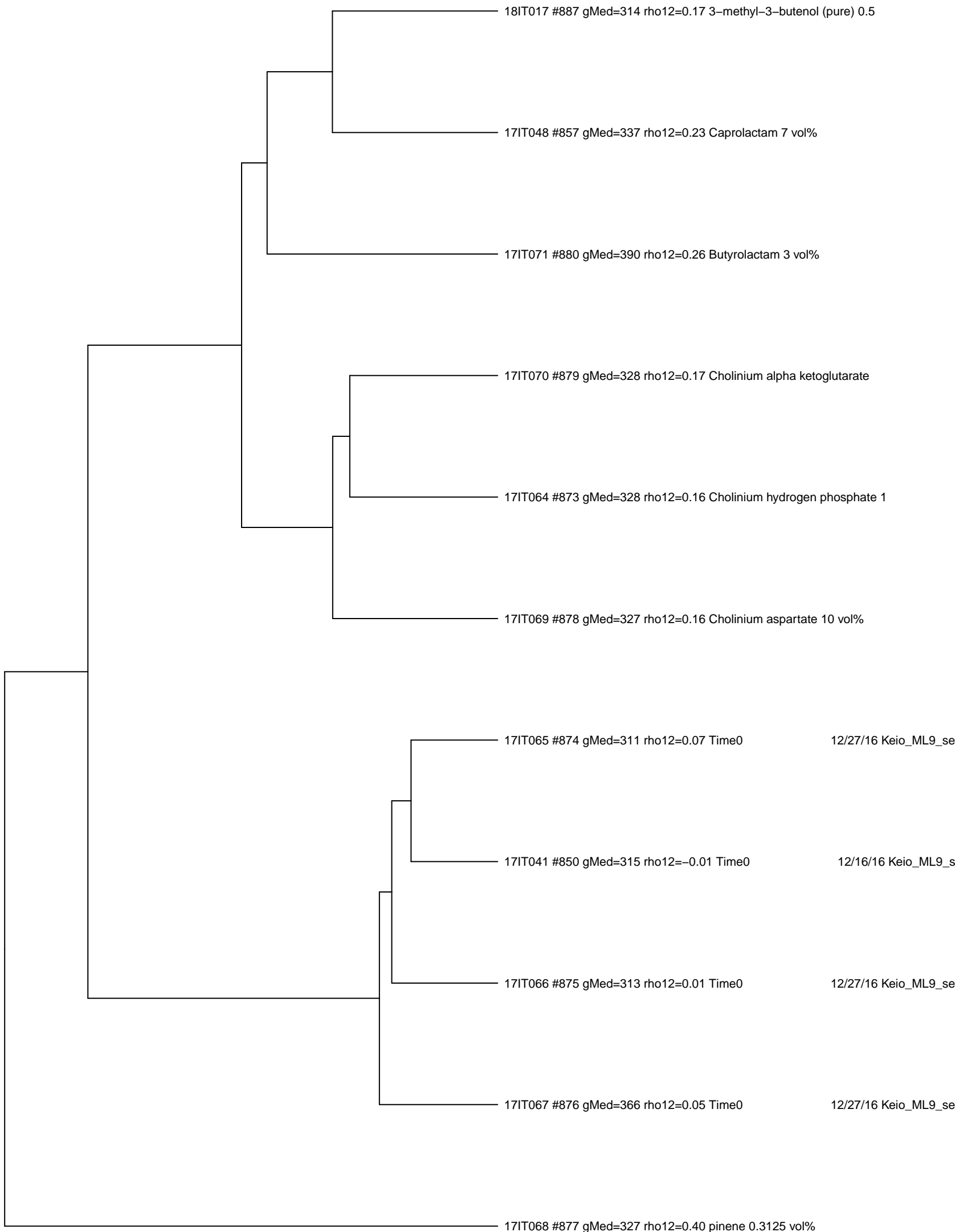
0.15 0.10 0.05 0.00

12/24/16 Keio_ML9_set17 and similar samples
(clustered by log-count)



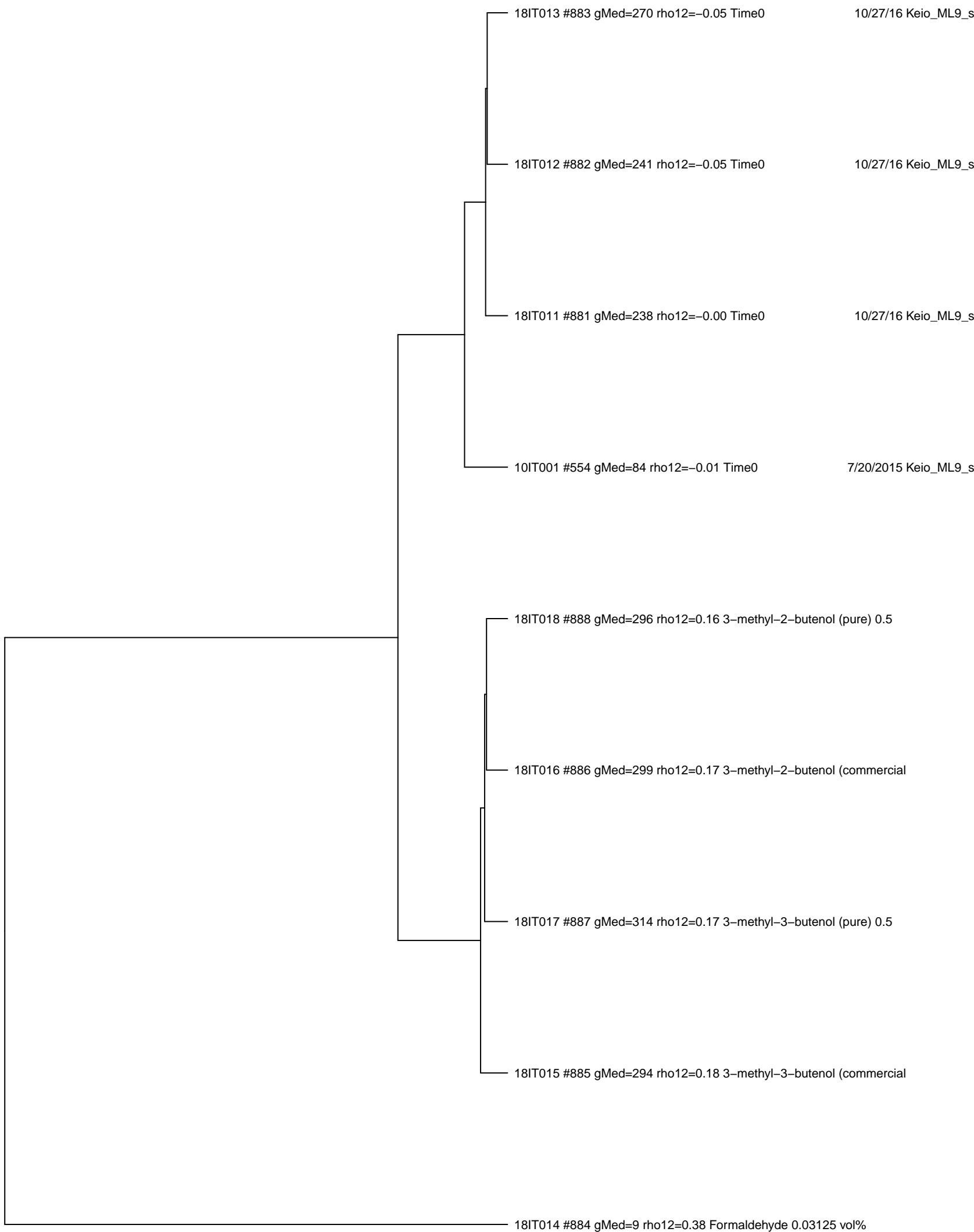
0.030 0.025 0.020 0.015 0.010 0.005 0.000

12/27/16 Keio_ML9_set17 and similar samples
(clustered by log-count)



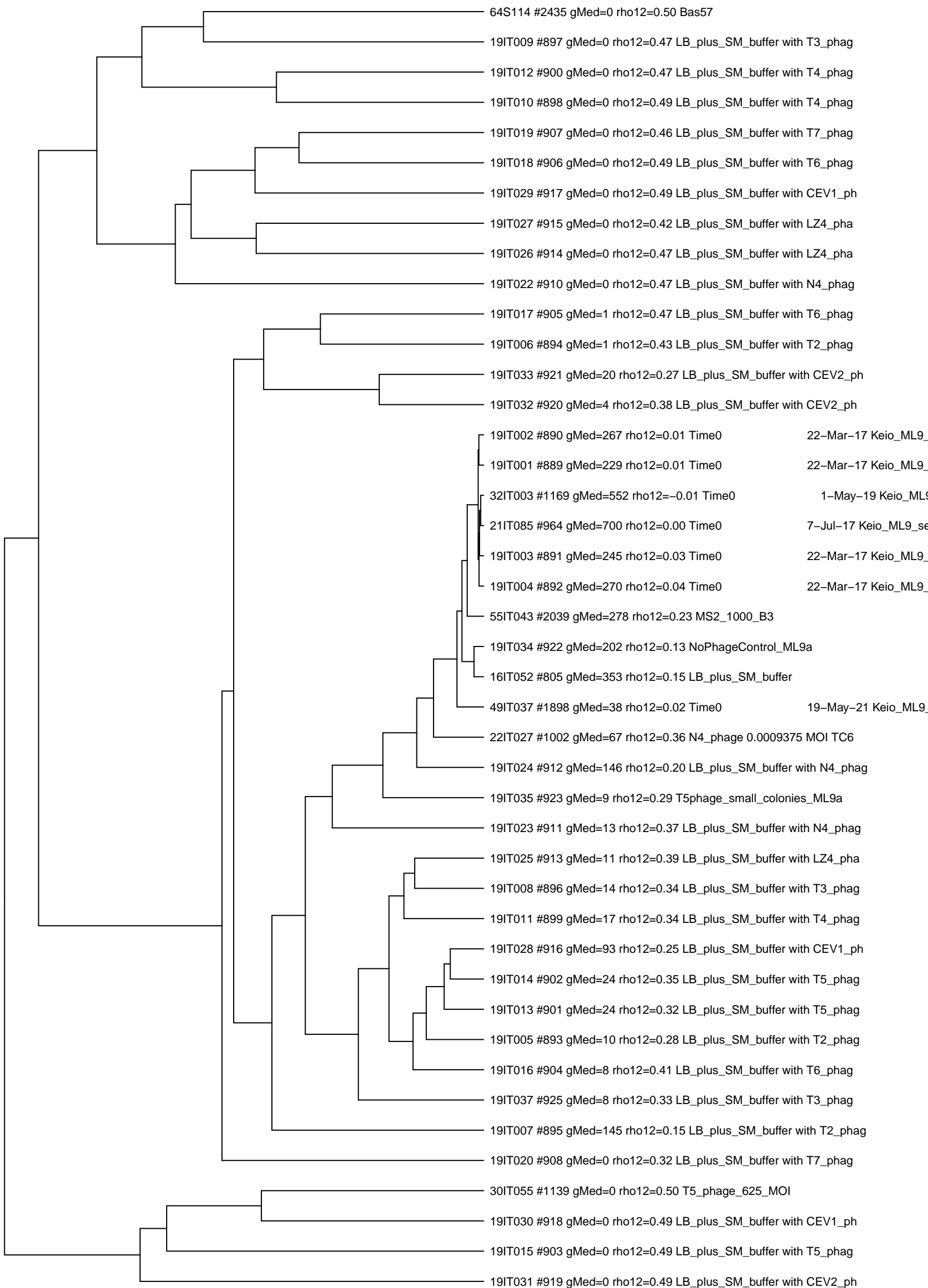
0.04 0.03 0.02 0.01 0.00

10/27/16 Keio_ML9_set18 and similar samples
(clustered by log-count)



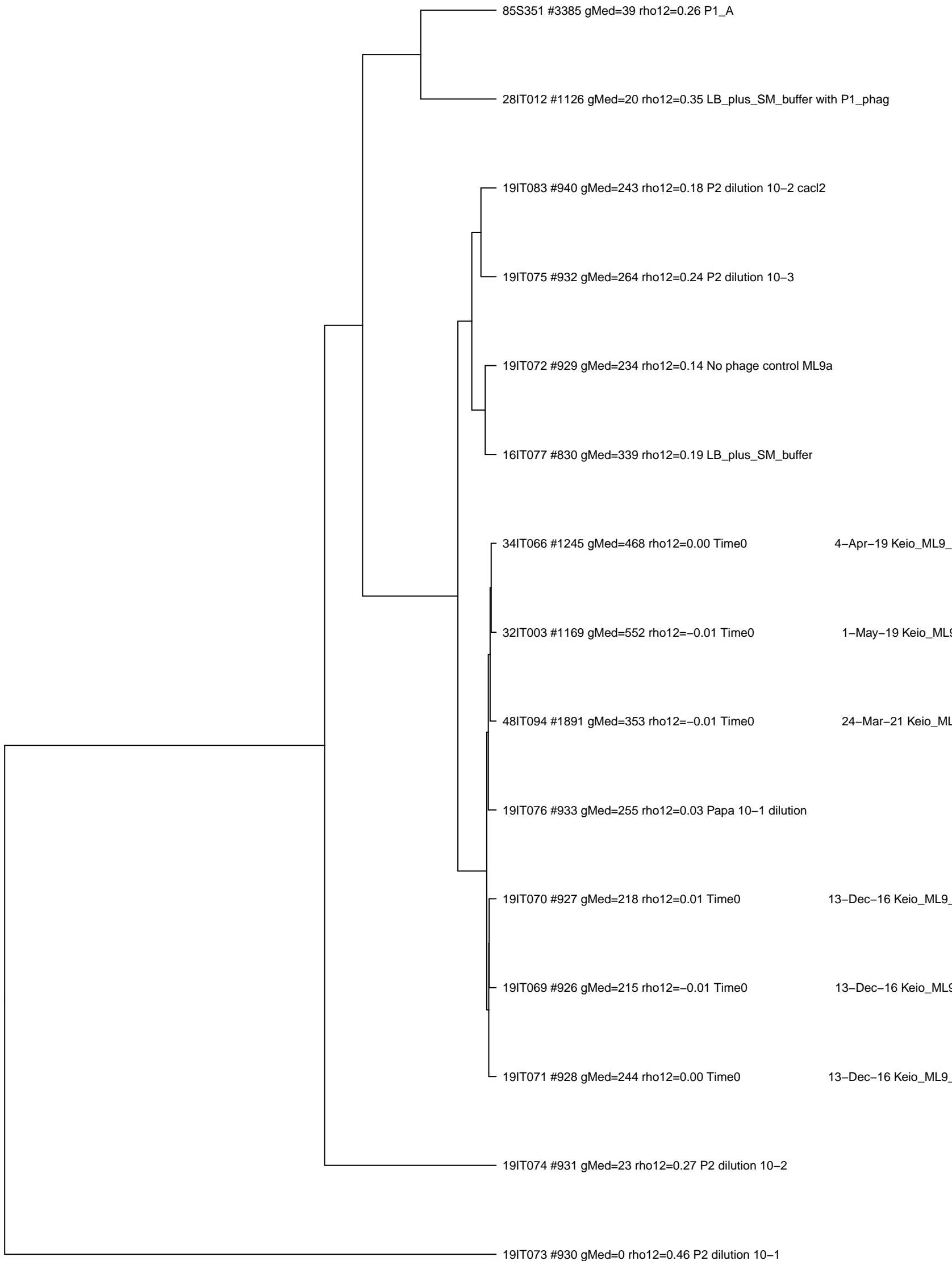
0.20 0.15 0.10 0.05 0.00

22-Mar-17 Keio_ML9_set19 and similar samples
(clustered by log-count)



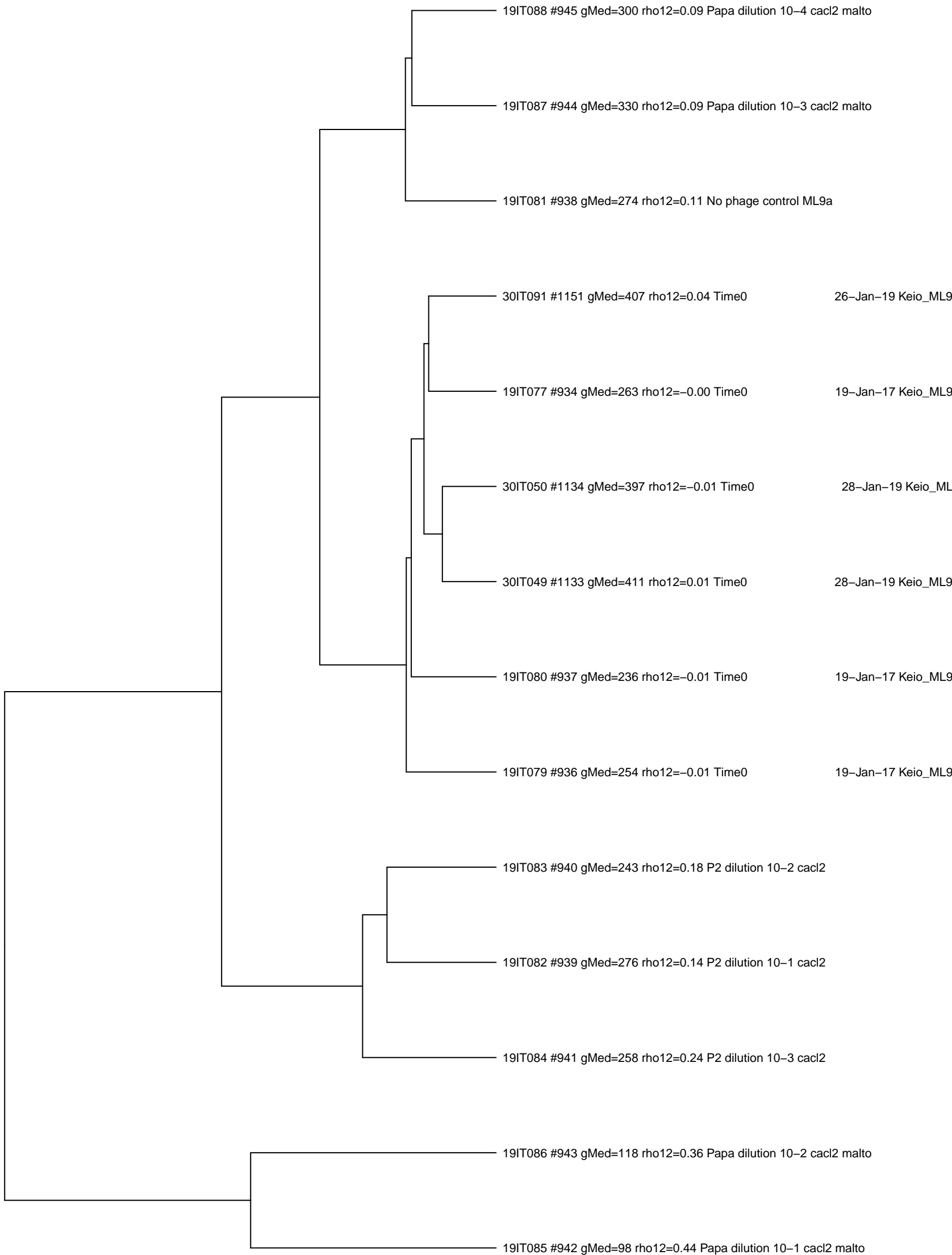
0.8 0.6 0.4 0.2 0.0

13-Dec-16 Keio_ML9_set19 and similar samples
(clustered by log-count)



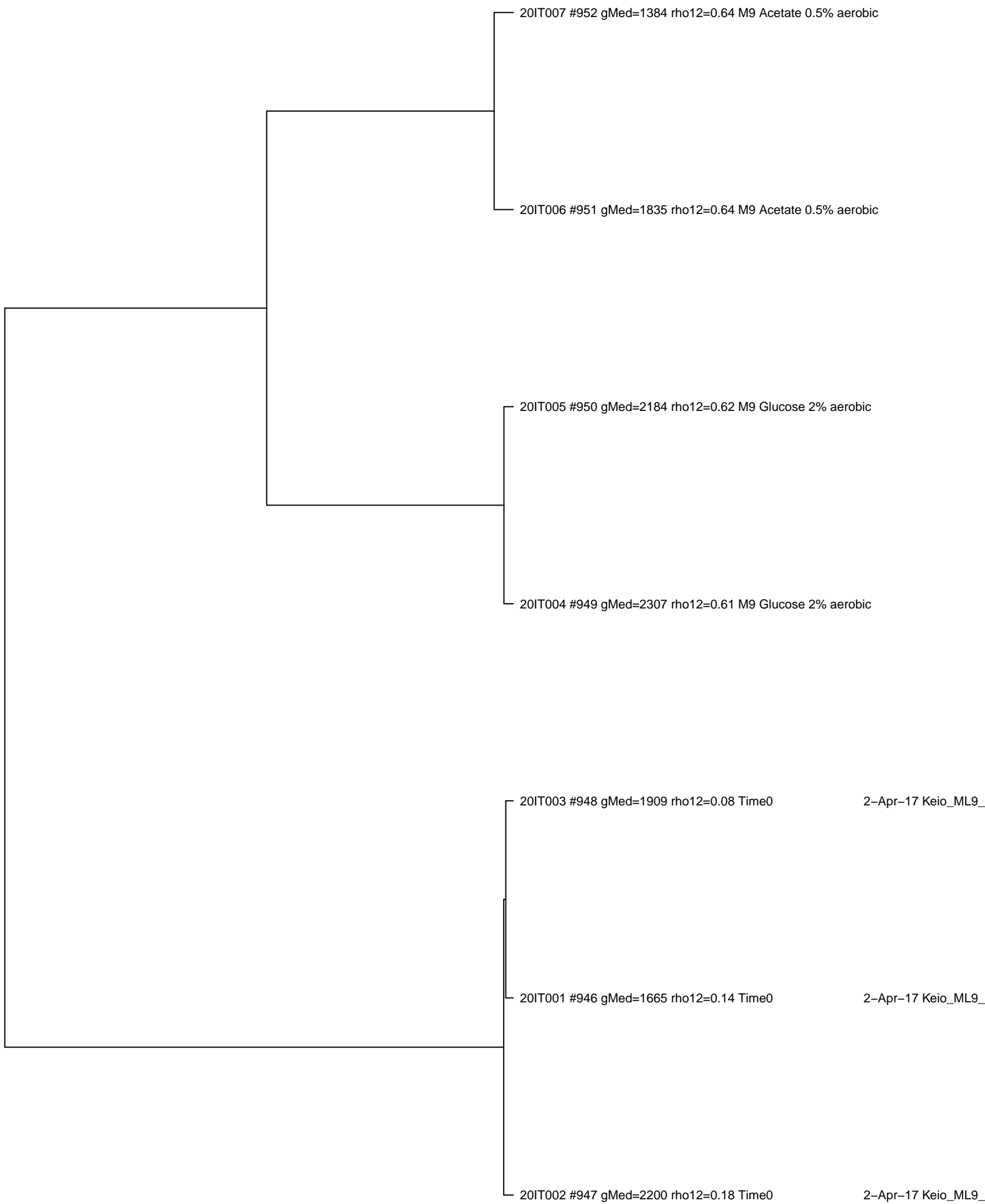
0.6 0.5 0.4 0.3 0.2 0.1 0.0

19-Jan-17 Keio_ML9_set19 and similar samples
(clustered by log-count)



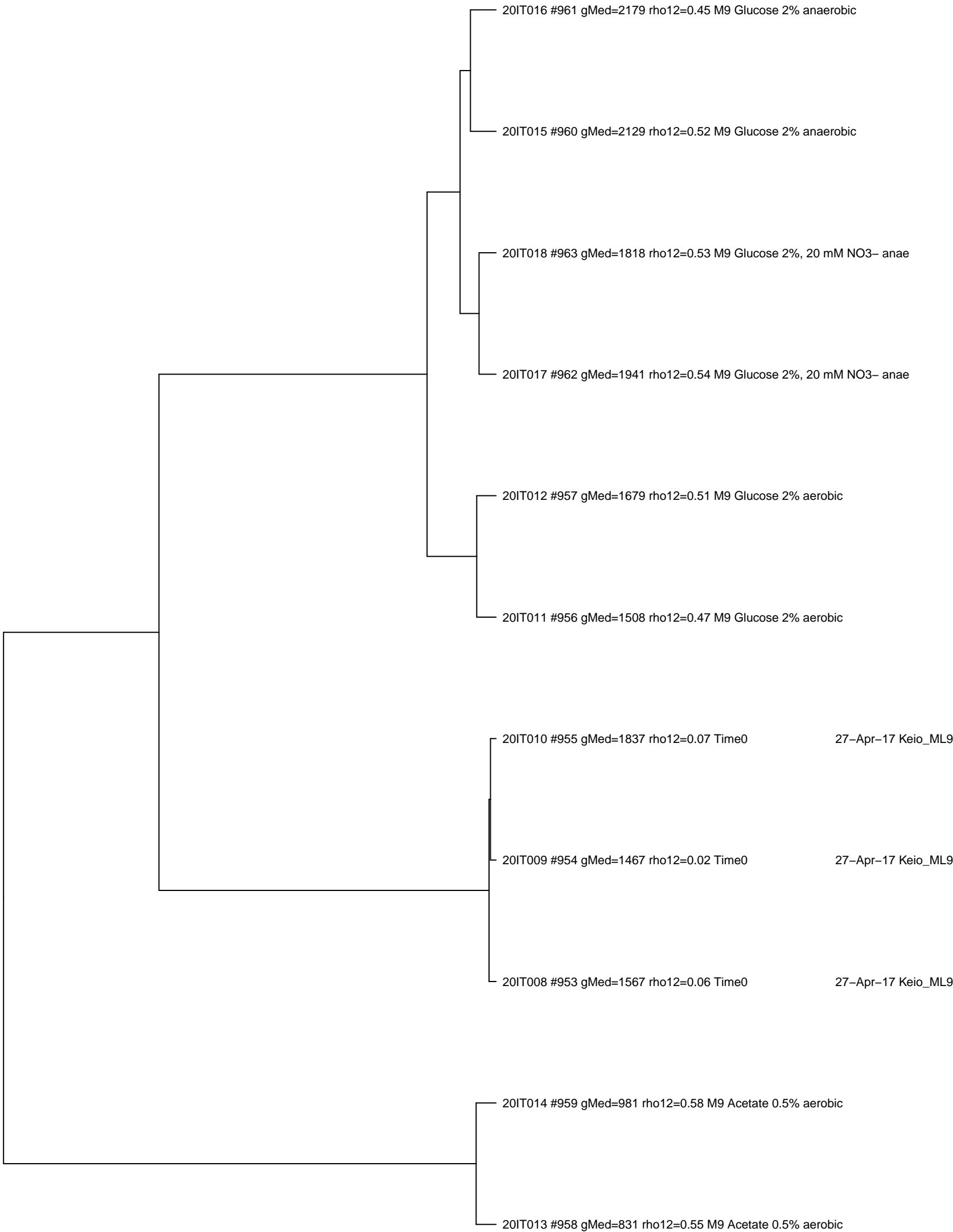
0.05 0.04 0.03 0.02 0.01 0.00

2-Apr-17 Keio_ML9_set20 and similar samples
(clustered by log-count)



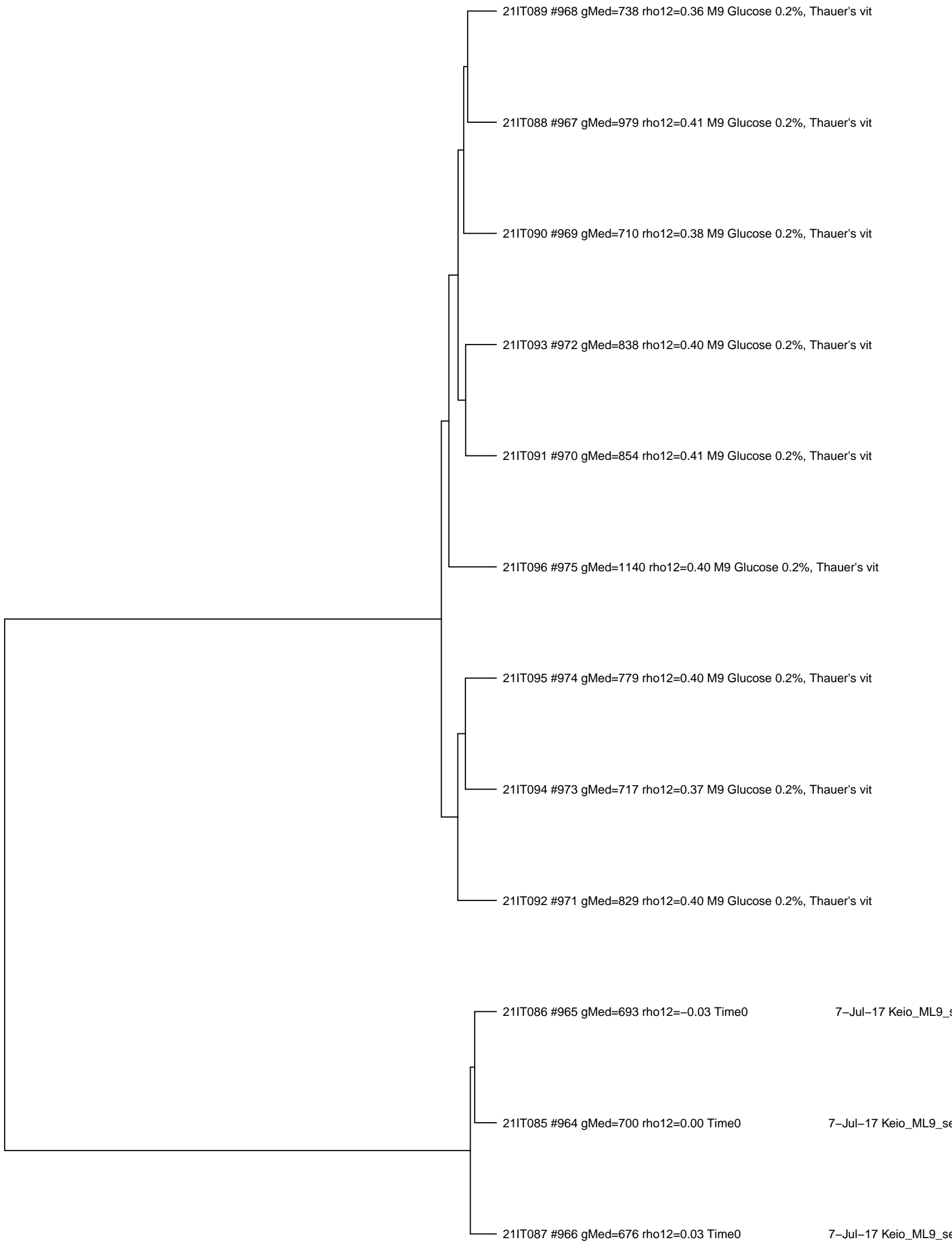
0.12 0.10 0.08 0.06 0.04 0.02 0.00

27-Apr-17 Keio_ML9_set20 and similar samples
(clustered by log-count)



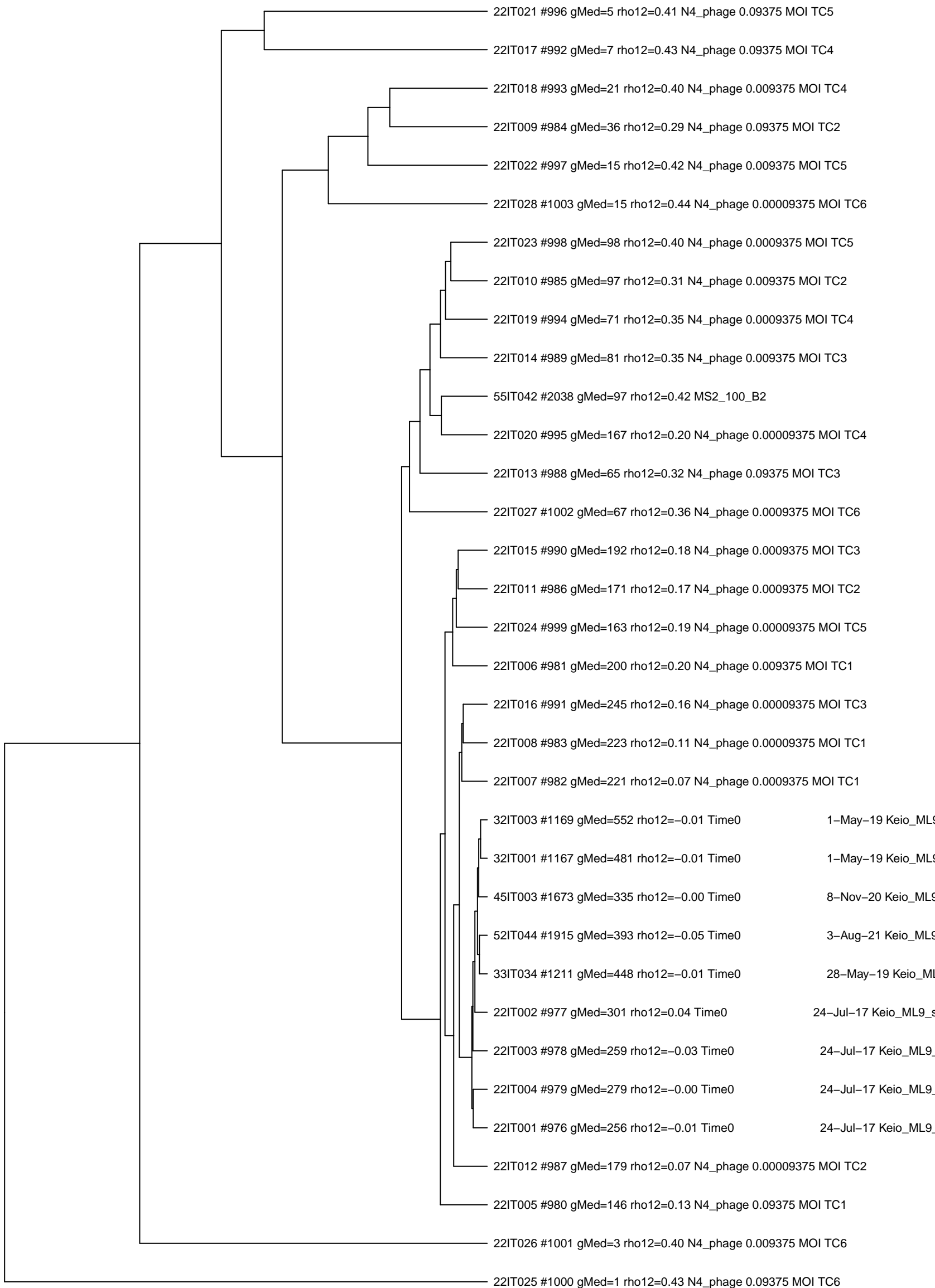
0.15 0.10 0.05 0.00

7-Jul-17 Keio_ML9_set21 and similar samples
(clustered by log-count)



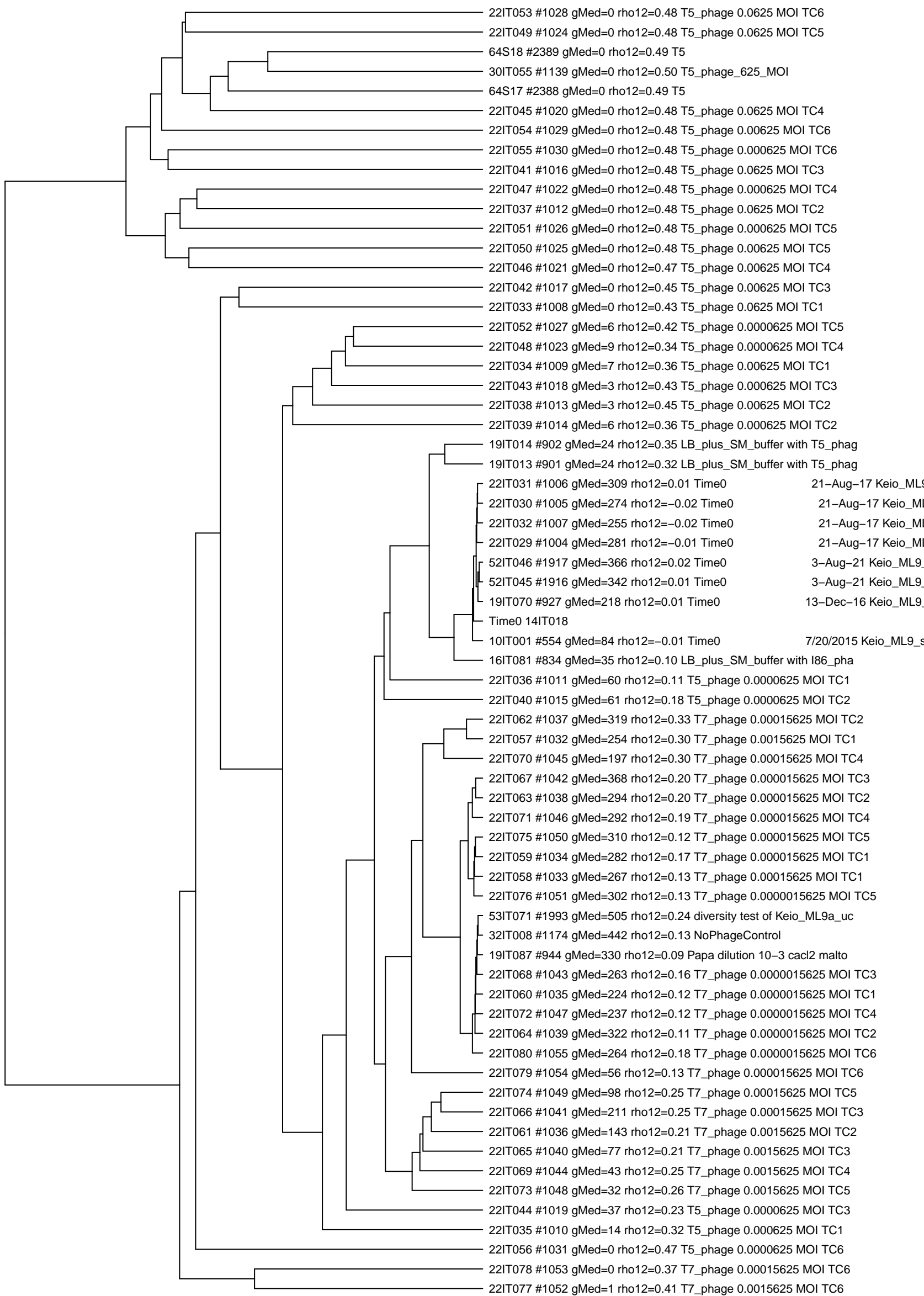
0.10 0.08 0.06 0.04 0.02 0.00

24-Jul-17 Keio_ML9_set22 and similar samples
(clustered by log-count)



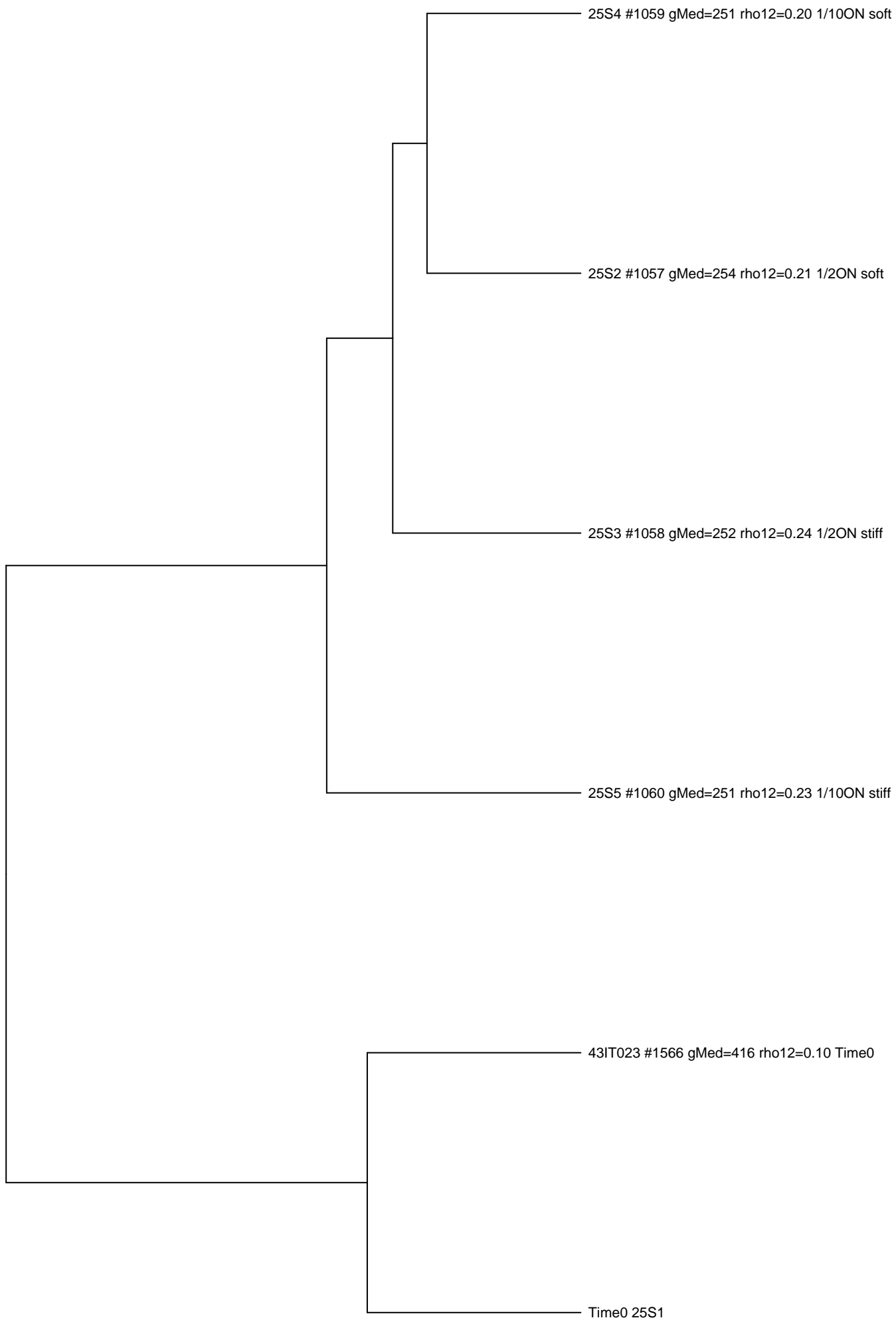
0.4 0.3 0.2 0.1 0.0

21-Aug-17 Keio_ML9_set22 and similar samples
(clustered by log-count)



1.0 0.8 0.6 0.4 0.2 0.0

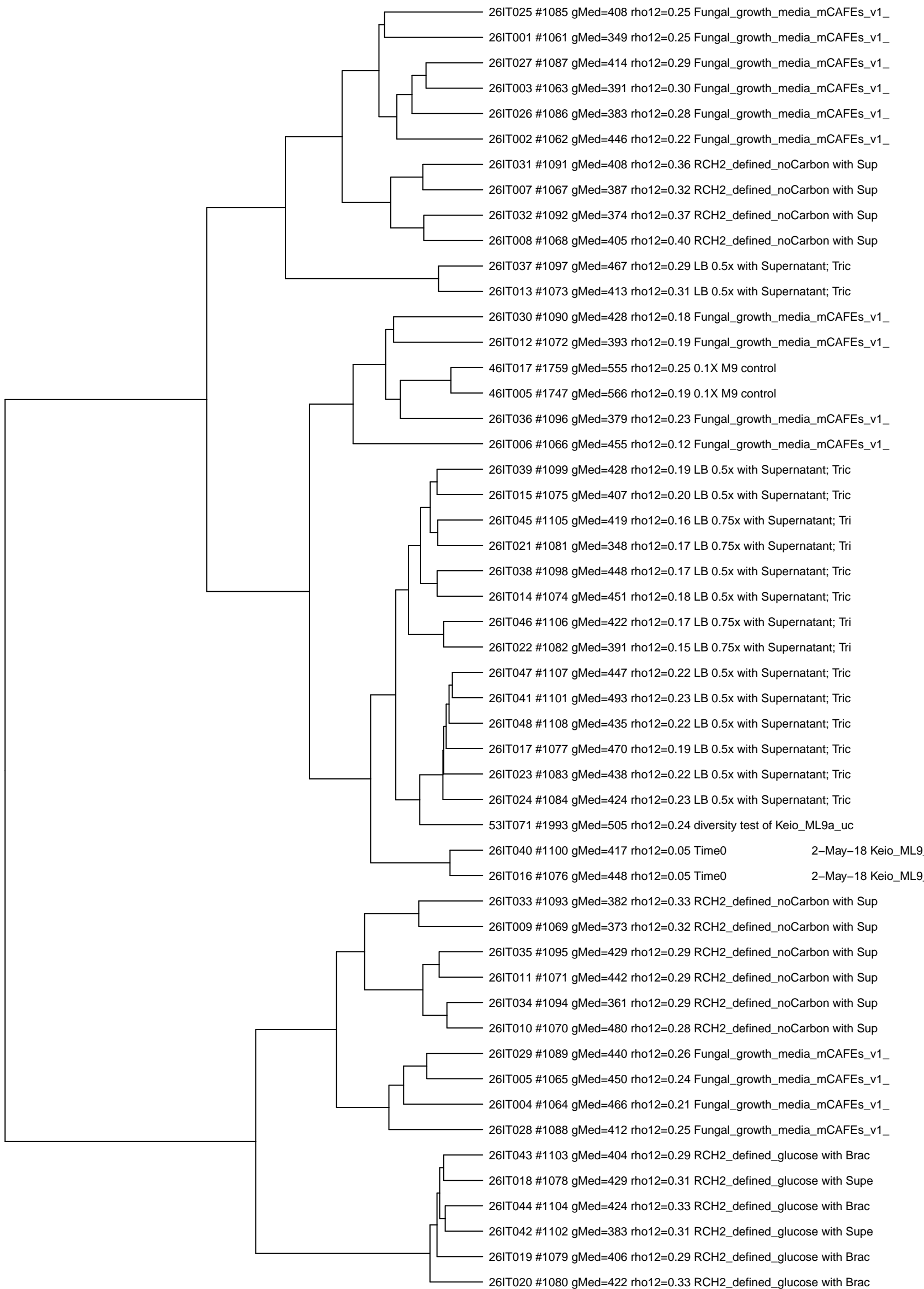
12/18/2017 Keio_ML9_set25 and similar samples
(clustered by log-count)



27-Oct-20 Keio_ML9

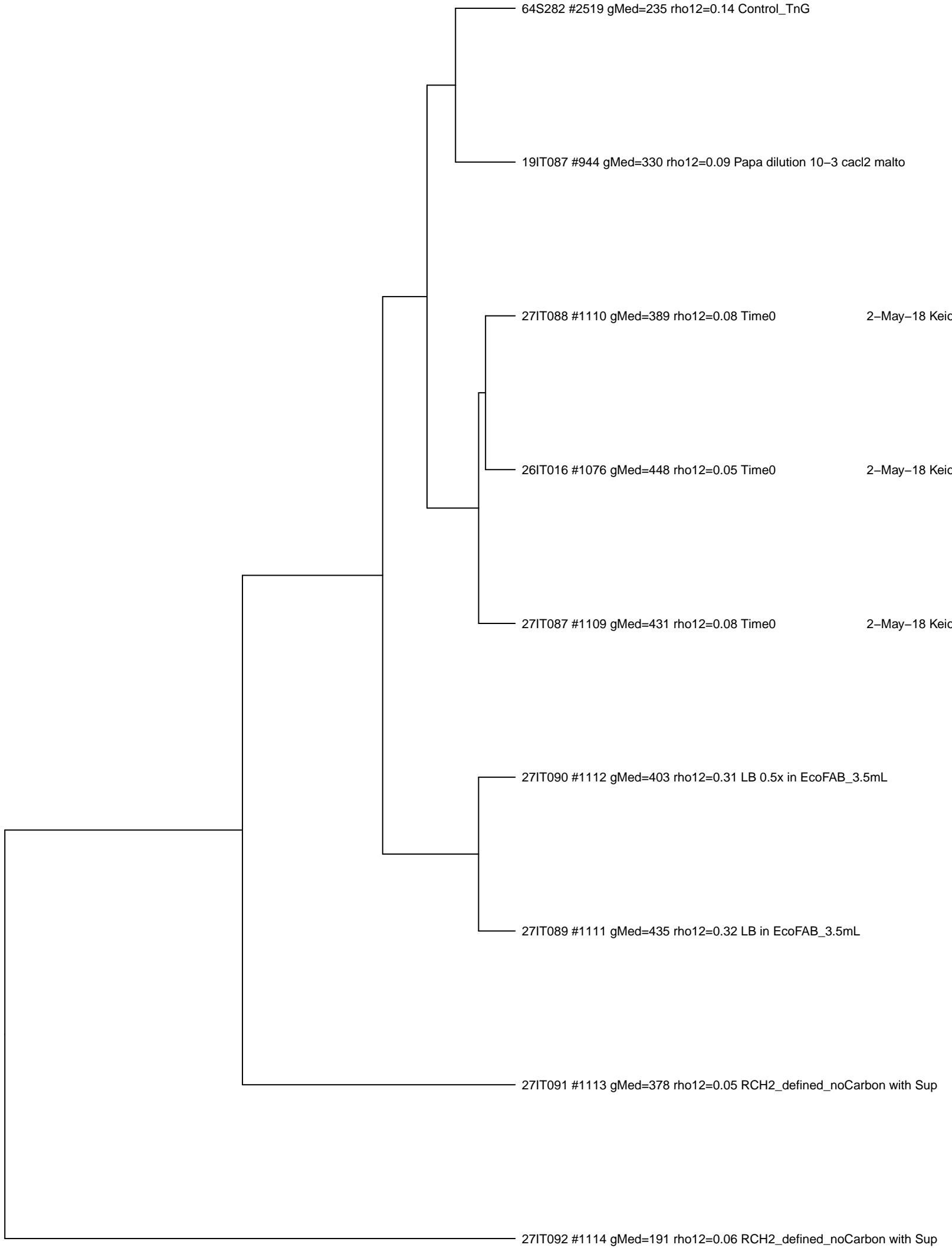
0.030 0.025 0.020 0.015 0.010 0.005 0.000

2-May-18 Keio_ML9_set26 and similar samples
(clustered by log-count)



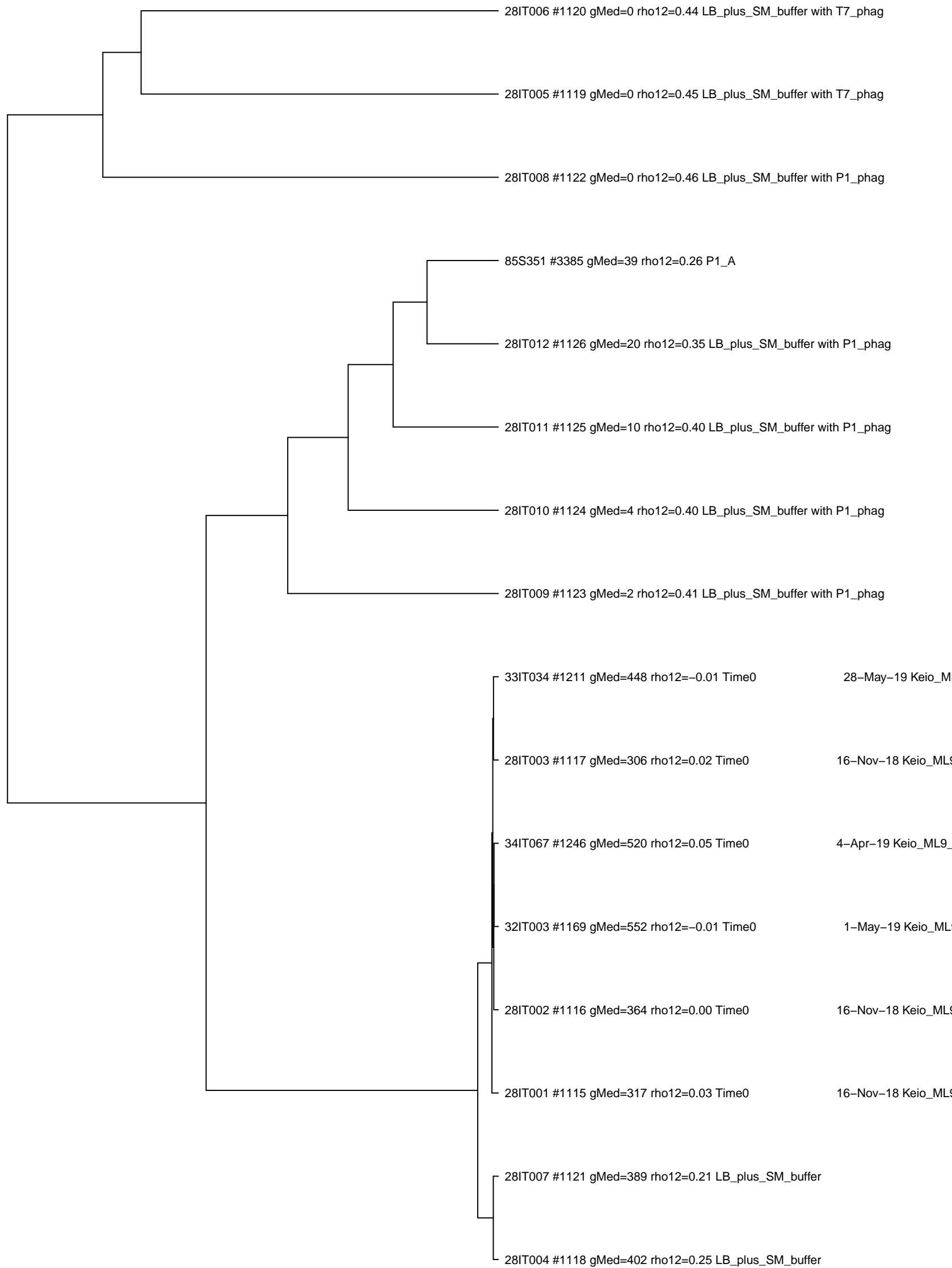
0.08 0.06 0.04 0.02 0.00

2-May-18 Keio_ML9_set27 and similar samples
(clustered by log-count)



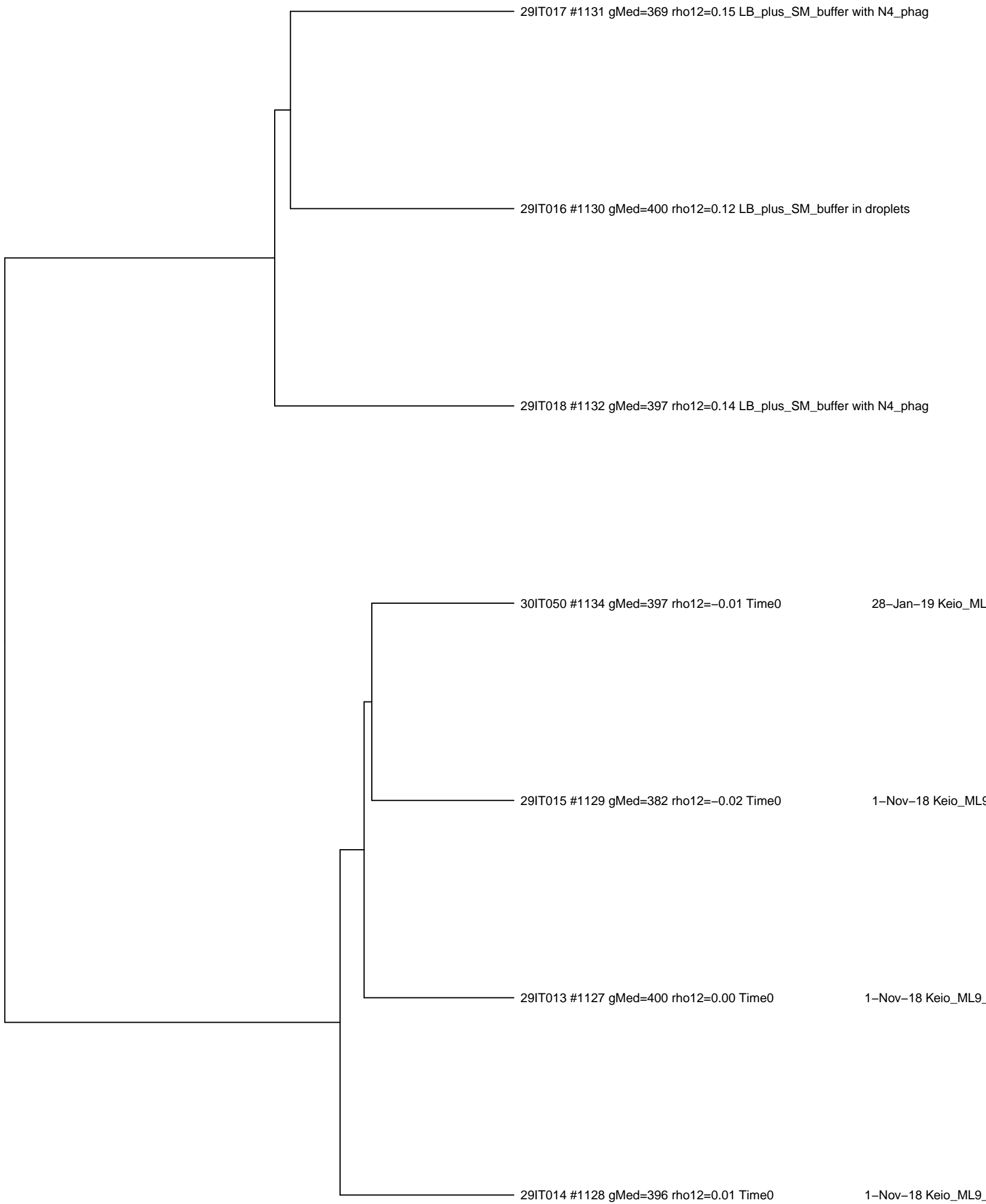
0.12 0.10 0.08 0.06 0.04 0.02 0.00

16–Nov–18 Keio_ML9_set28 and similar samples
(clustered by log-count)



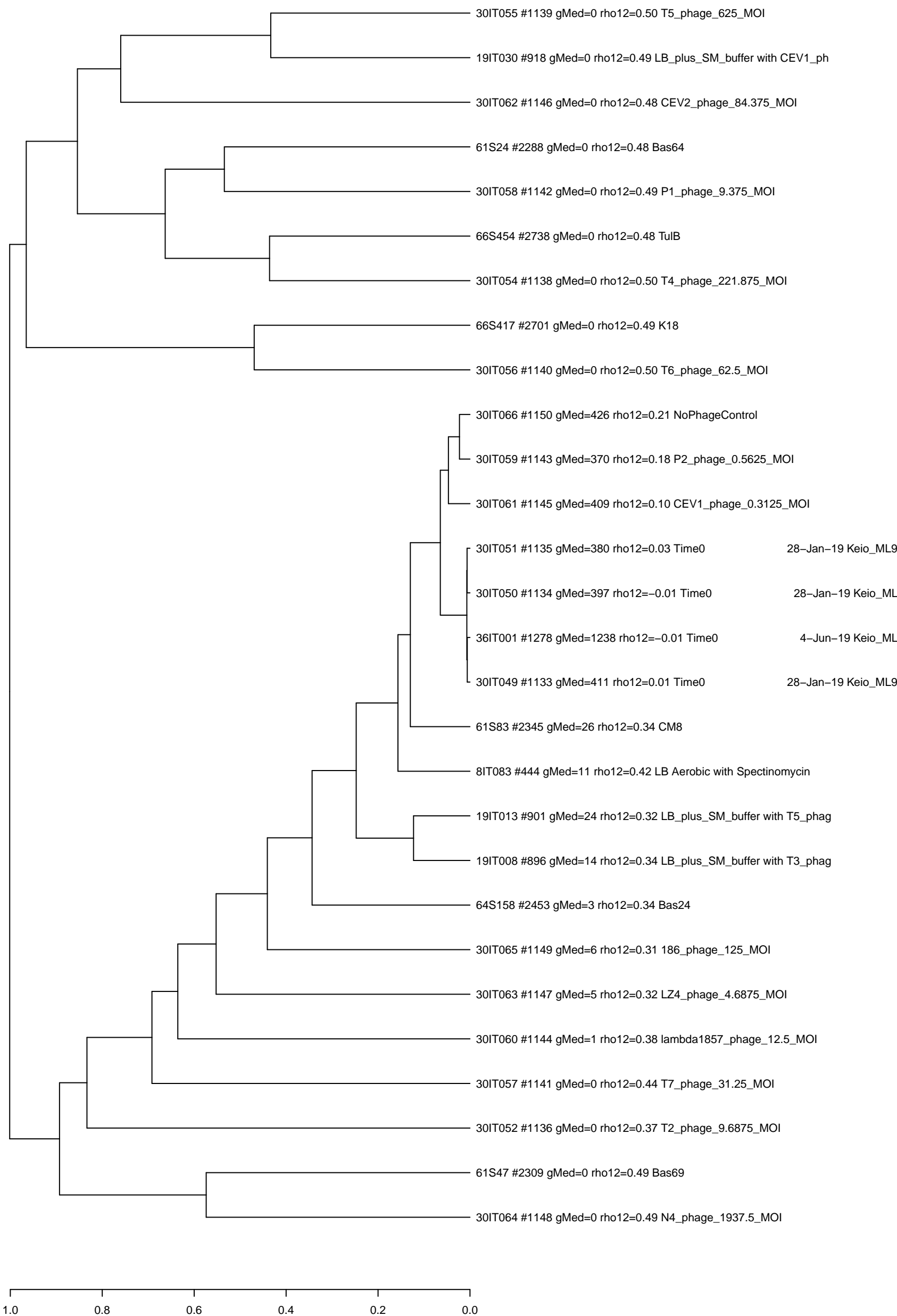
0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

1-Nov-18 Keio_ML9_set29 and similar samples
(clustered by log-count)

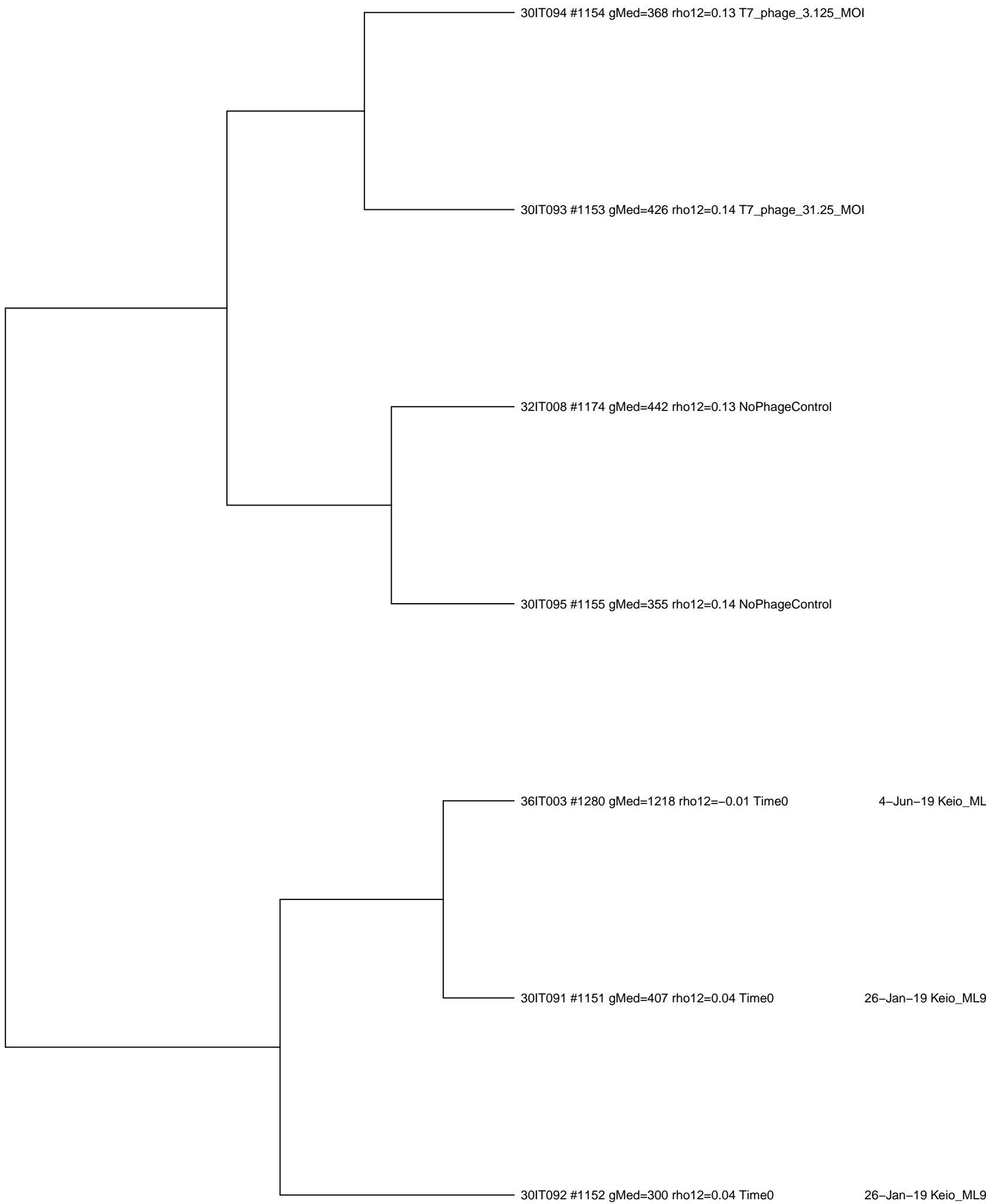


0.025 0.020 0.015 0.010 0.005 0.000

28-Jan-19 Keio_ML9_set30 and similar samples
(clustered by log-count)

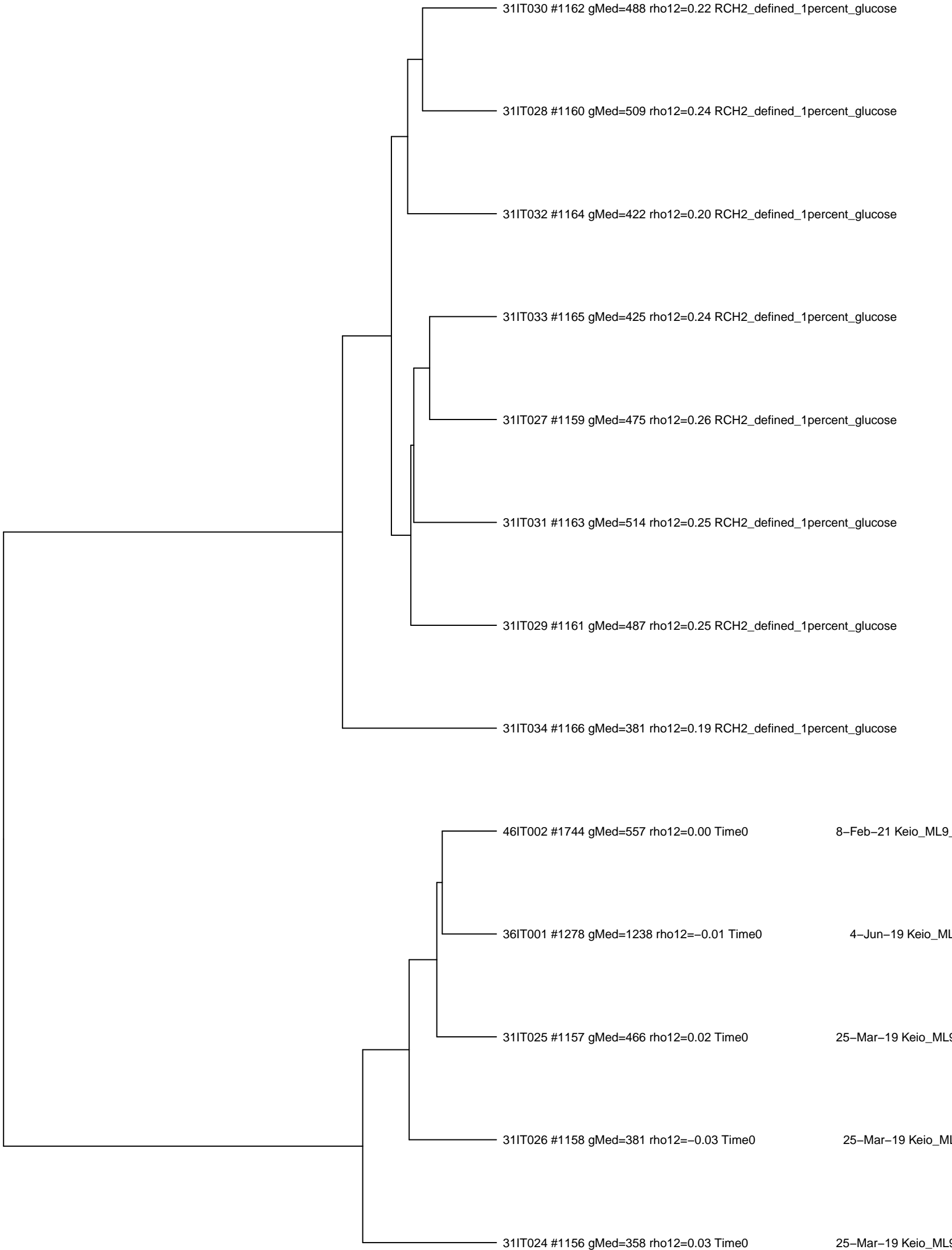


26-Jan-19 Keio_ML9_set30 and similar samples
(clustered by log-count)



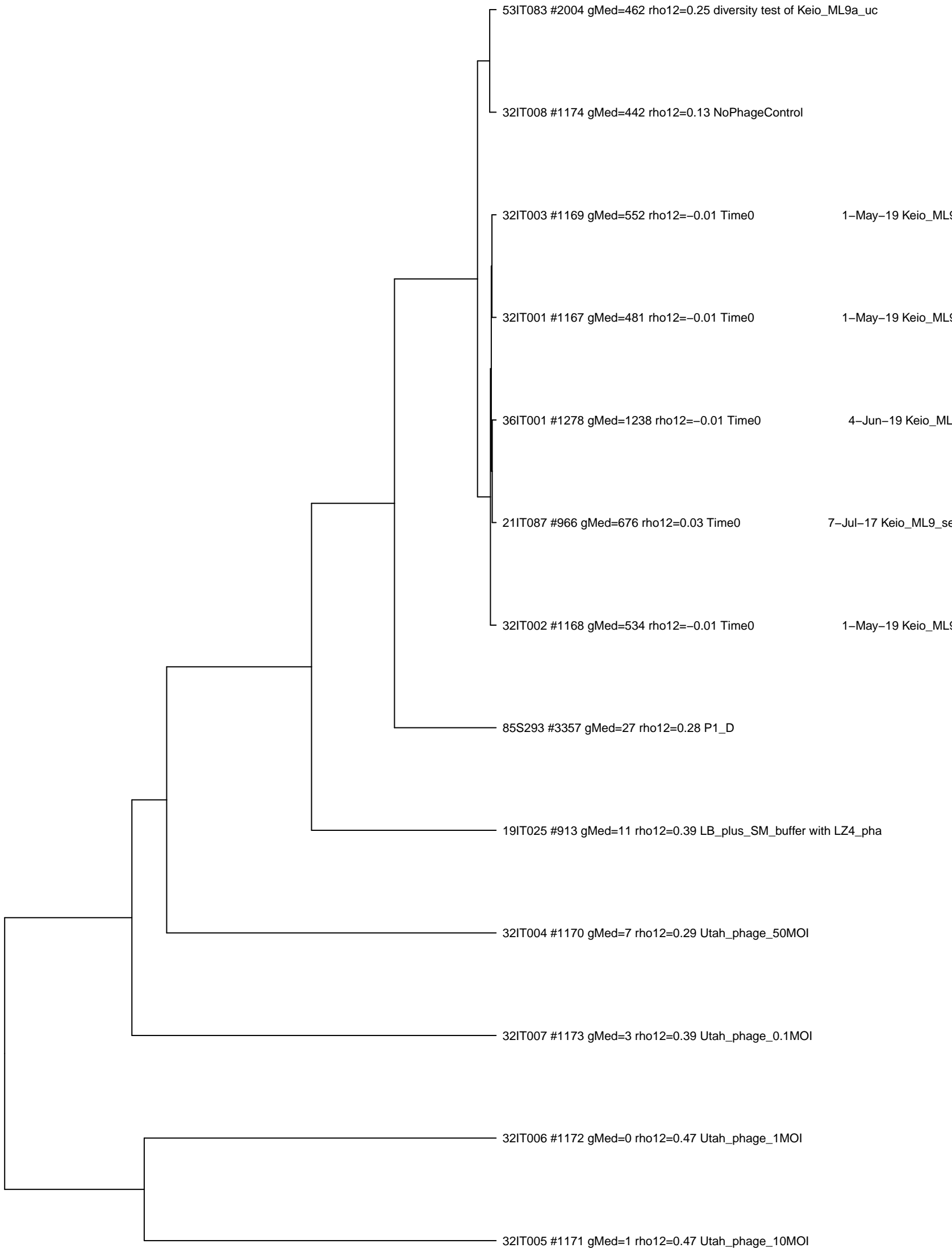
0.04 0.03 0.02 0.01 0.00

25-Mar-19 Keio_ML9_set31 and similar samples
(clustered by log-count)



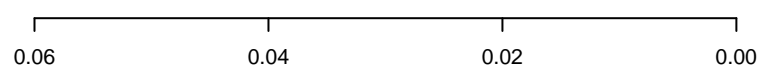
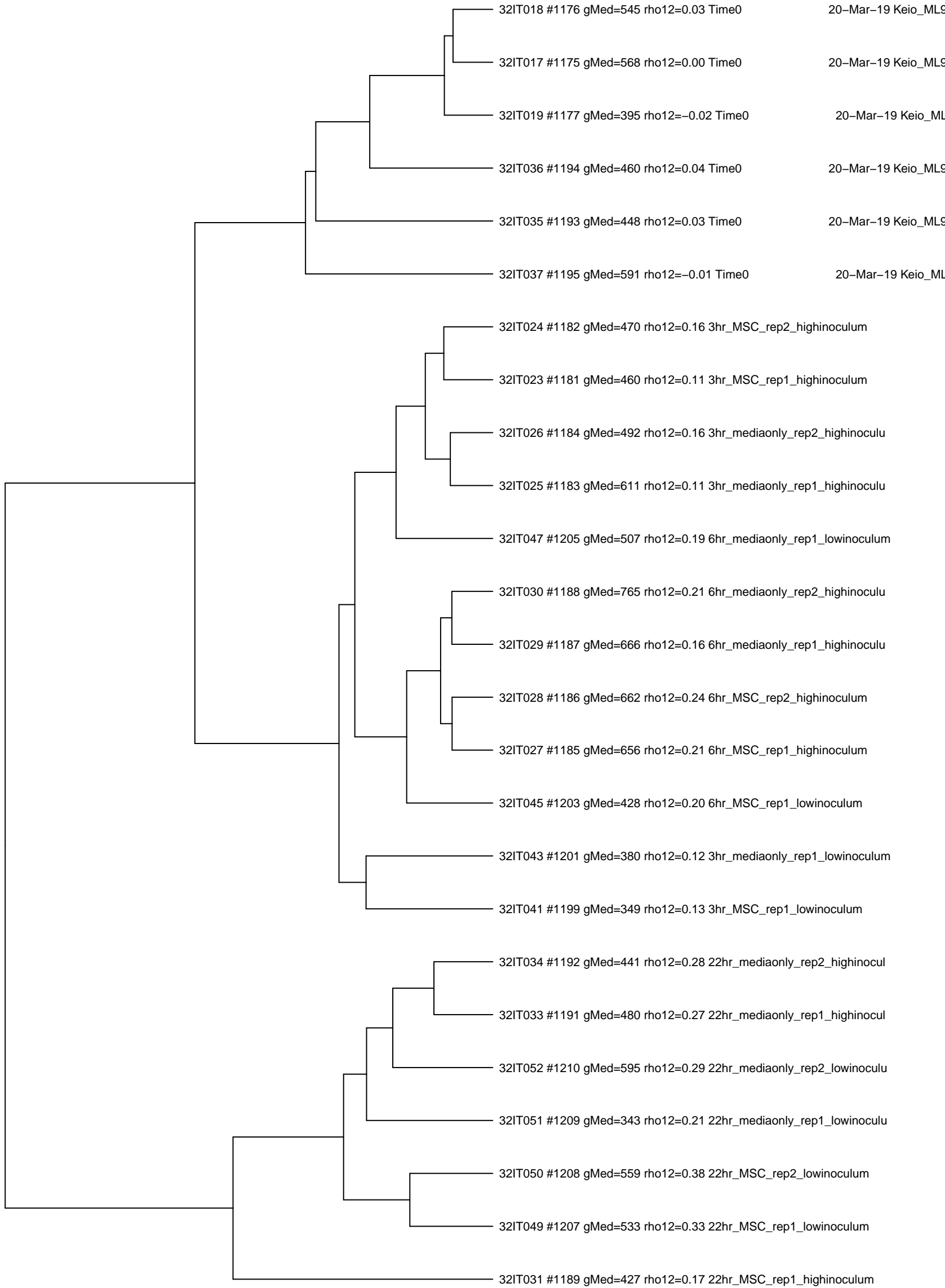
0.05 0.04 0.03 0.02 0.01 0.00

1-May-19 Keio_ML9_set32 and similar samples
(clustered by log-count)

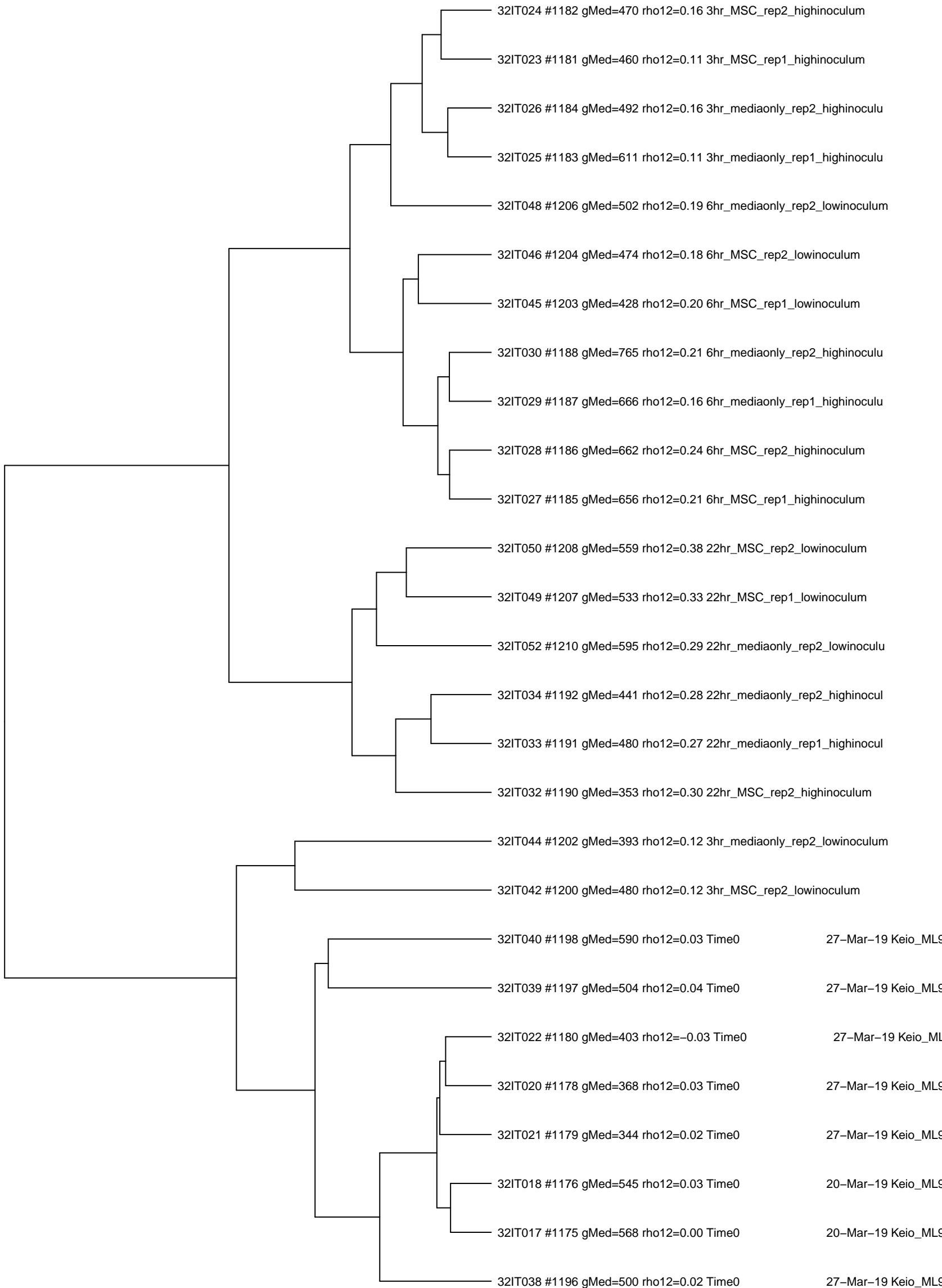


0.6 0.5 0.4 0.3 0.2 0.1 0.0

20-Mar-19 Keio_ML9_set32 and similar samples
(clustered by log-count)

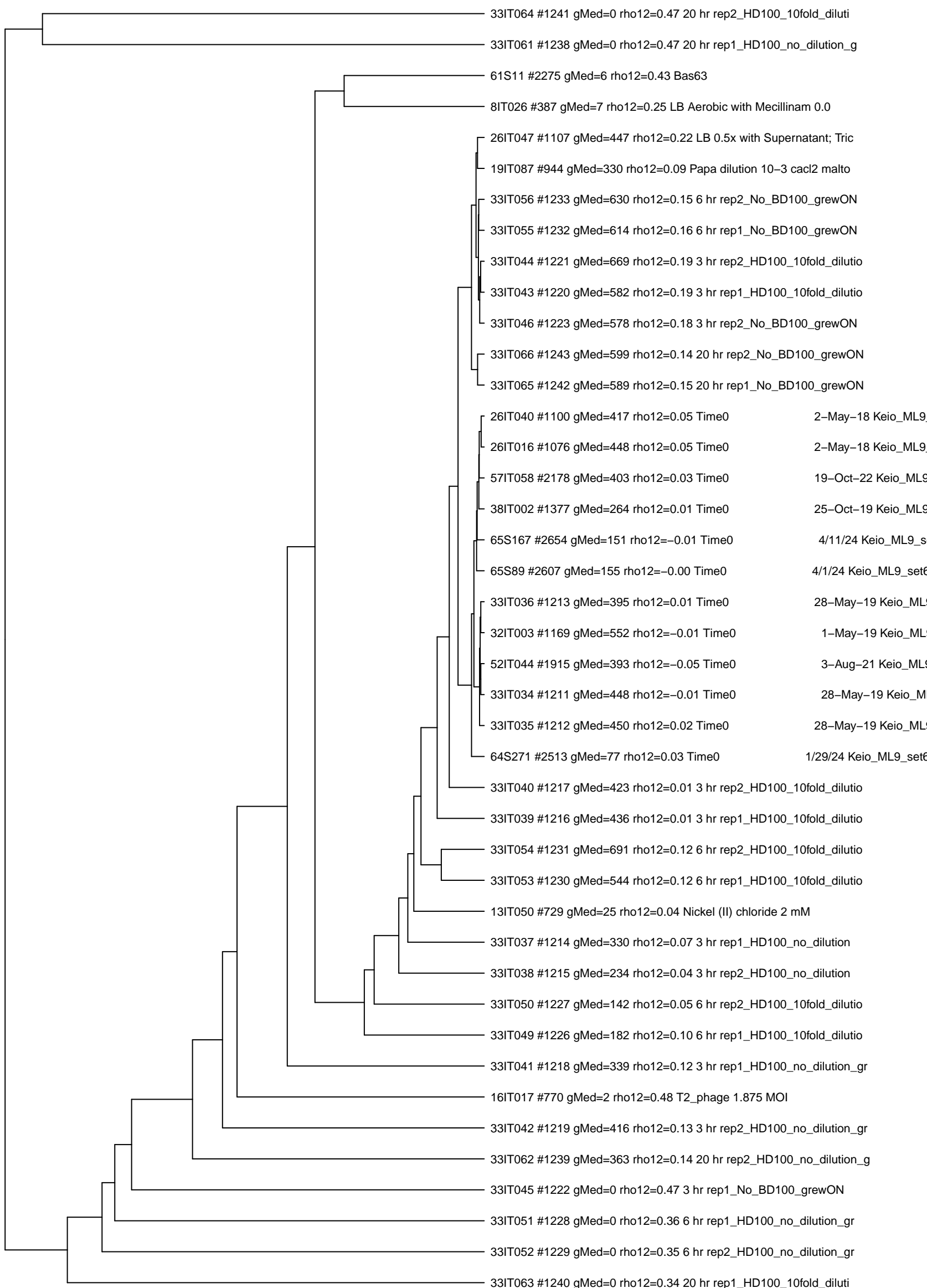


27-Mar-19 Keio_ML9_set32 and similar samples
(clustered by log-count)



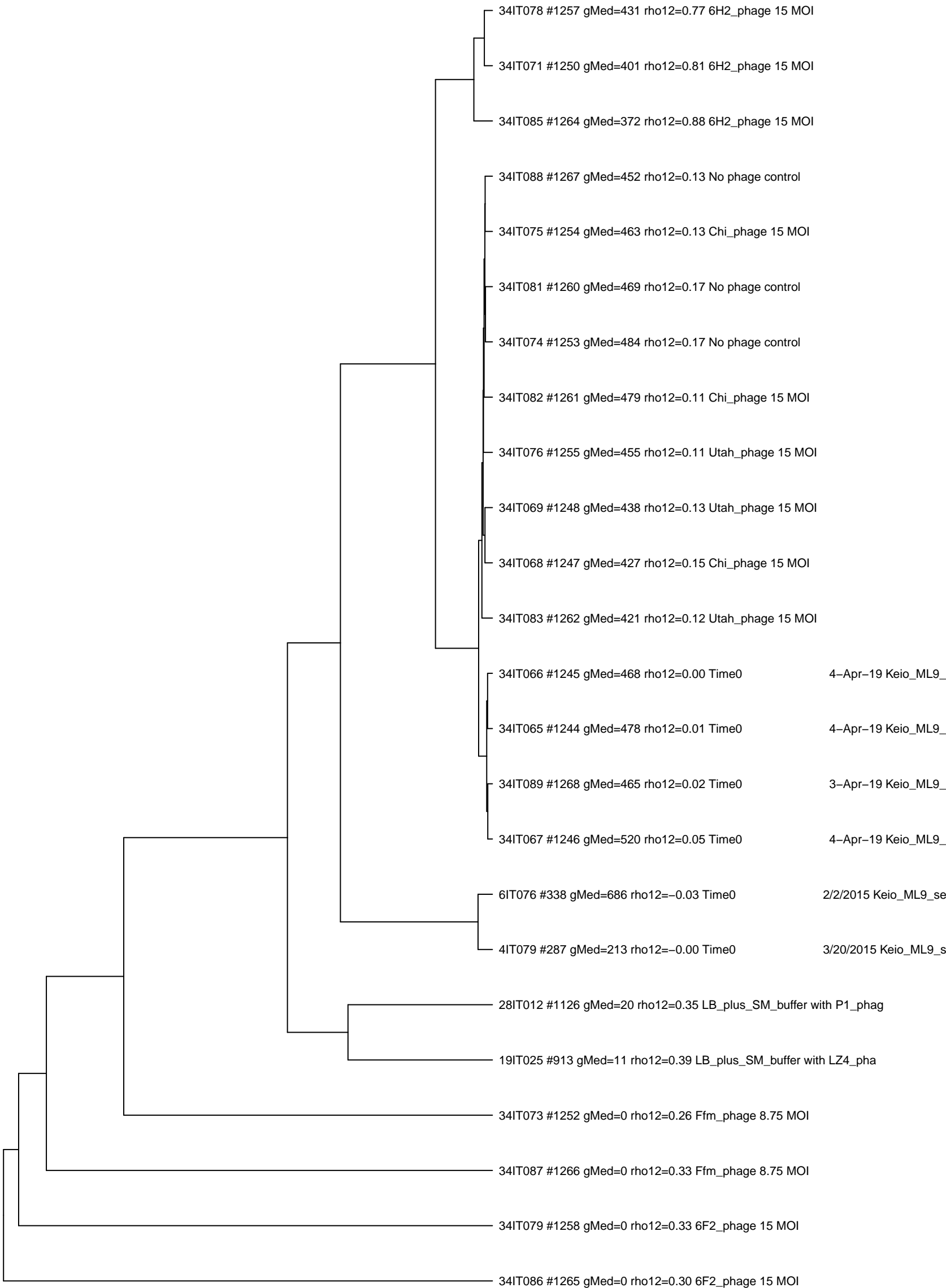
0.06 0.04 0.02 0.00

28-May-19 Keio_ML9_set33 and similar samples
(clustered by log-count)



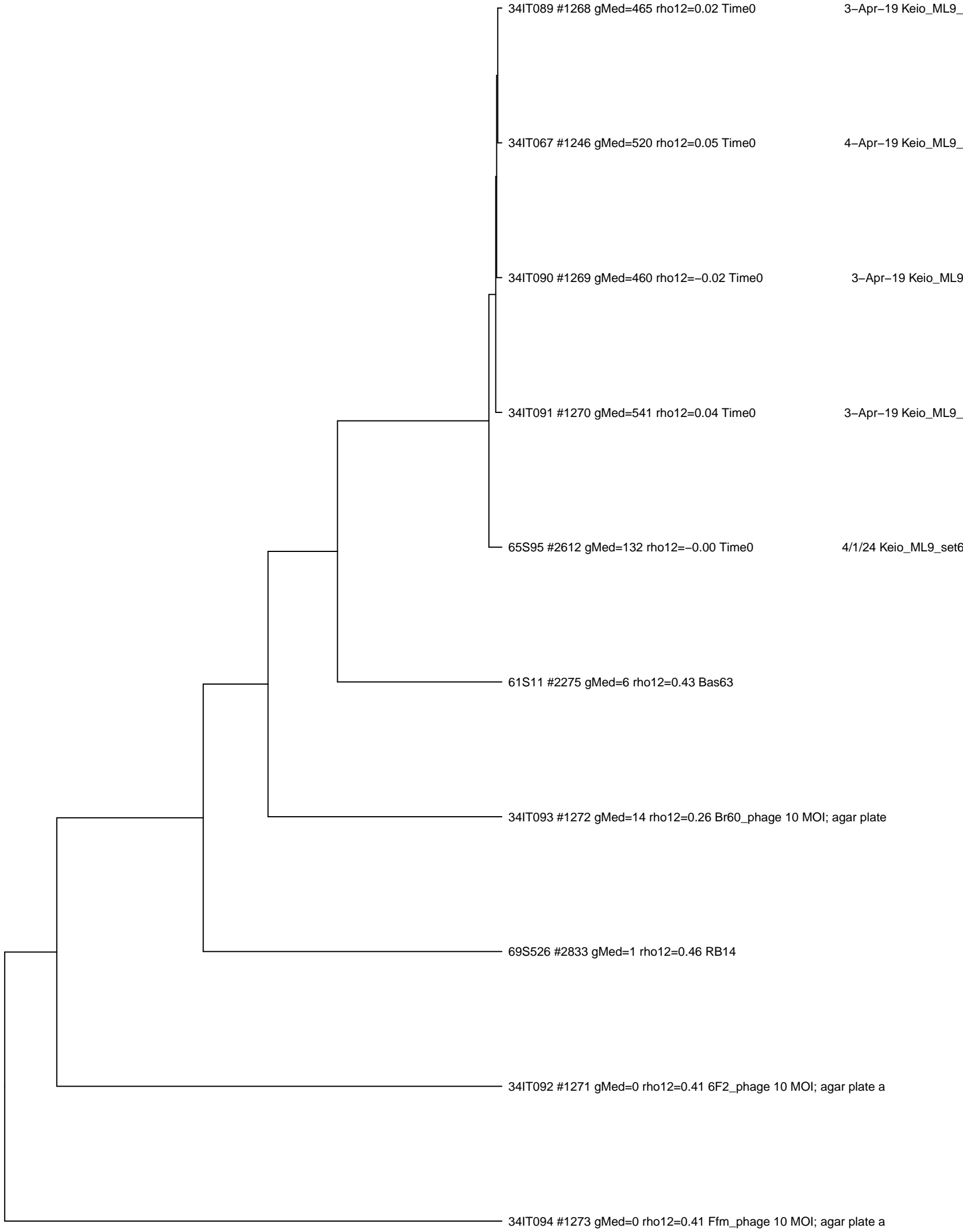
0.8 0.6 0.4 0.2 0.0

4-Apr-19 Keio_ML9_set34 and similar samples
(clustered by log-count)



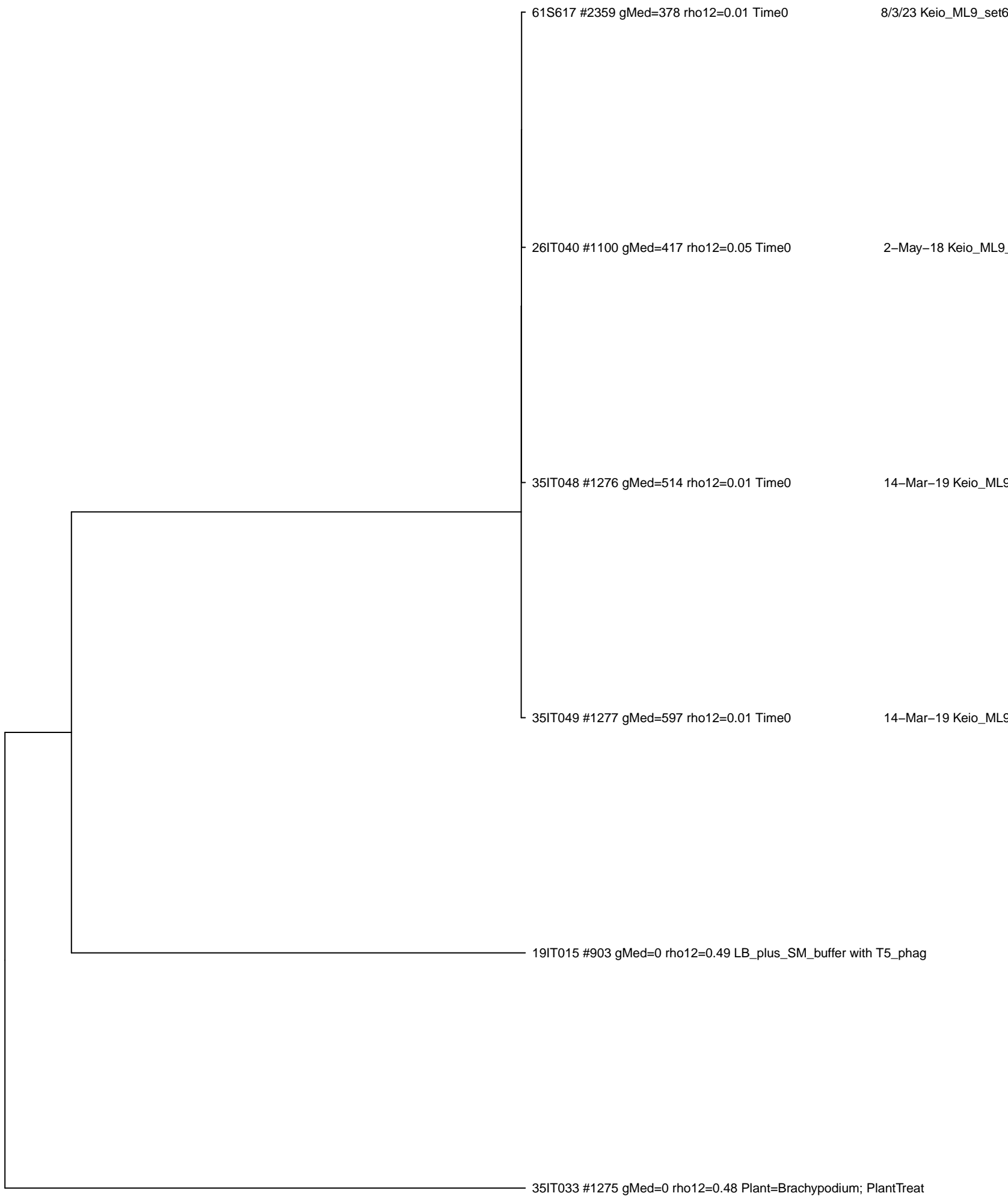
0.6 0.5 0.4 0.3 0.2 0.1 0.0

3-Apr-19 Keio_ML9_set34 and similar samples
(clustered by log-count)



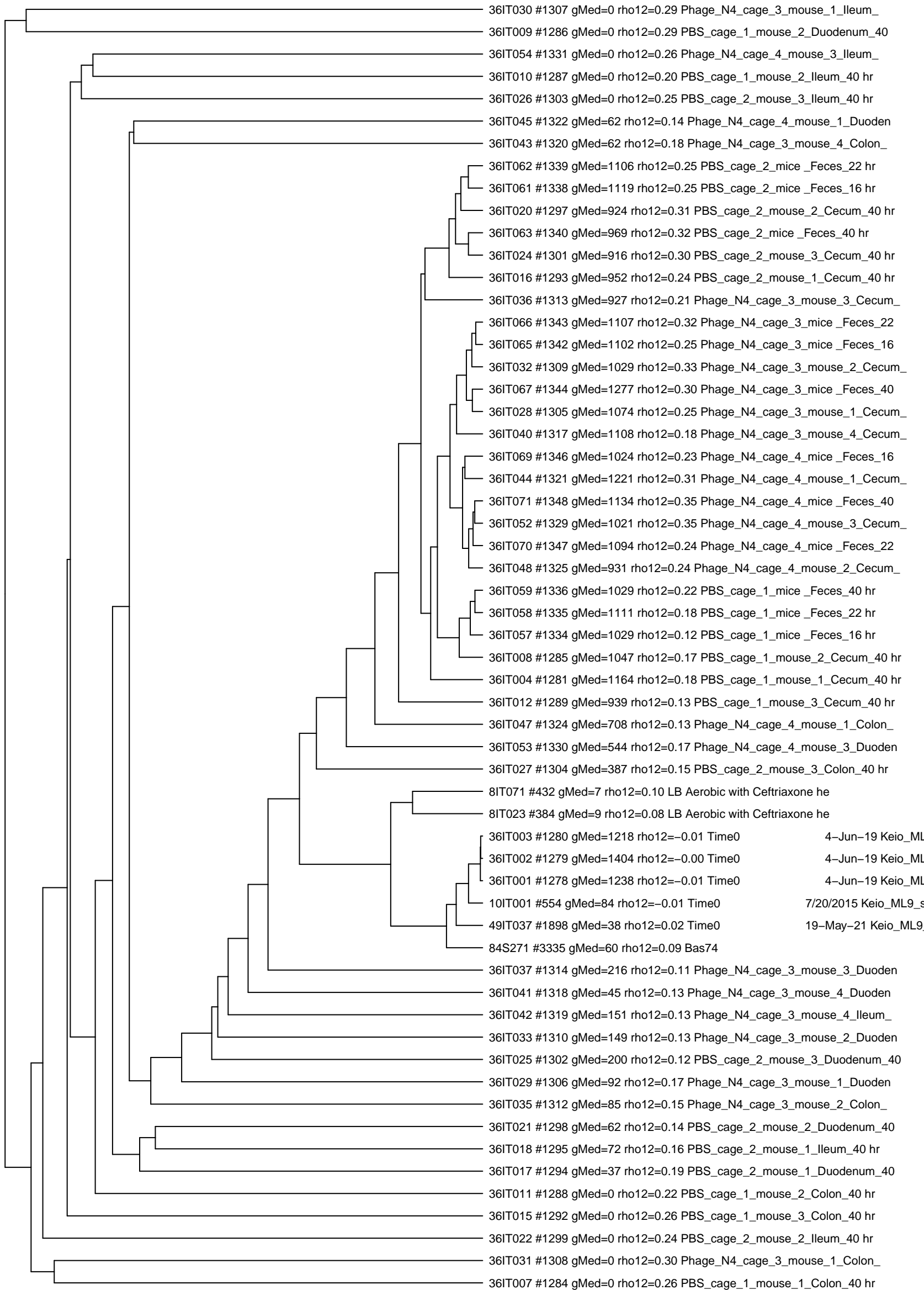
0.6 0.4 0.2 0.0

14-Mar-19 Keio_ML9_set35 and similar samples
(clustered by log-count)



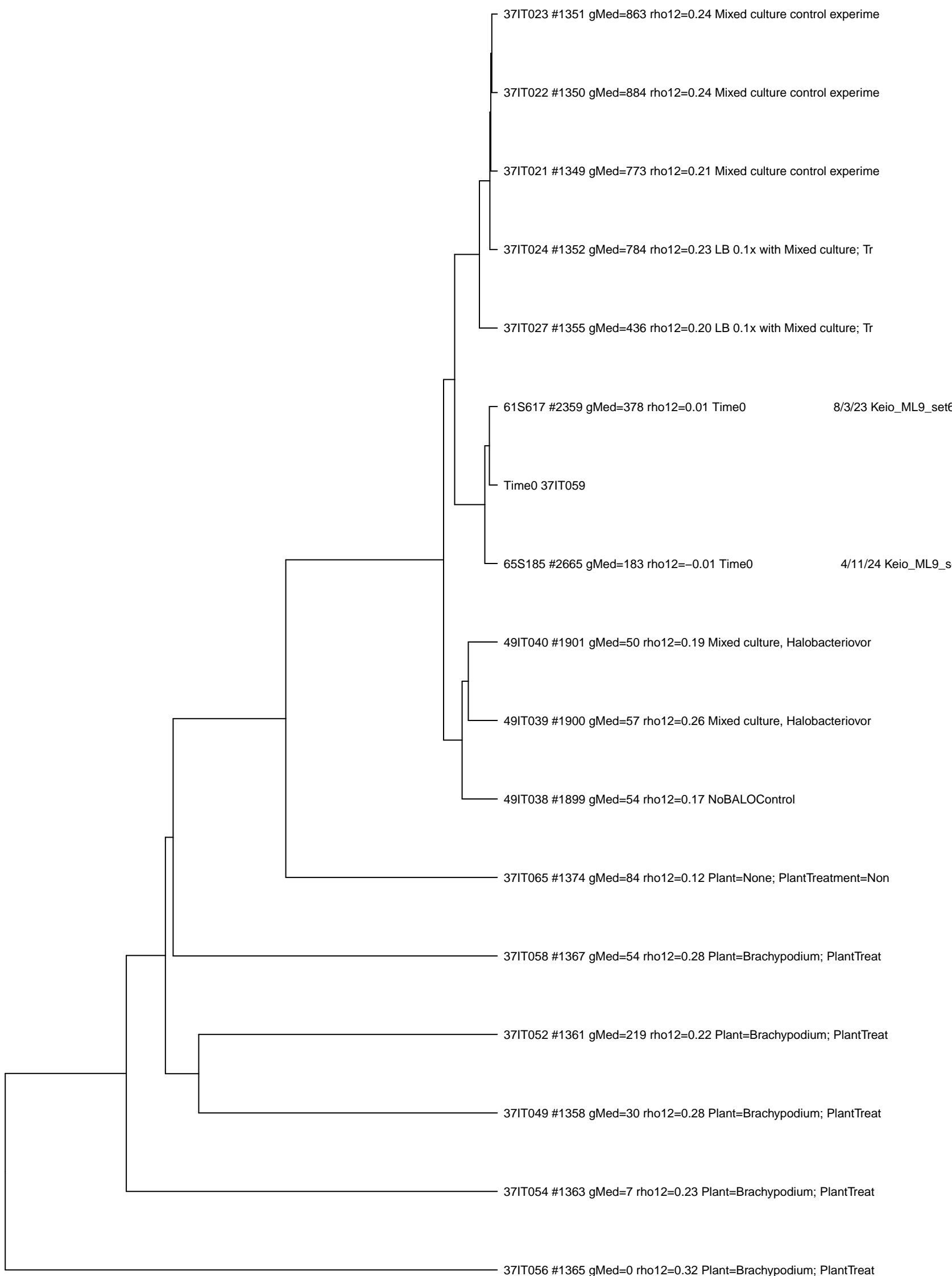
0.8 0.6 0.4 0.2 0.0

4-Jun-19 Keio_ML9_set36 and similar samples
(clustered by log-count)



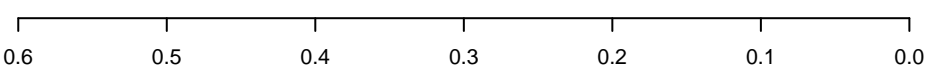
0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

25-Jun-19 Keio_ML9_set37 and similar samples
(clustered by log-count)

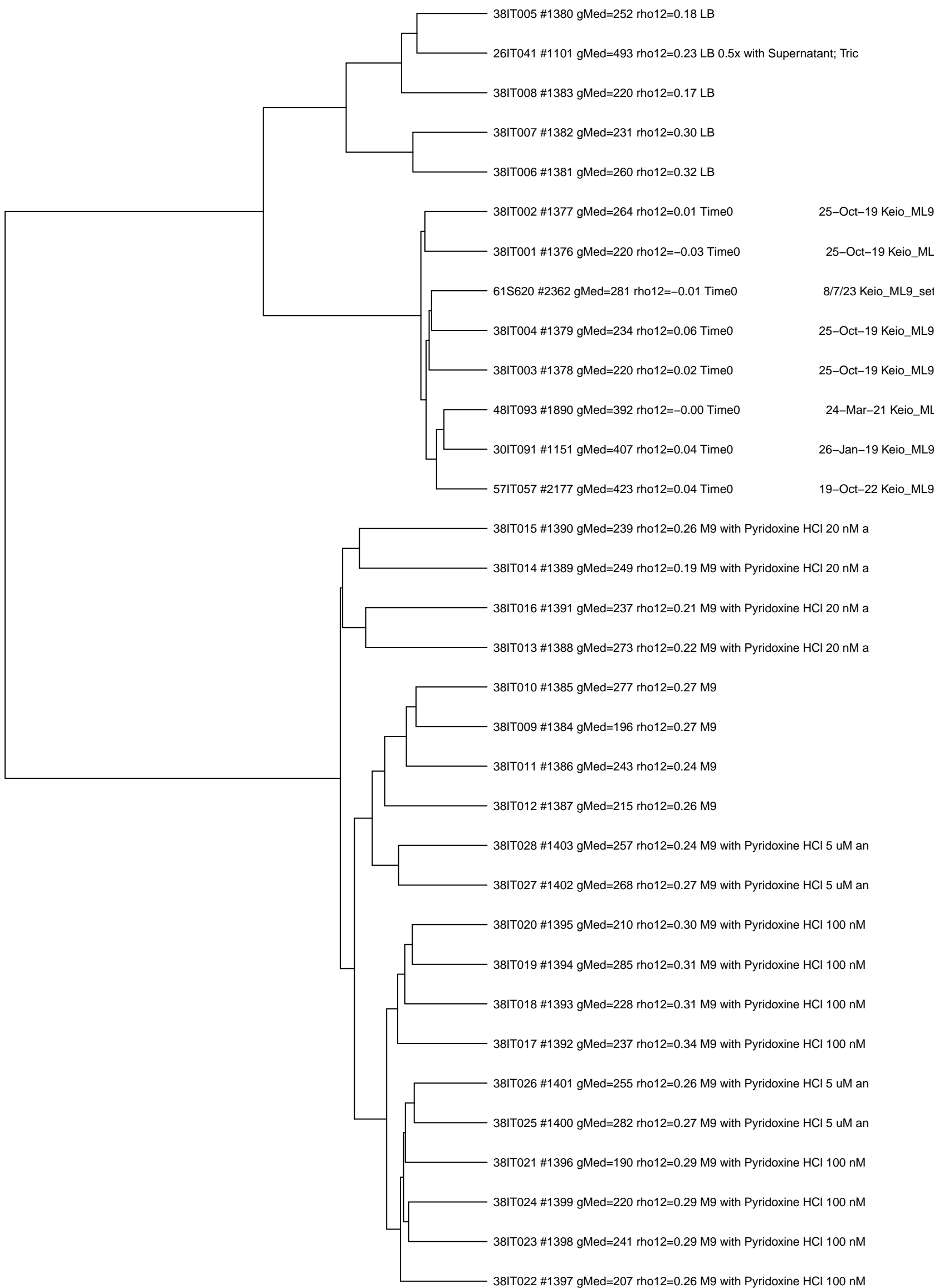


8/3/23 Keio_ML9_set6

4/11/24 Keio_ML9_s

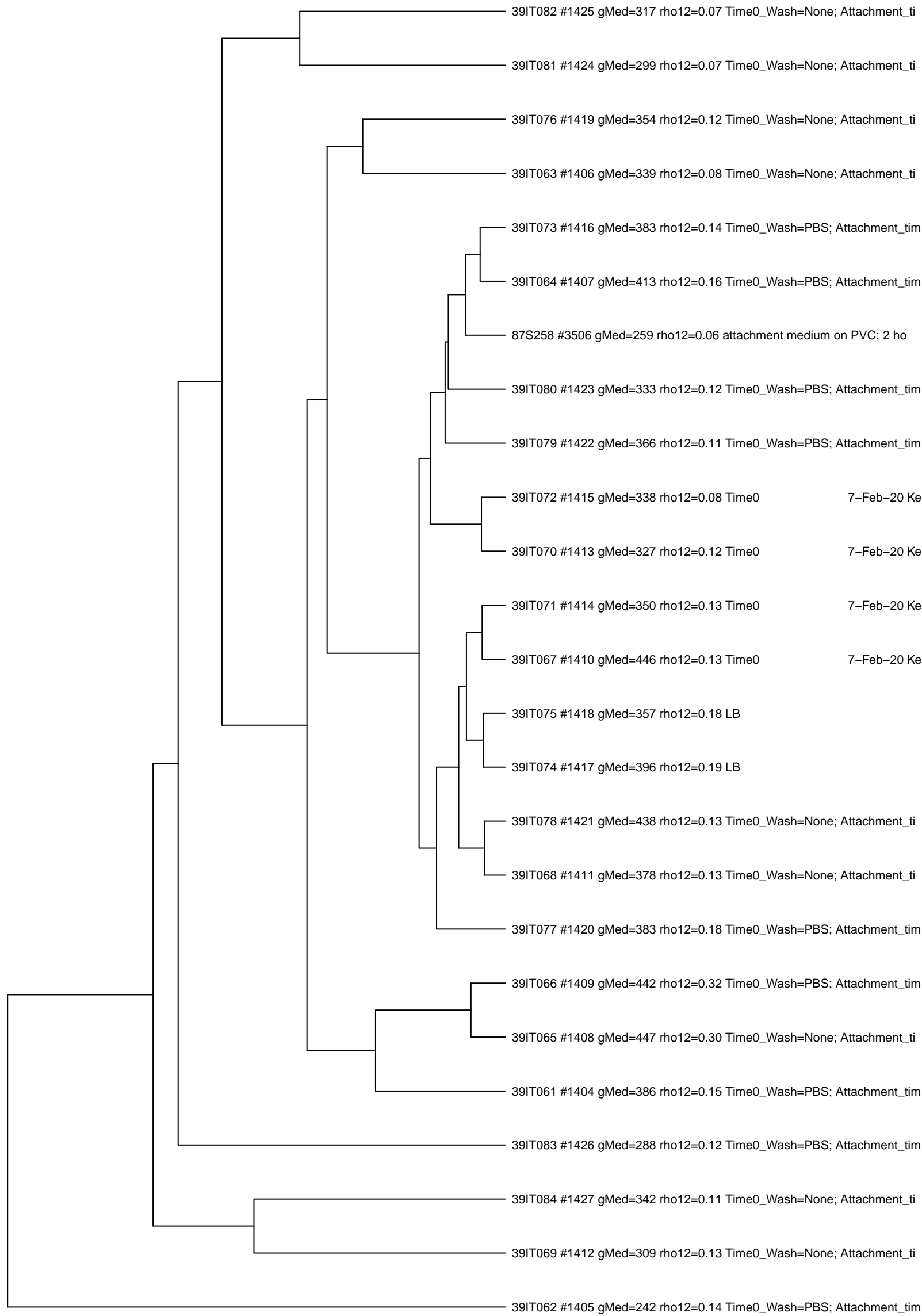


25-Oct-19 Keio_ML9_set38 and similar samples
(clustered by log-count)



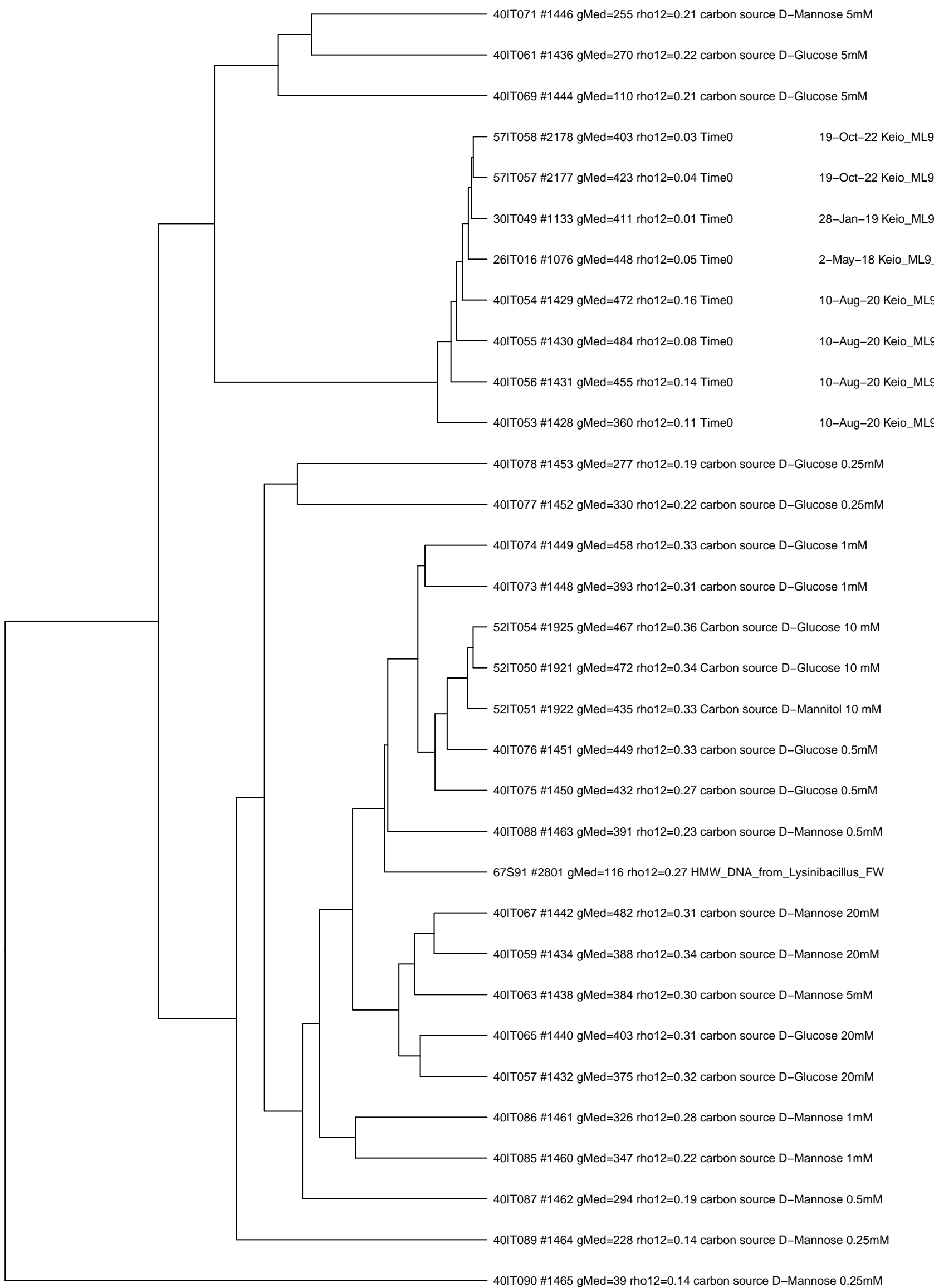
0.08 0.06 0.04 0.02 0.00

7-Feb-20 Keio_ML9_set39 and similar samples
(clustered by log-count)



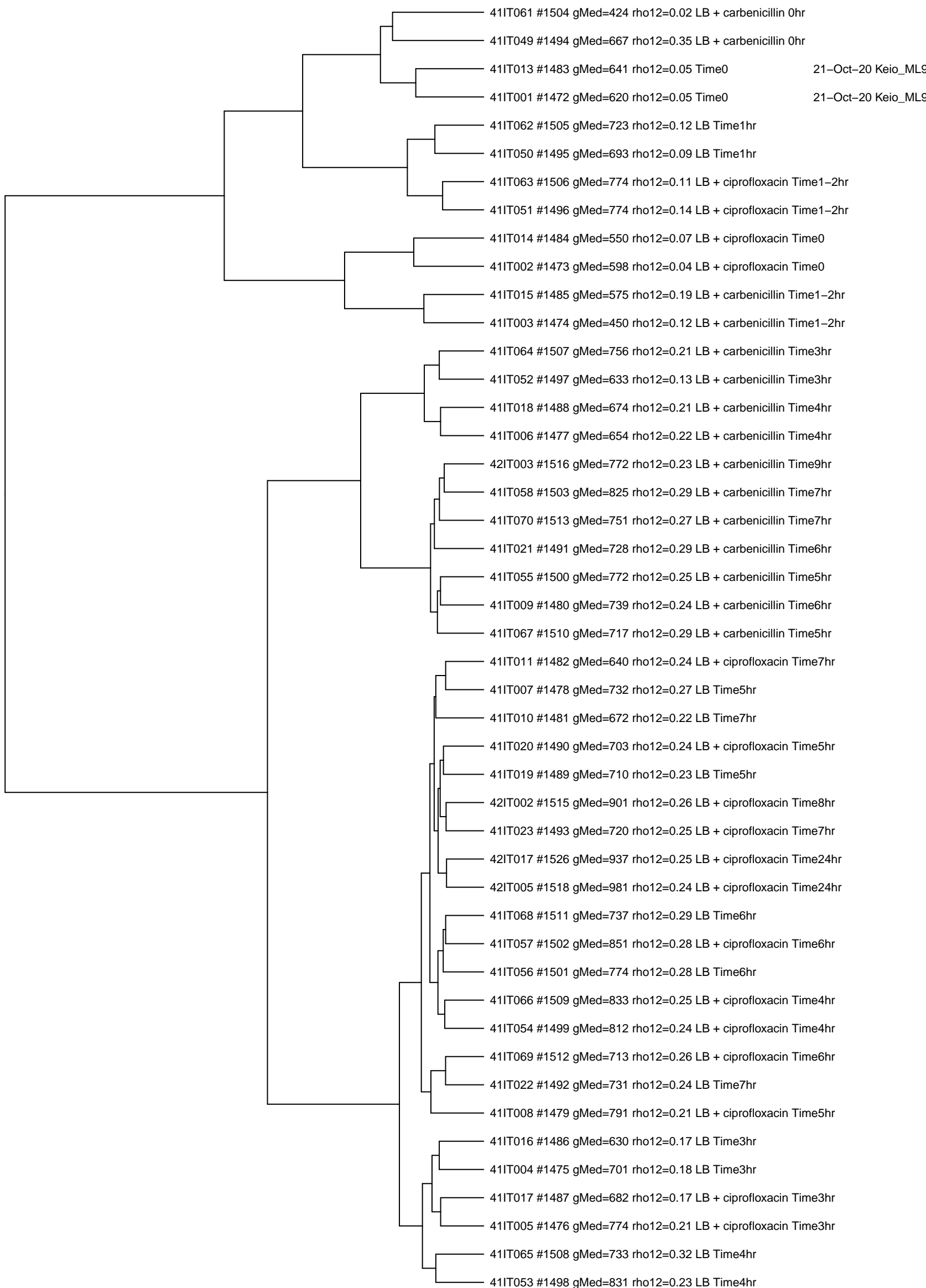
0.15 0.10 0.05 0.00

10-Aug-20 Keio_ML9_set40 and similar samples
(clustered by log-count)



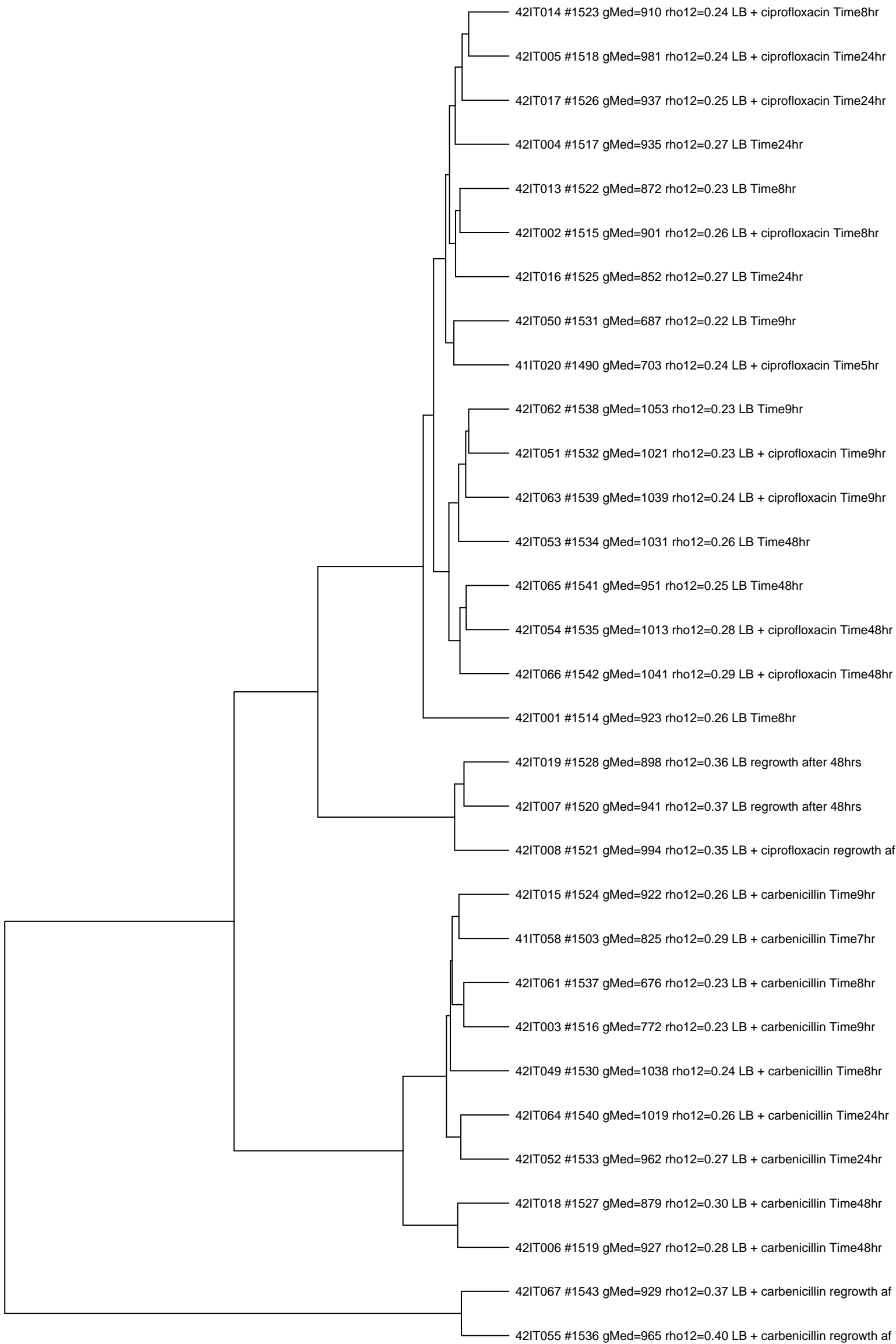
0.25 0.20 0.15 0.10 0.05 0.00

21-Oct-20 Keio_ML9_set41 and similar samples
(clustered by log-count)



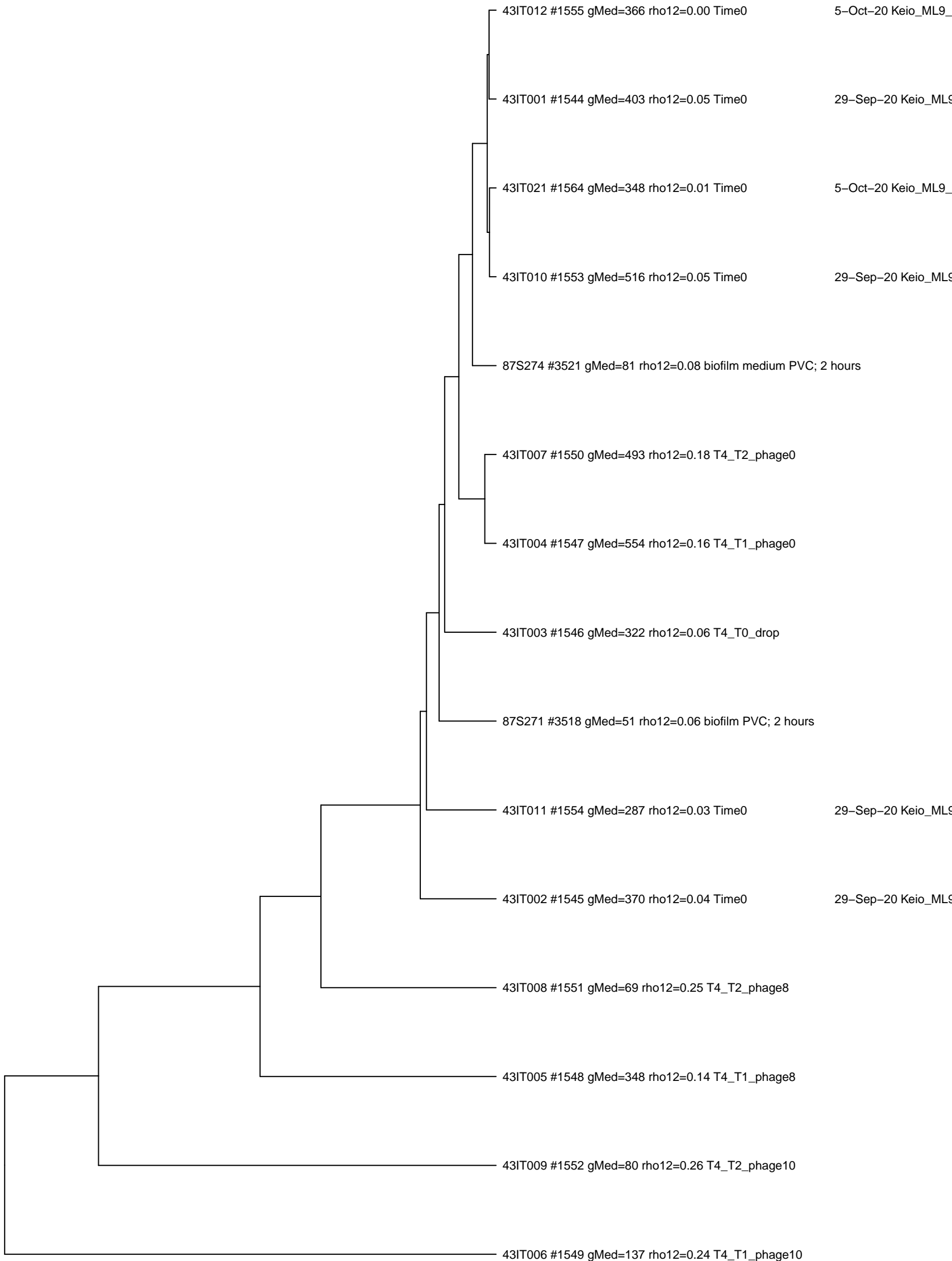
0.04 0.03 0.02 0.01 0.00

21-Oct-20 and similar samples
(clustered by log-count)



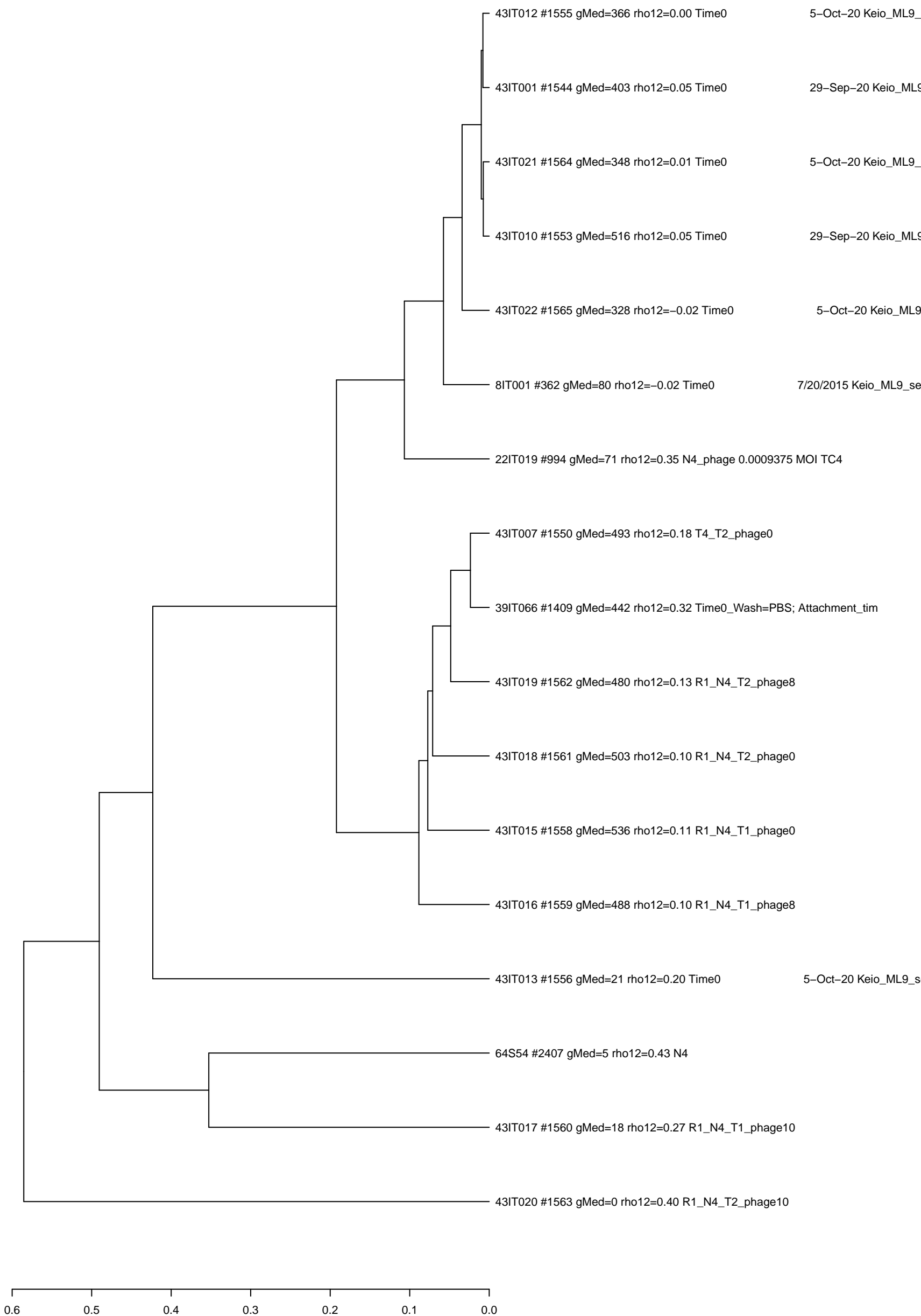
0.03 0.02 0.01 0.00

29-Sep-20 Keio_ML9_set43 and similar samples
(clustered by log-count)



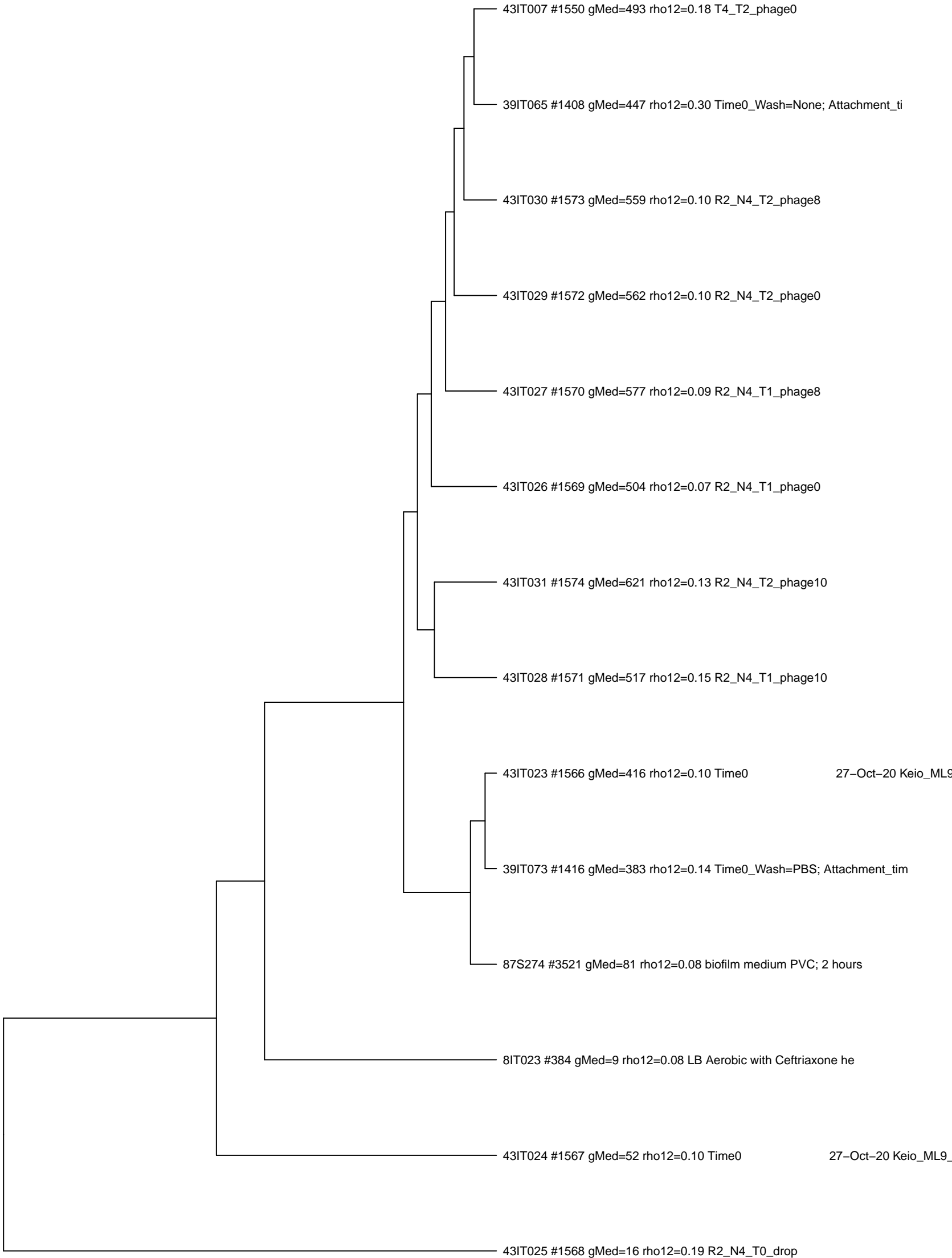
0.5 0.4 0.3 0.2 0.1 0.0

5-Oct-20 Keio_ML9_set43 and similar samples
(clustered by log-count)



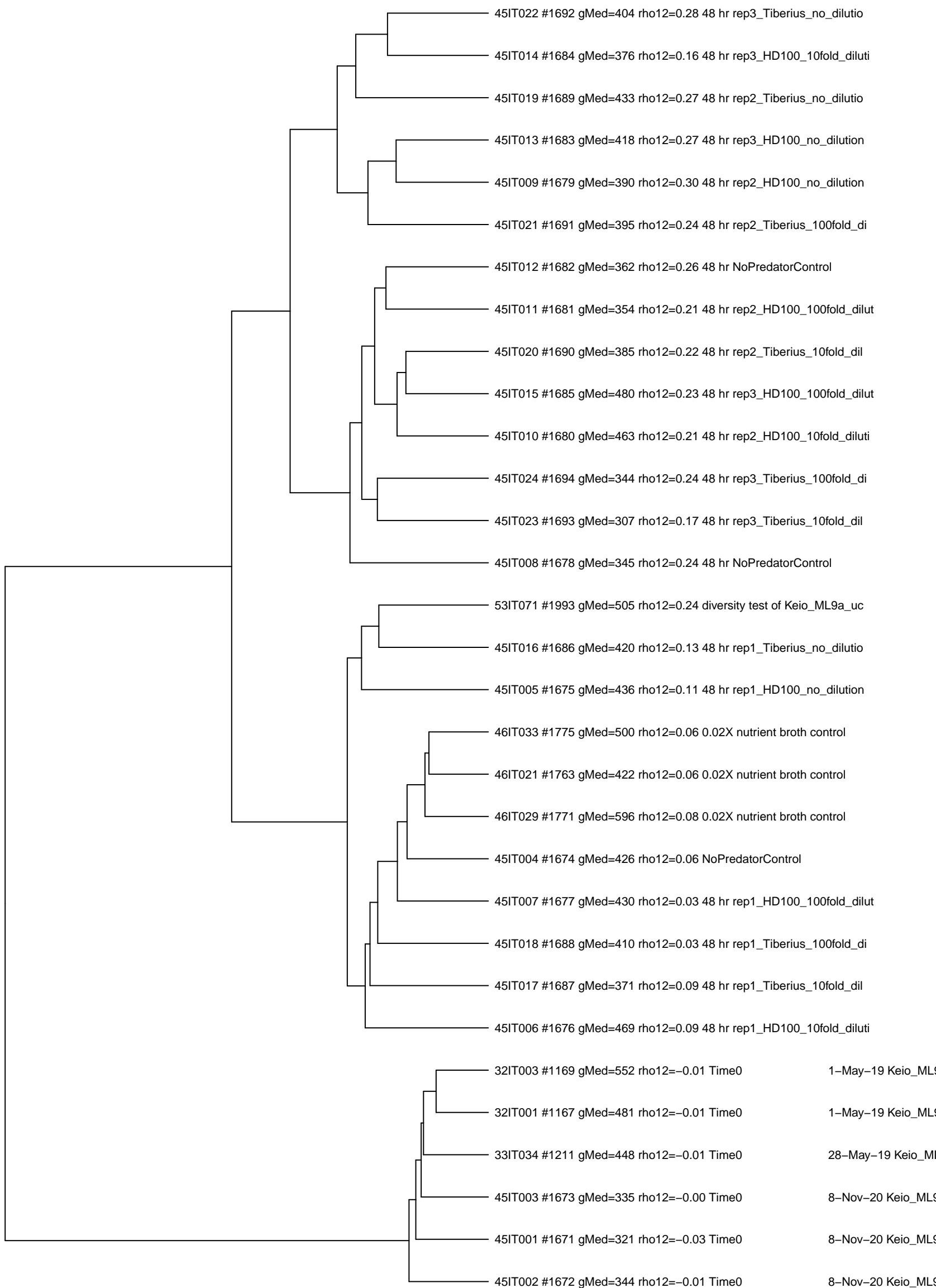
0.6 0.5 0.4 0.3 0.2 0.1 0.0

27-Oct-20 Keio_ML9_set43 and similar samples
(clustered by log-count)



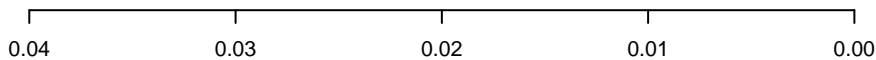
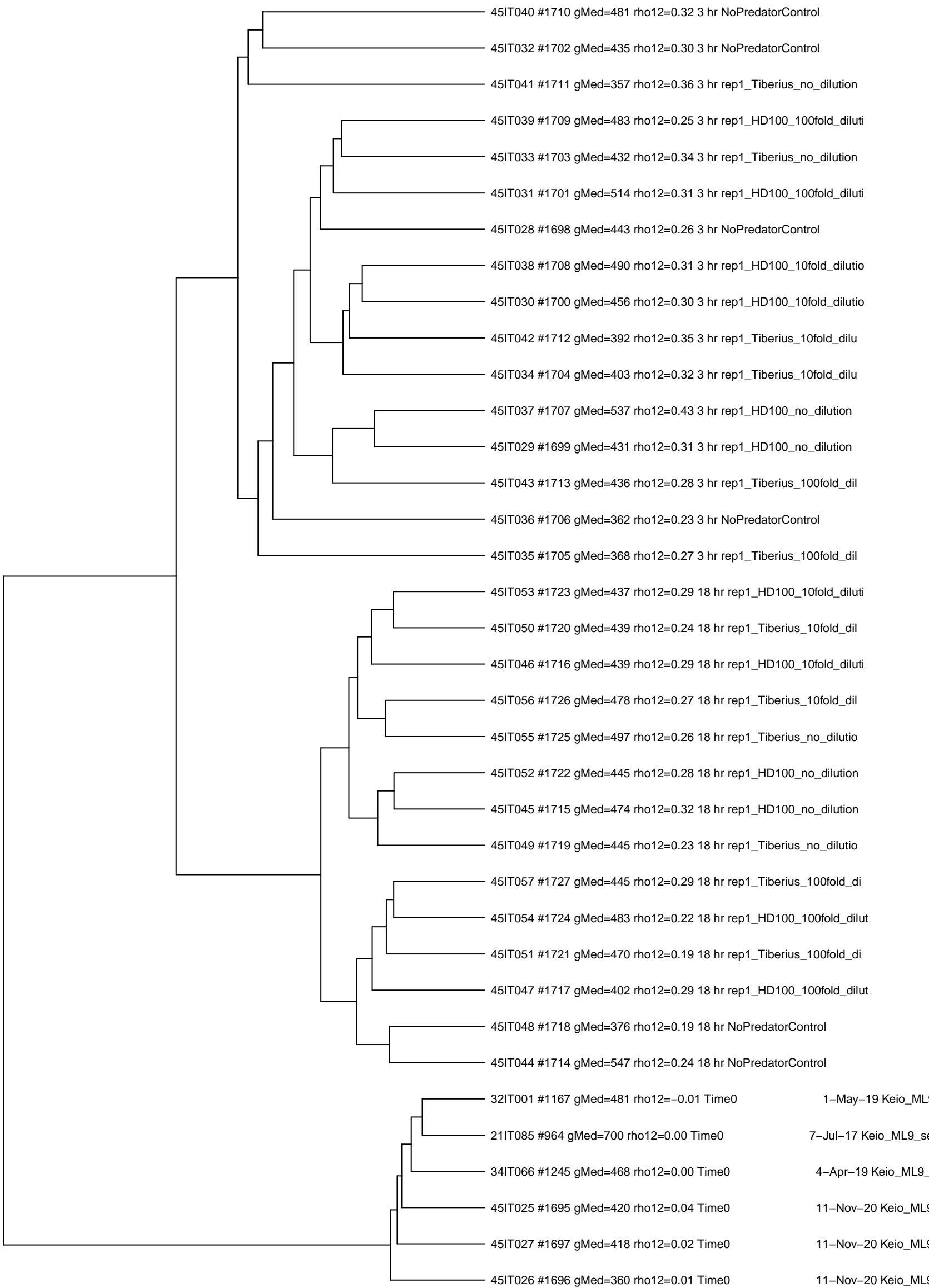
0.4 0.3 0.2 0.1 0.0

8-Nov-20 Keio_ML9_set45 and similar samples
(clustered by log-count)

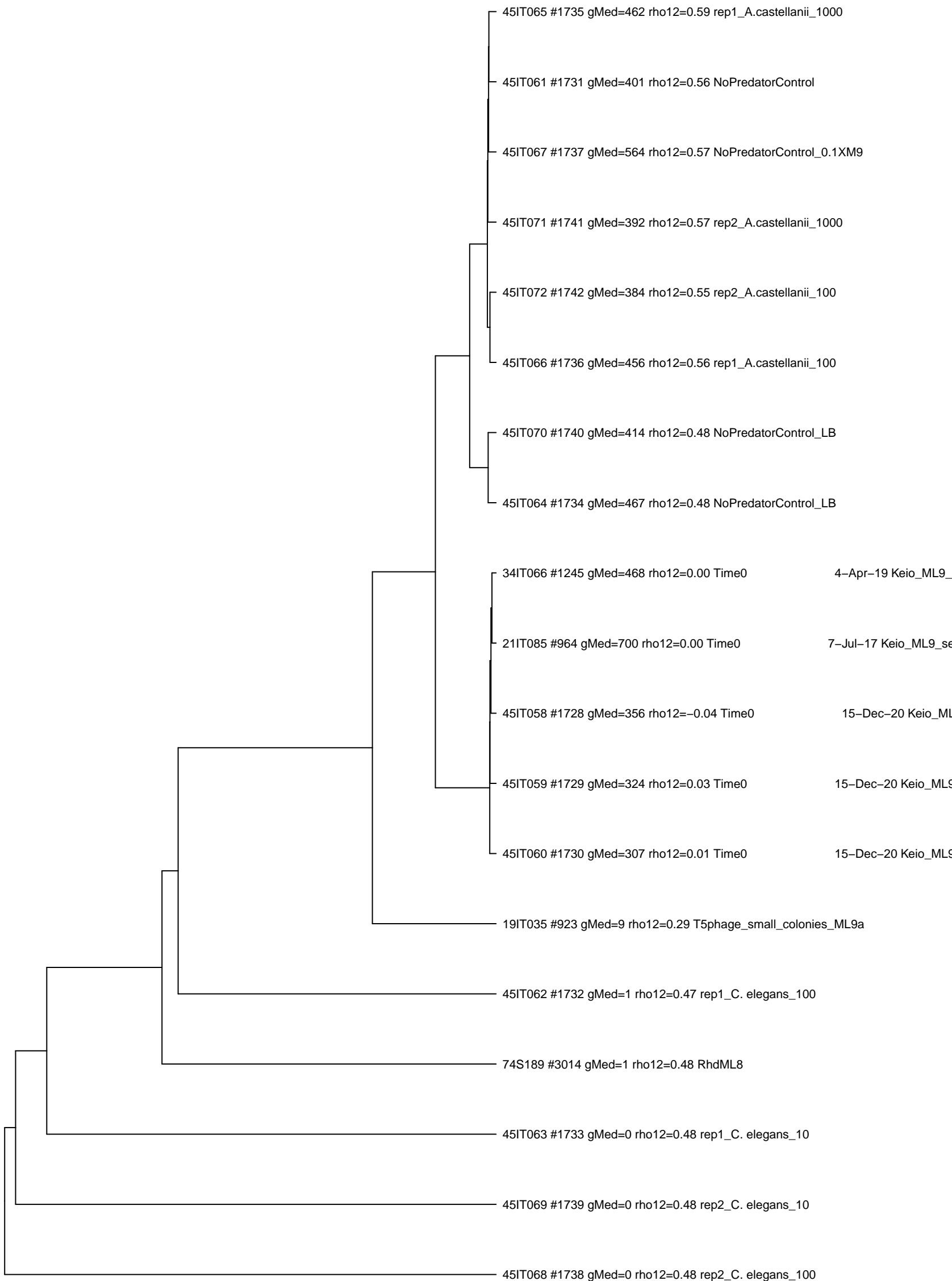


0.05 0.04 0.03 0.02 0.01 0.00

11-Nov-20 Keio_ML9_set45 and similar samples
(clustered by log-count)

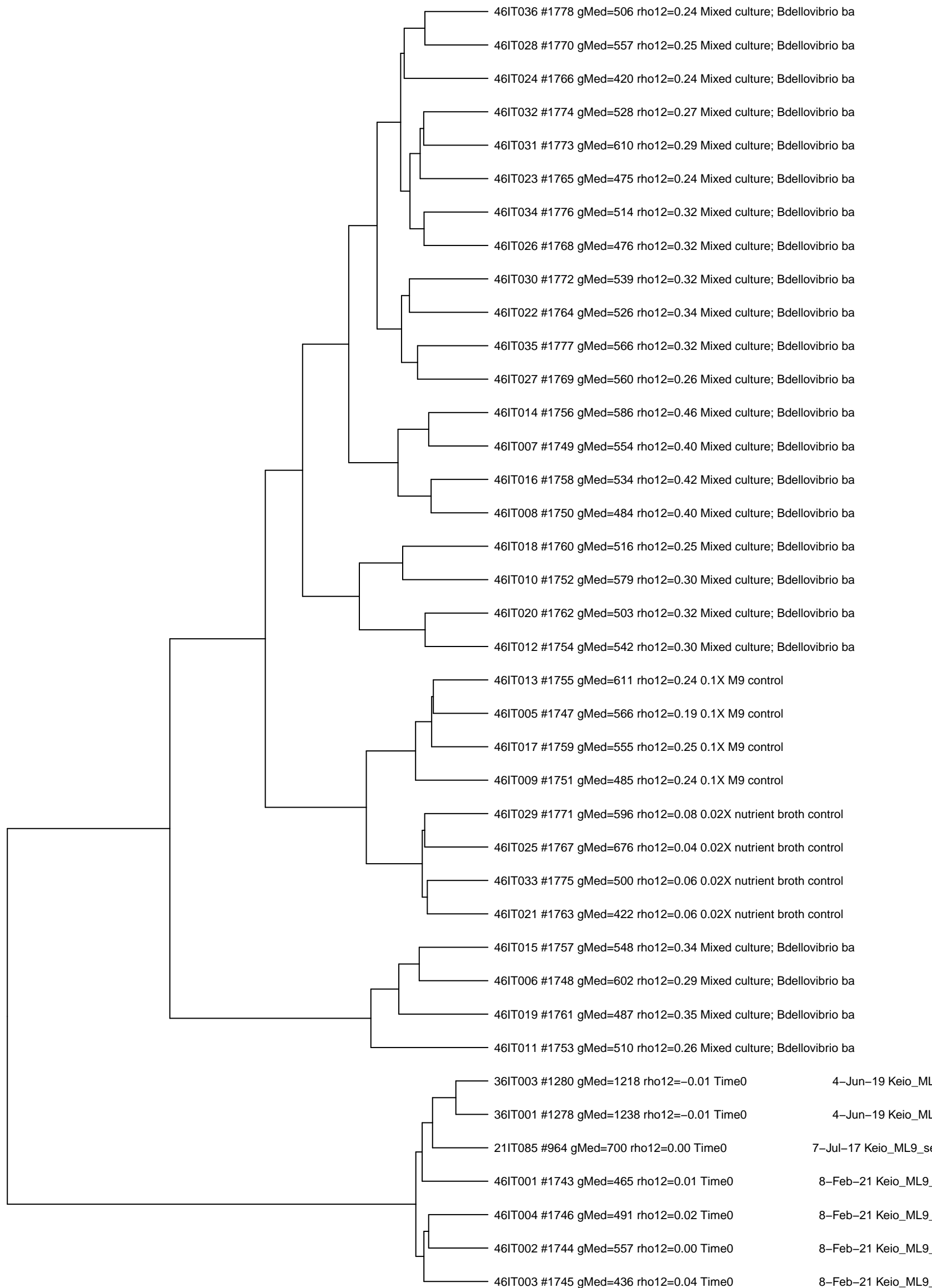


15-Dec-20 Keio_ML9_set45 and similar samples
(clustered by log-count)



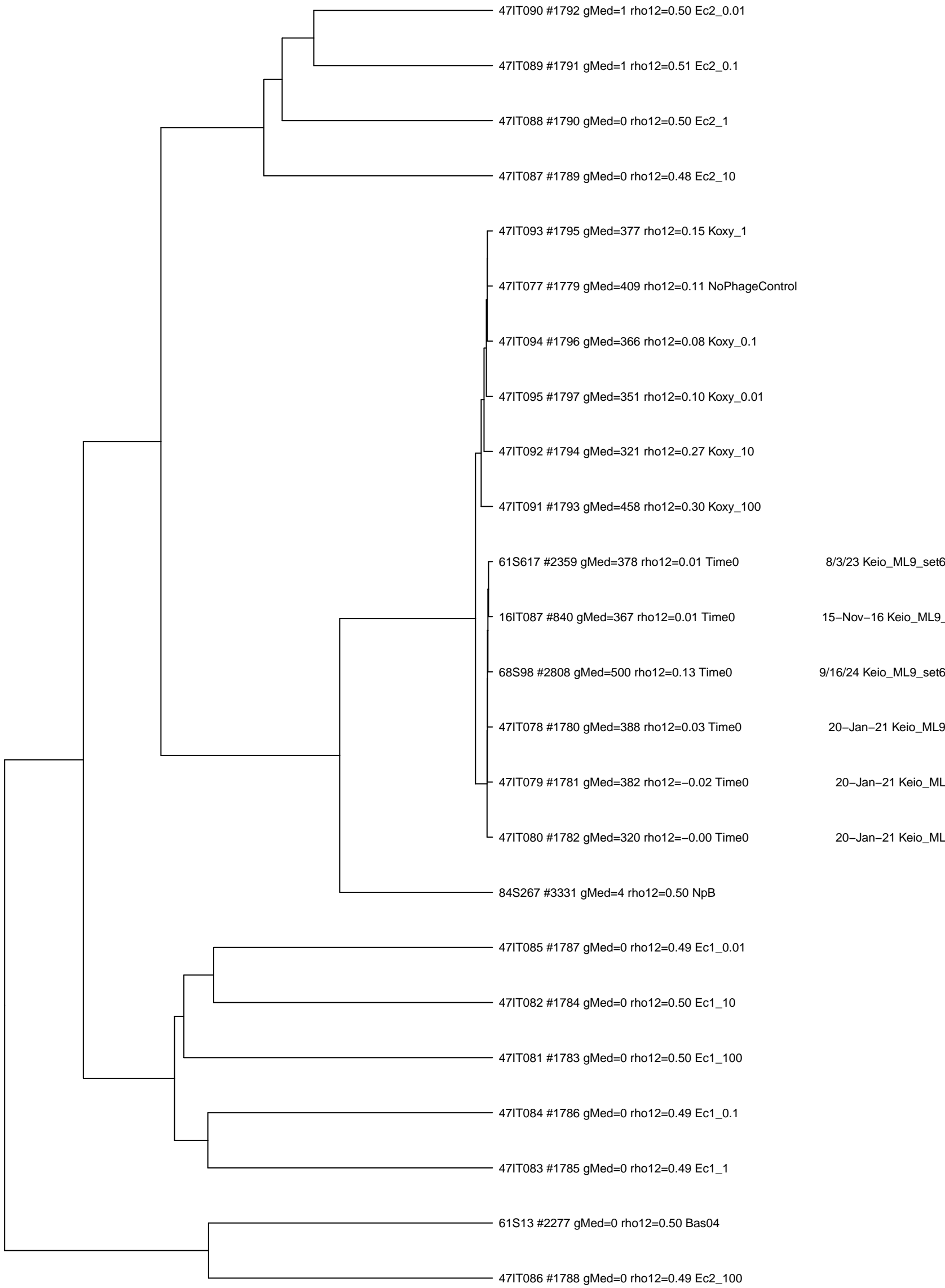
0.6 0.4 0.2 0.0

8-Feb-21 Keio_ML9_set46 and similar samples
(clustered by log-count)



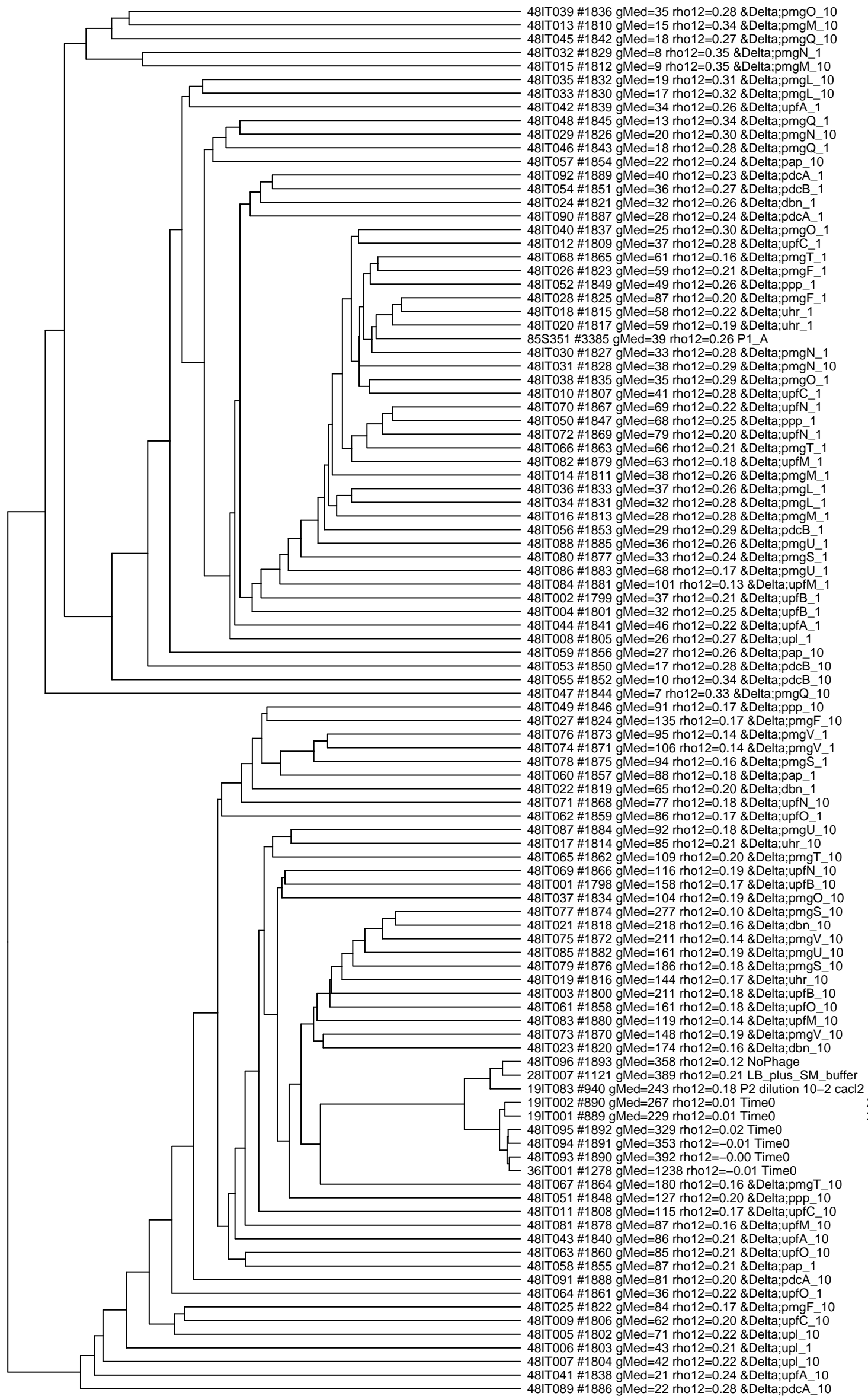
0.05 0.04 0.03 0.02 0.01 0.00

20-Jan-21 Keio_ML9_set47 and similar samples
(clustered by log-count)



0.8 0.6 0.4 0.2 0.0

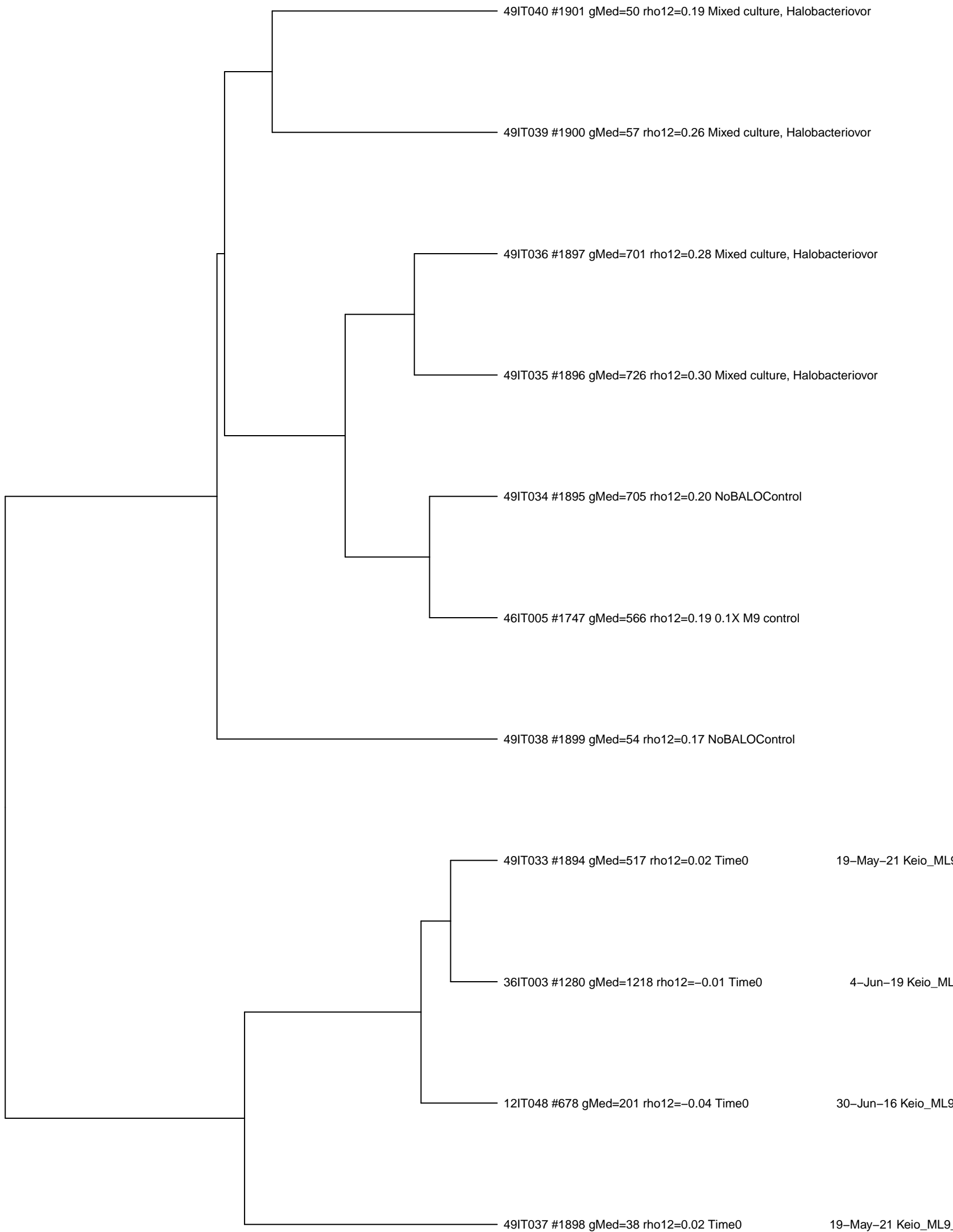
24-Mar-21 Keio_ML9_set48 and similar samples
(clustered by log-count)



22-Mar-17 Keio_ML9_...
 22-Mar-17 Keio_ML9_...
 24-Mar-21 Keio_ML9_...
 24-Mar-21 Keio_ML...
 24-Mar-21 Keio_ML...
 4-Jun-19 Keio_ML...

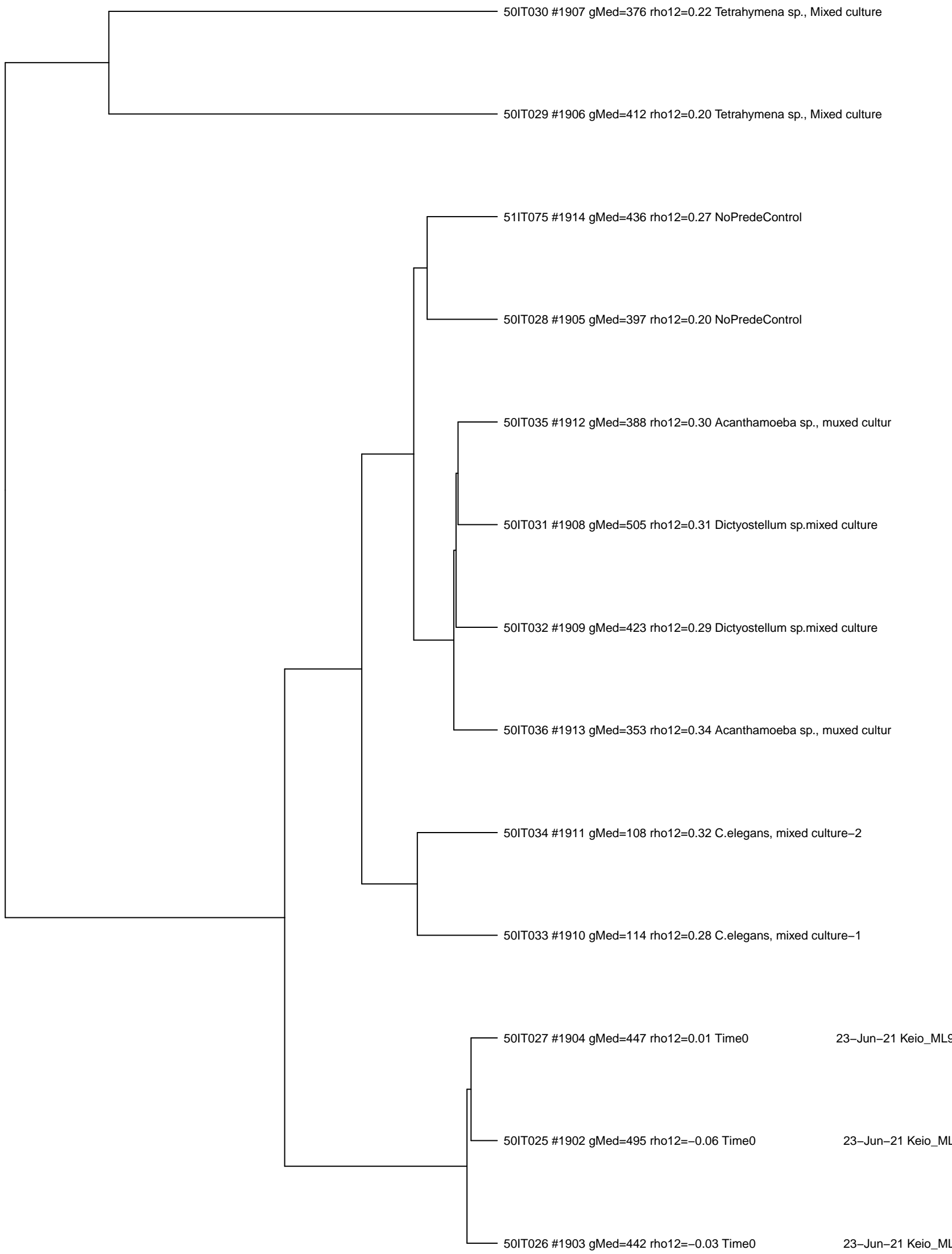
0.30 0.25 0.20 0.15 0.10 0.05 0.00

19-May-21 Keio_ML9_set49 and similar samples
(clustered by log-count)



0.06 0.04 0.02 0.00

23-Jun-21 Keio_ML9_set50 and similar samples
(clustered by log-count)



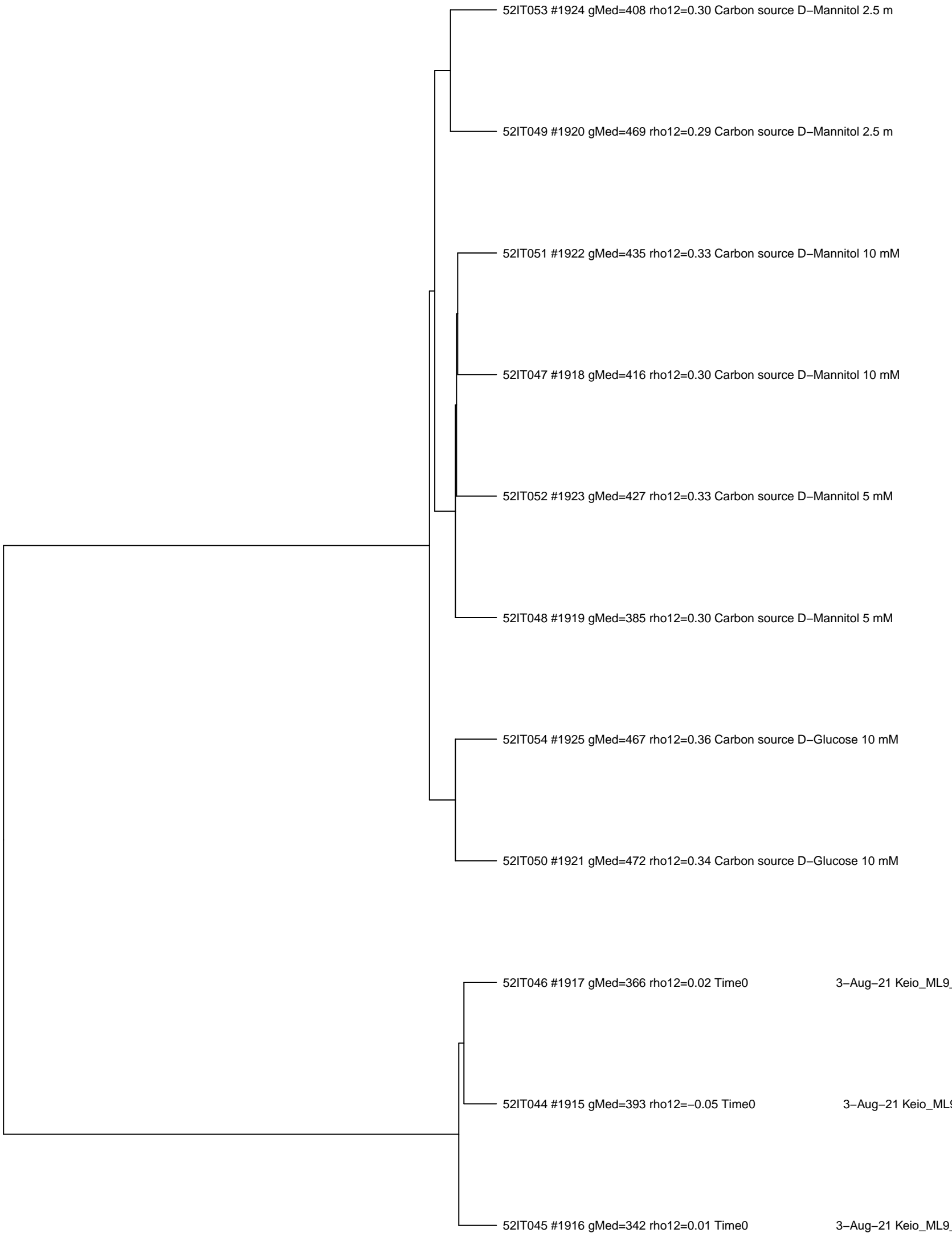
0.14 0.12 0.10 0.08 0.06 0.04 0.02 0.00

23-Jun-21 and similar samples
(clustered by log-count)



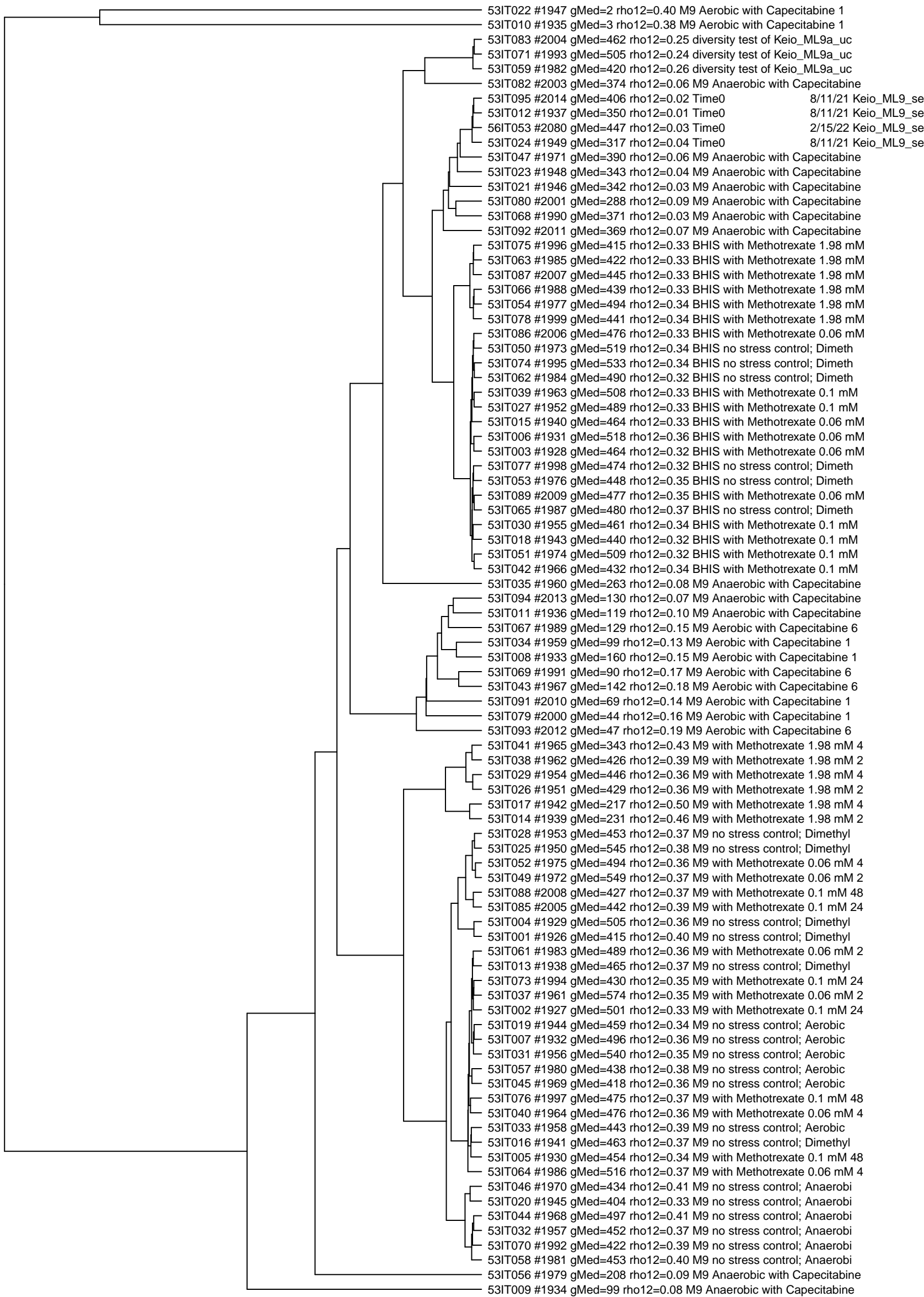
0.015 0.010 0.005 0.000

3-Aug-21 Keio_ML9_set52 and similar samples
(clustered by log-count)



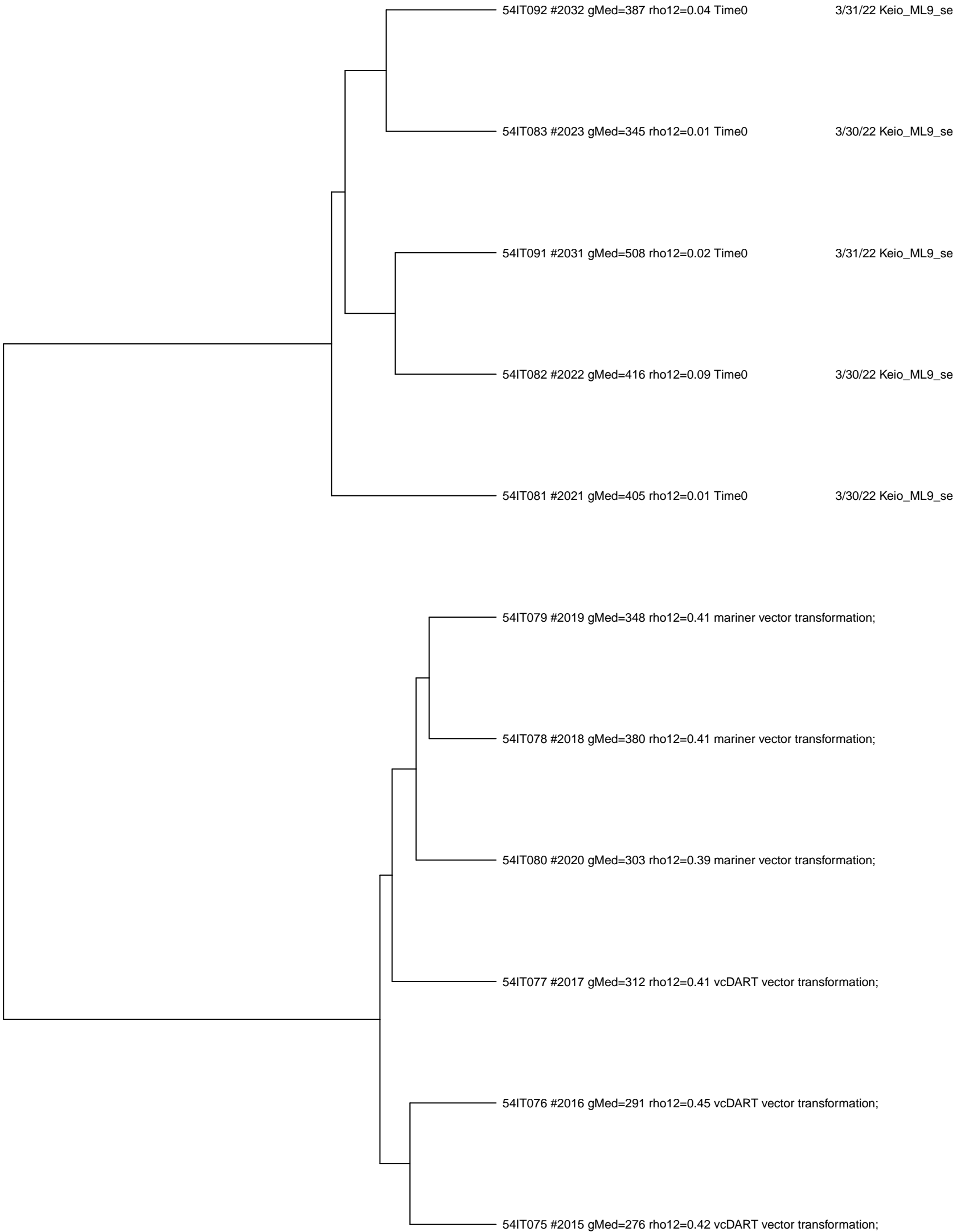
0.08 0.06 0.04 0.02 0.00

8/11/21 Keio_ML9_set53 and similar samples
(clustered by log-count)



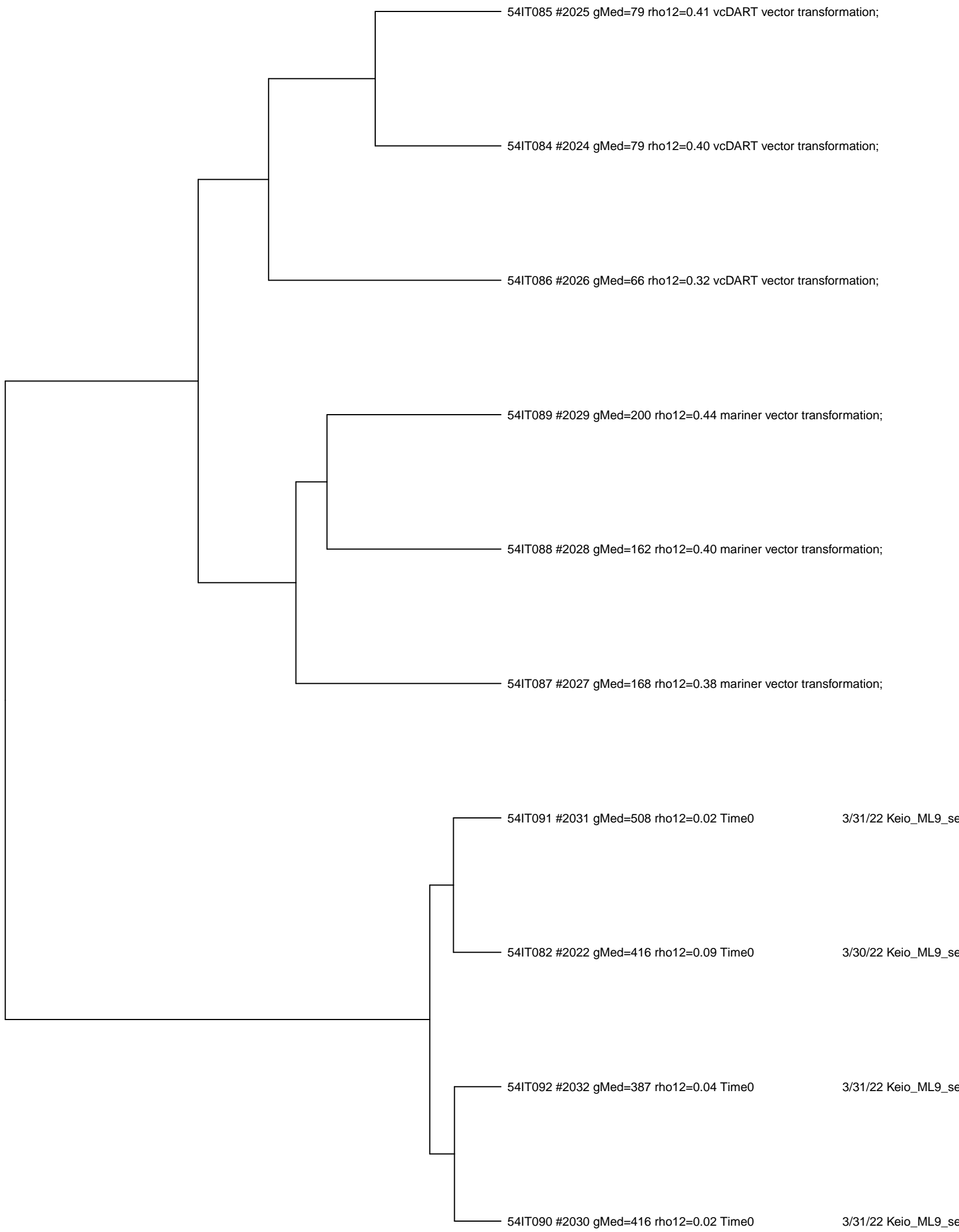
0.4 0.3 0.2 0.1 0.0

3/30/22 Keio_ML9_set54 and similar samples
(clustered by log-count)



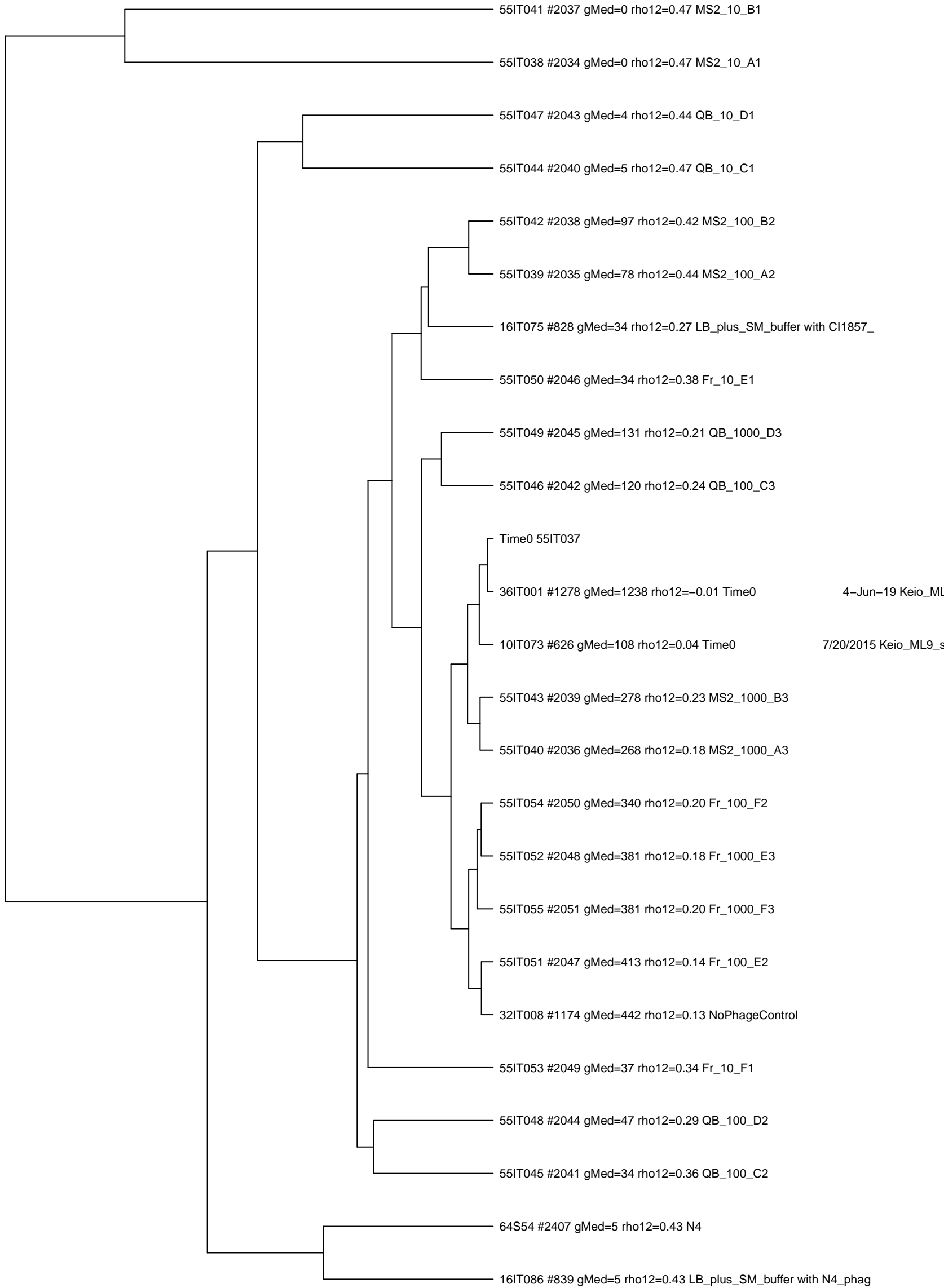
0.06 0.05 0.04 0.03 0.02 0.01 0.00

3/31/22 Keio_ML9_set54 and similar samples
(clustered by log-count)



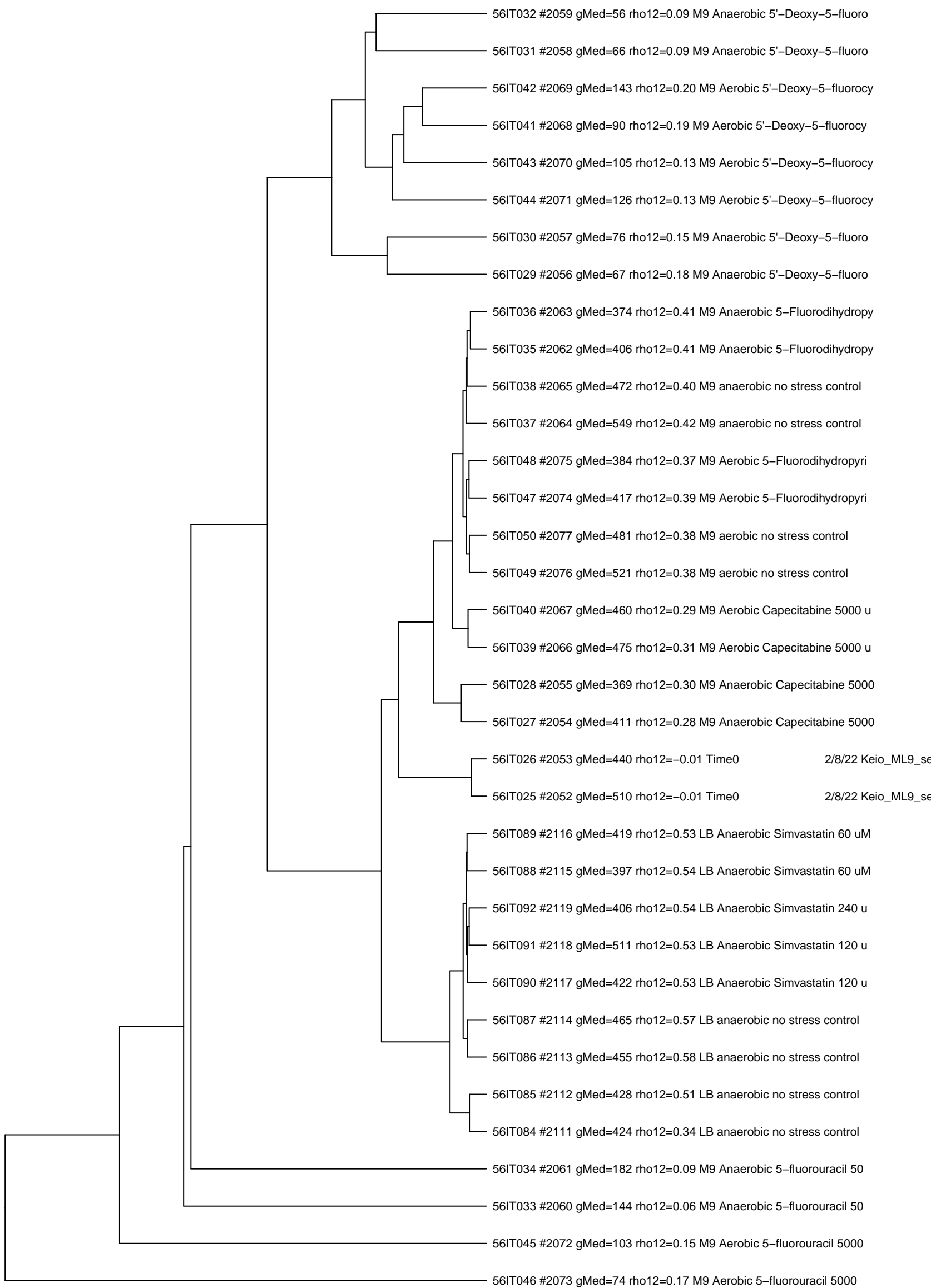
0.14 0.12 0.10 0.08 0.06 0.04 0.02 0.00

7/6/22 Keio_ML9_set55 and similar samples
(clustered by log-count)



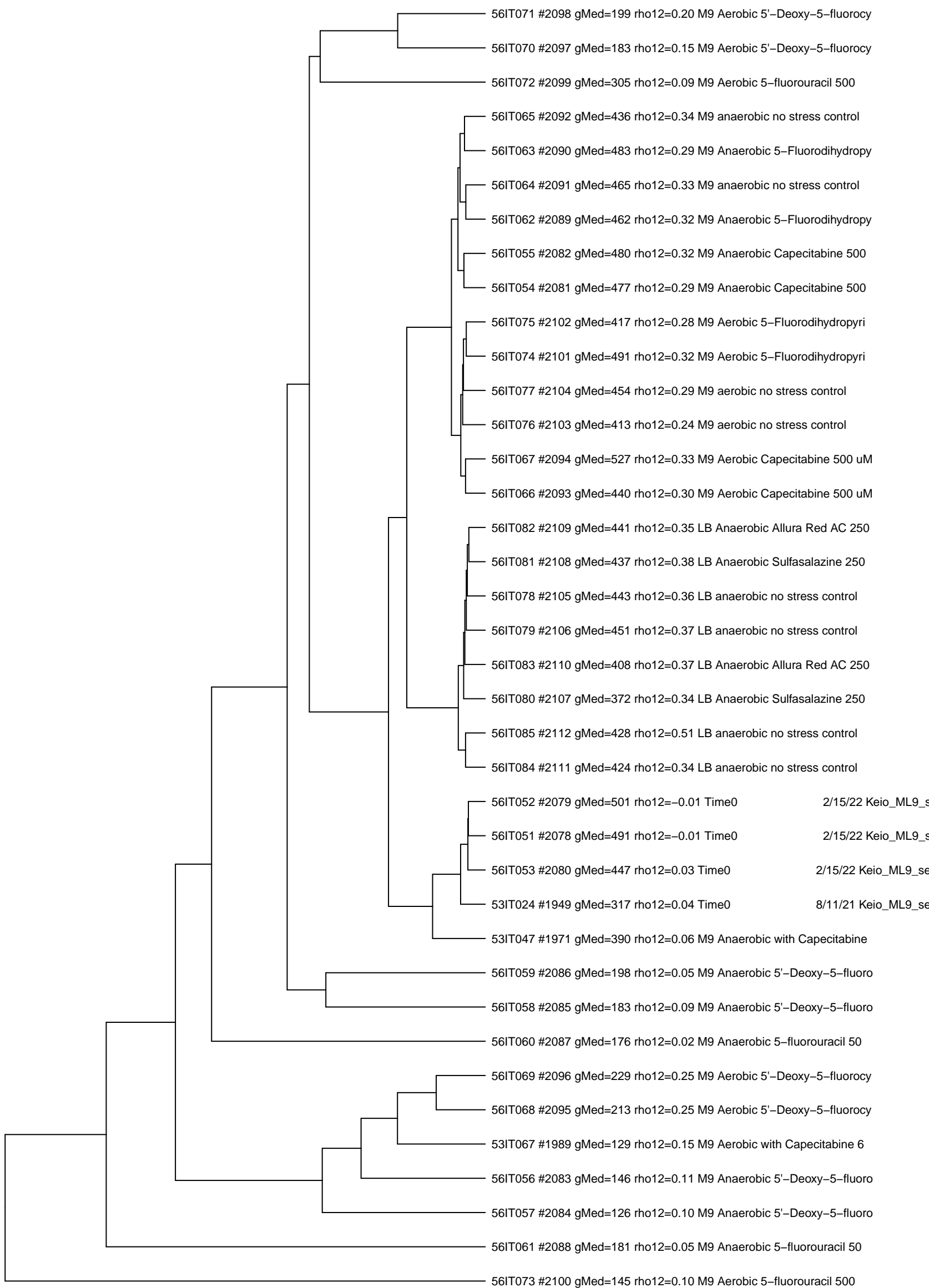
0.6 0.5 0.4 0.3 0.2 0.1 0.0

2/8/22 Keio_ML9_set56 and similar samples
(clustered by log-count)



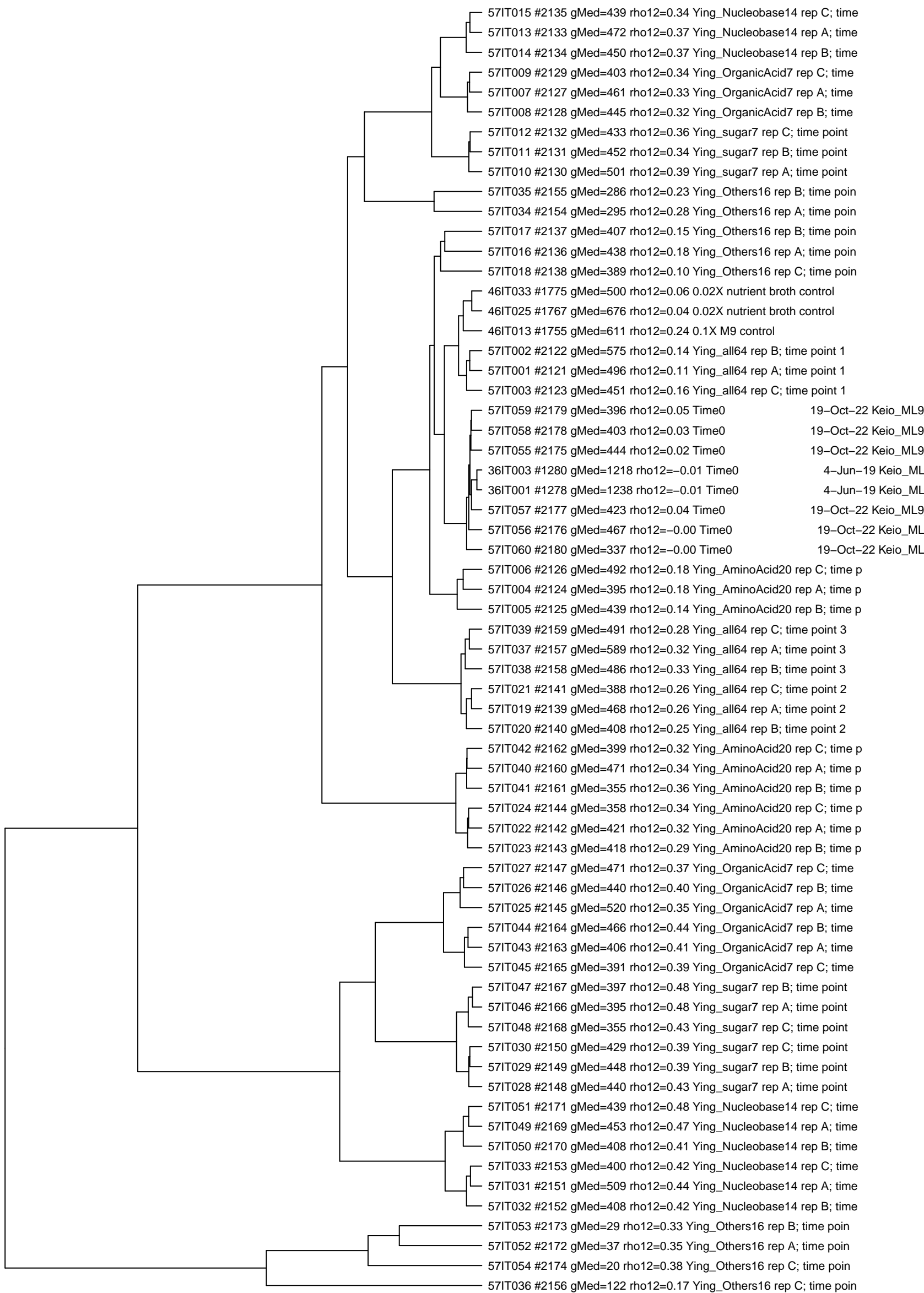
0.20 0.15 0.10 0.05 0.00

2/15/22 Keio_ML9_set56 and similar samples
(clustered by log-count)



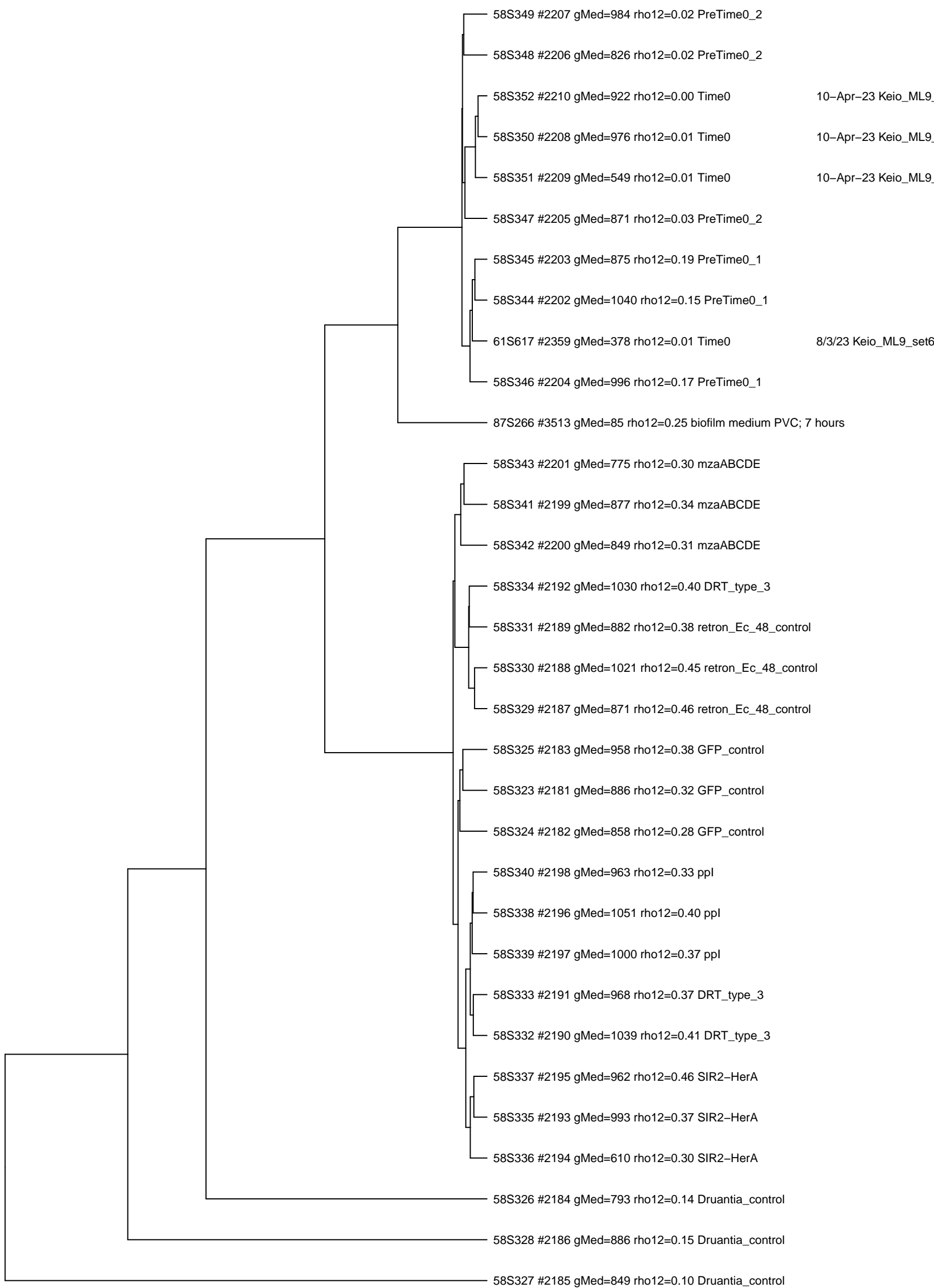
0.15 0.10 0.05 0.00

19-Oct-22 Keio_ML9_set57 and similar samples
(clustered by log-count)



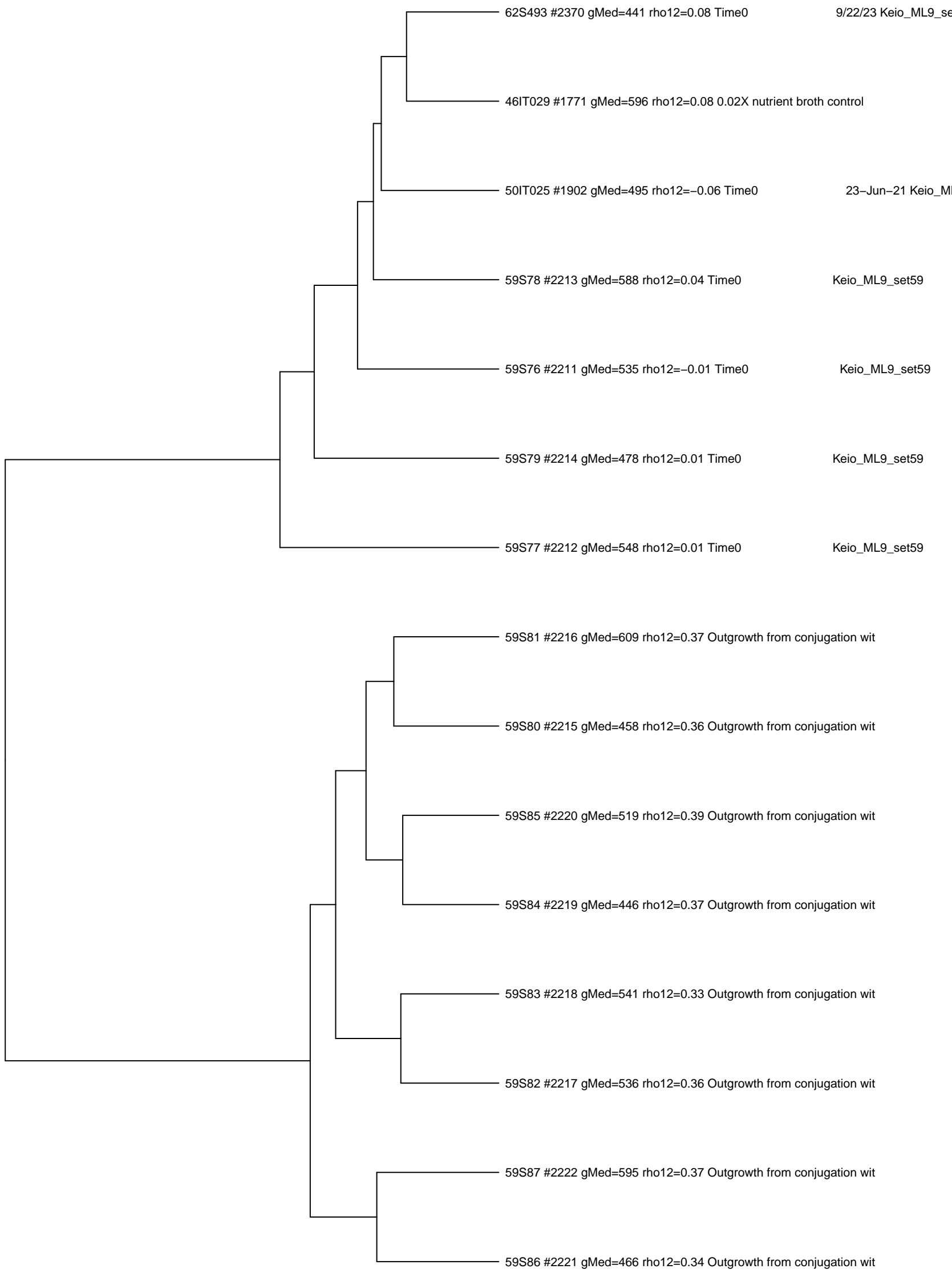
0.30 0.25 0.20 0.15 0.10 0.05 0.00

10-Apr-23 Keio_ML9_set58 and similar samples
(clustered by log-count)



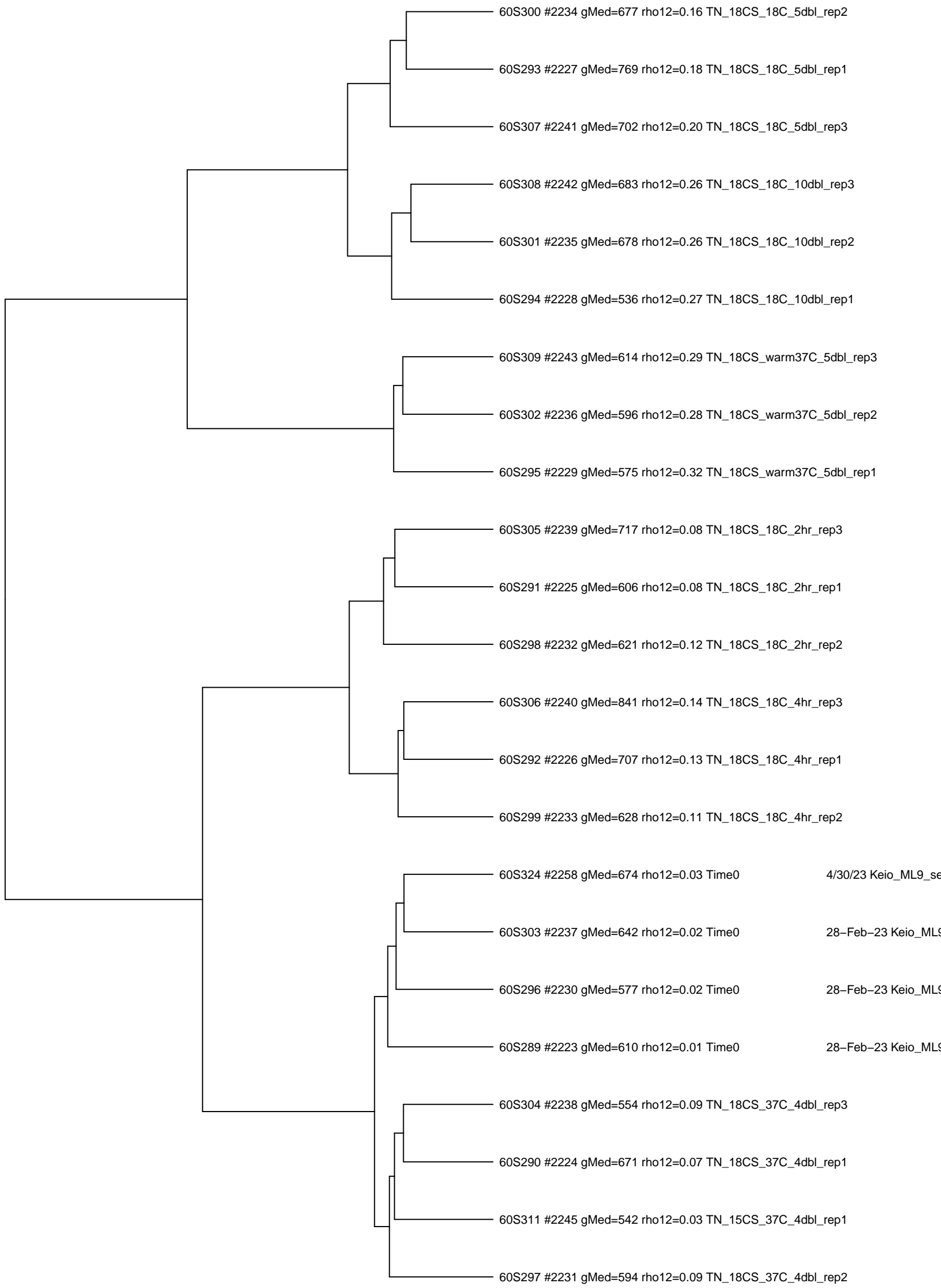
0.30 0.25 0.20 0.15 0.10 0.05 0.00

Keio_ML9_set59 and similar samples
(clustered by log-count)



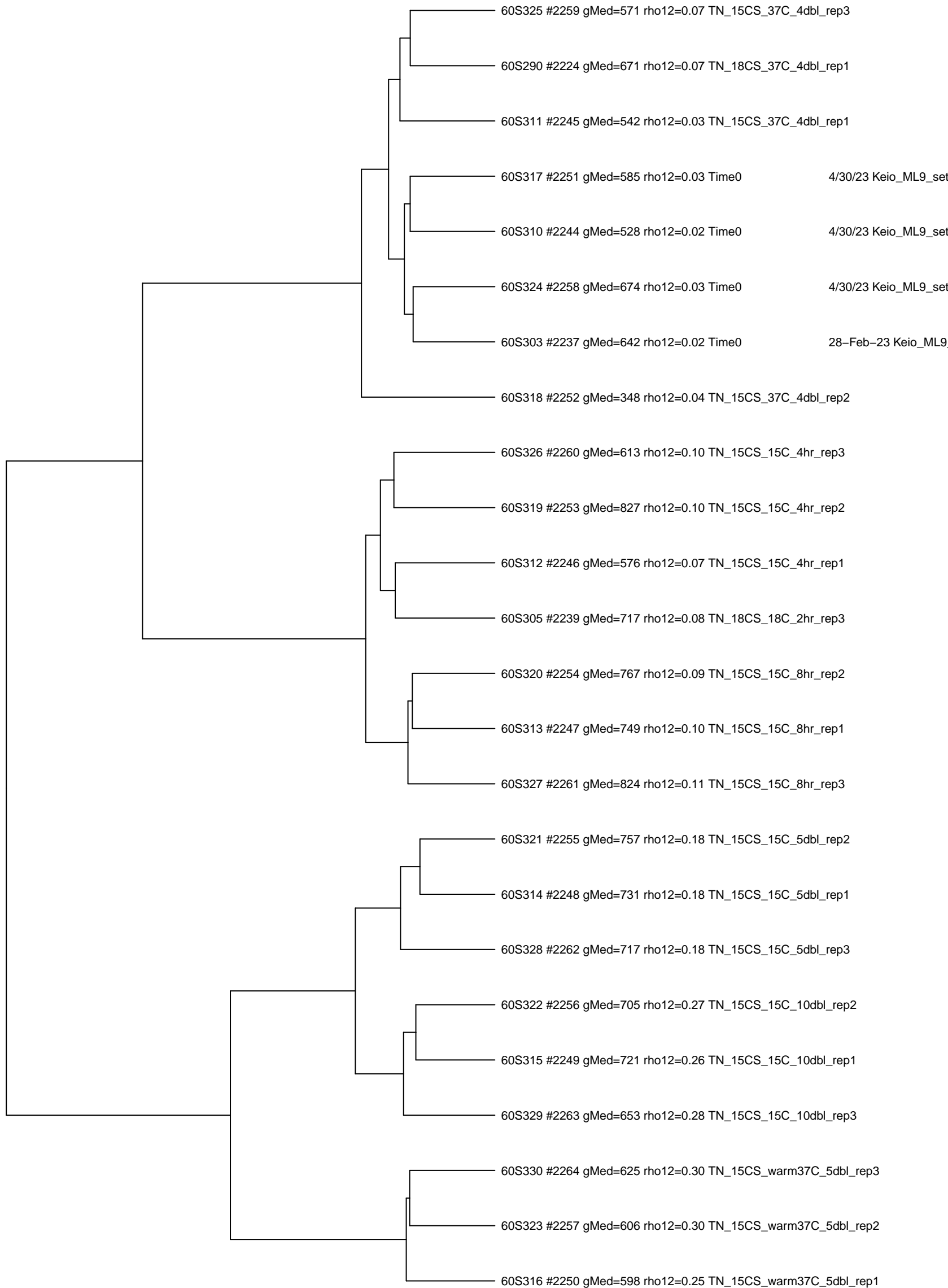
0.04 0.03 0.02 0.01 0.00

28-Feb-23 Keio_ML9_set60 and similar samples
(clustered by log-count)



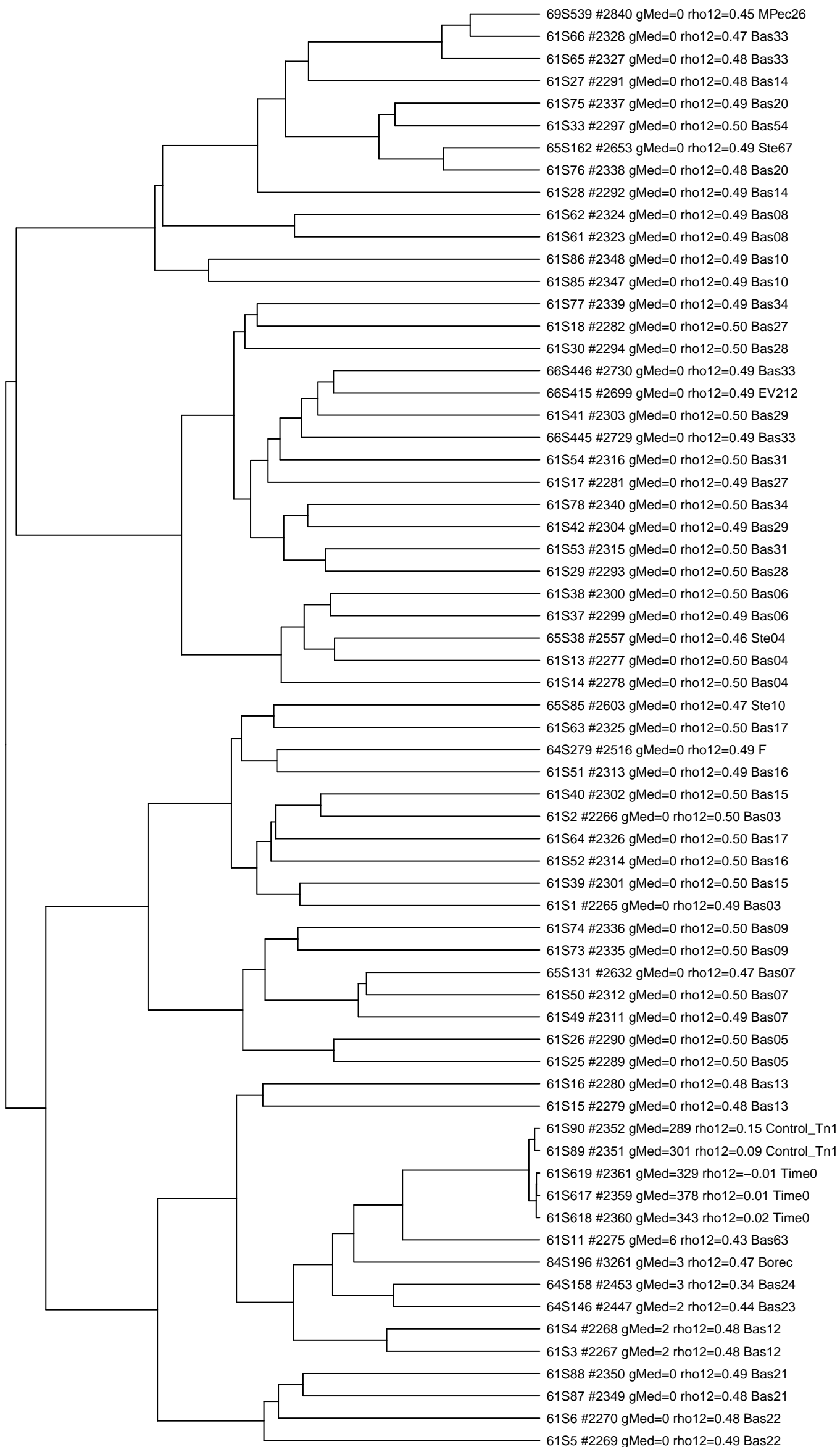
0.03 0.02 0.01 0.00

4/30/23 Keio_ML9_set60 and similar samples
(clustered by log-count)



0.04 0.03 0.02 0.01 0.00

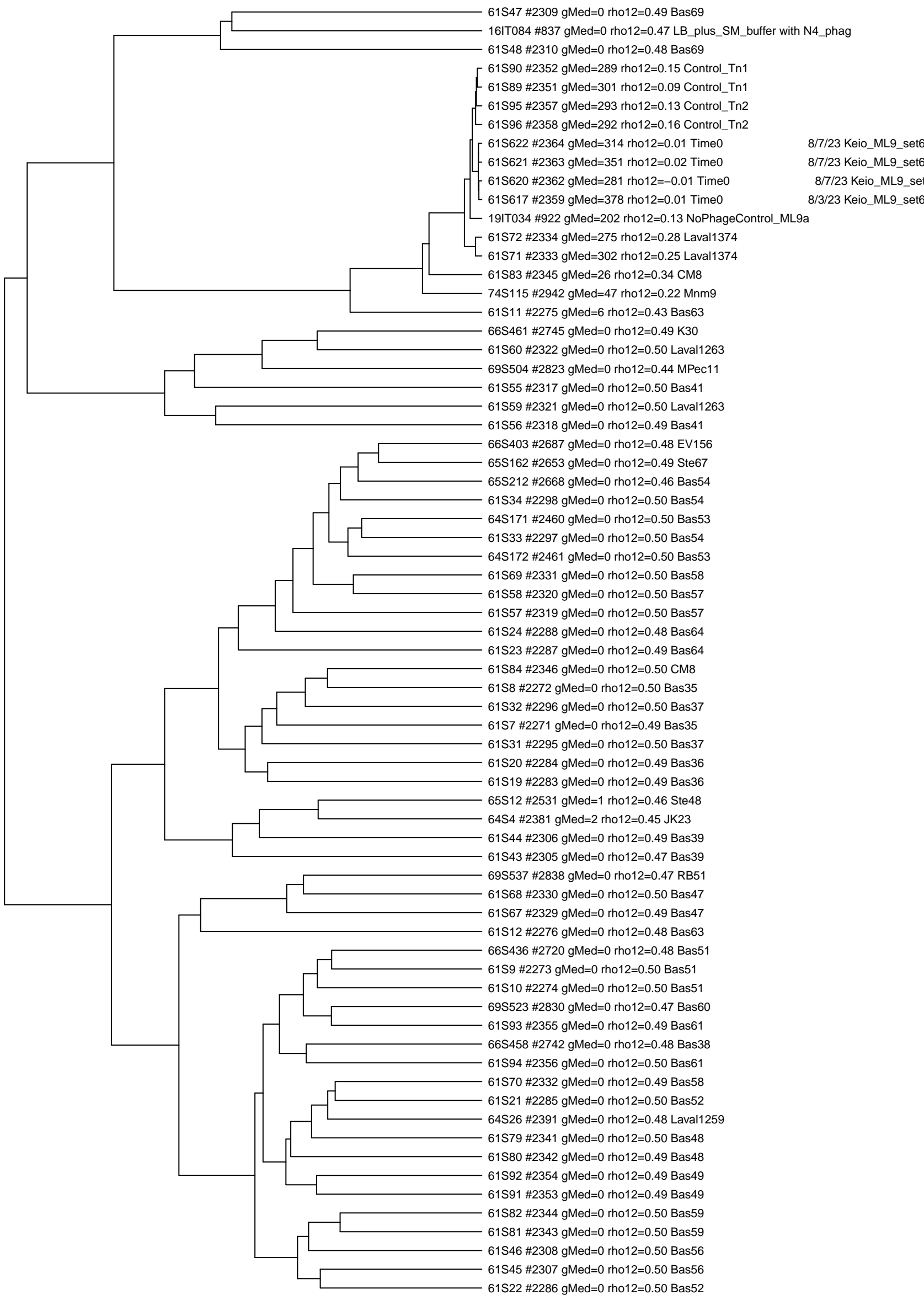
8/3/23 Keio_ML9_set61 and similar samples
(clustered by log-count)



8/3/23 Keio_ML9_set61
8/3/23 Keio_ML9_set61
8/3/23 Keio_ML9_set61

1.0 0.8 0.6 0.4 0.2 0.0

8/7/23 Keio_ML9_set61 and similar samples
(clustered by log-count)



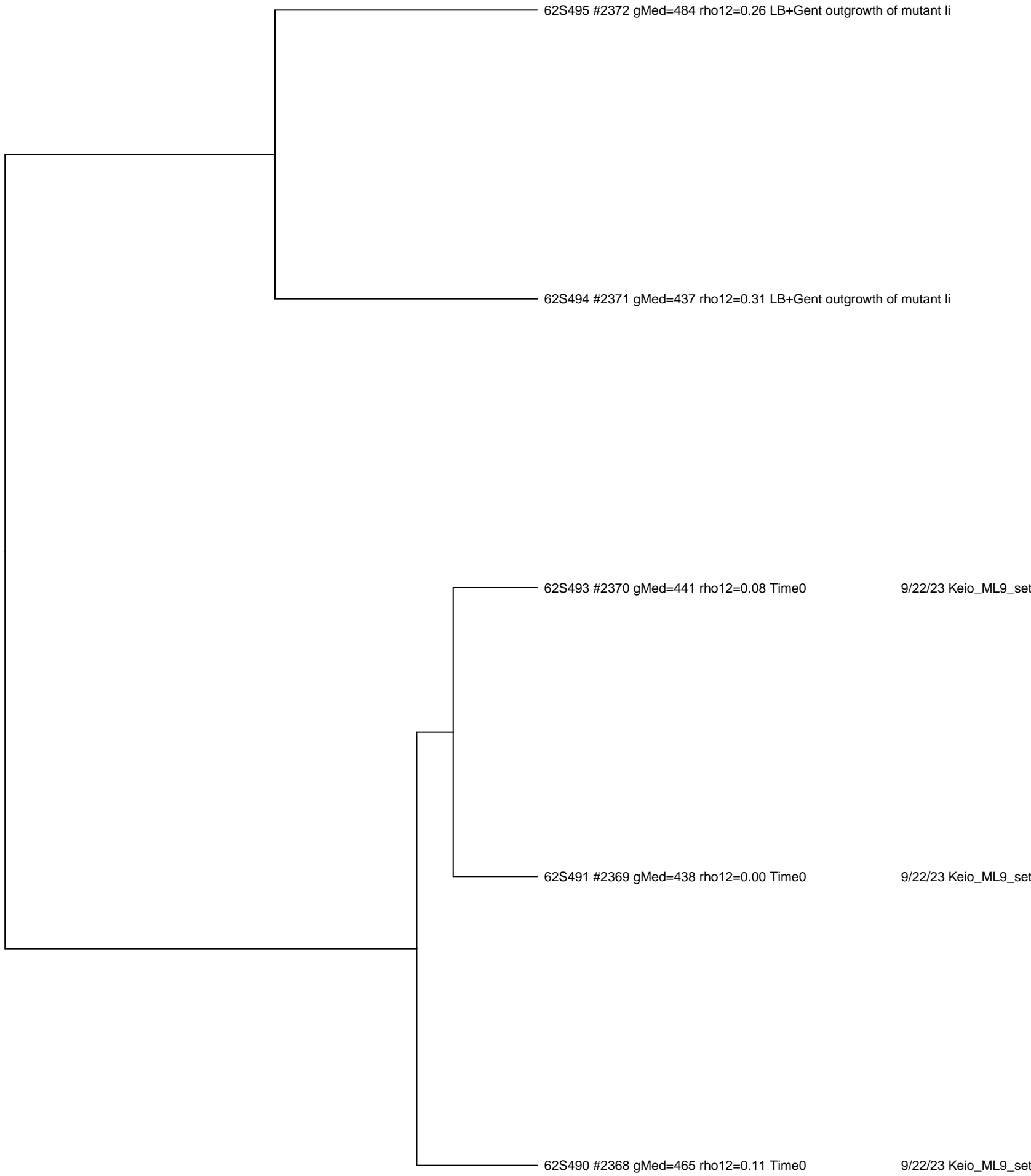
1.0 0.8 0.6 0.4 0.2 0.0

10/3/23 Keio_ML9_set62 and similar samples
(clustered by log-count)



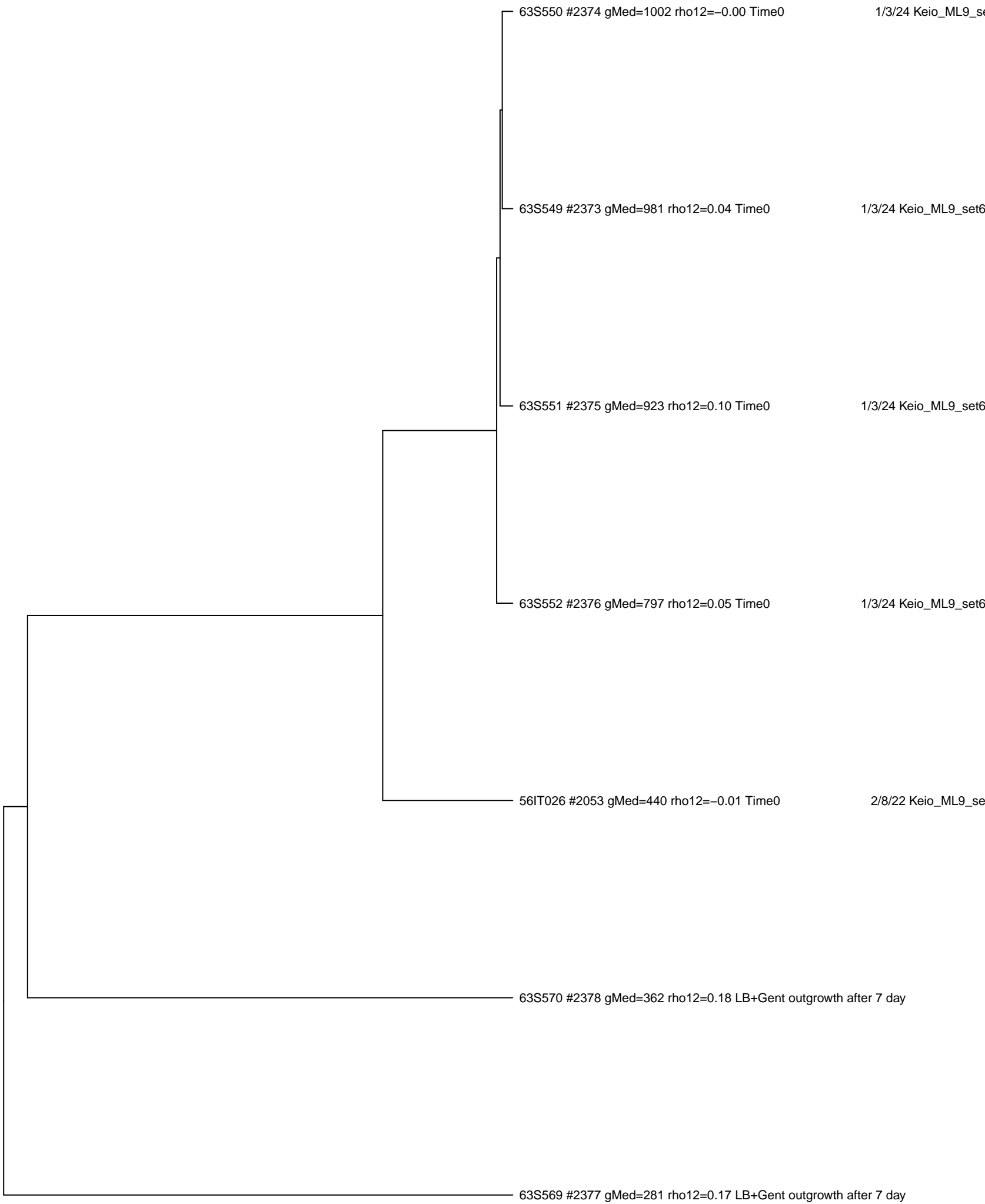
0.007 0.006 0.005 0.004 0.003 0.002 0.001 0.000

9/22/23 Keio_ML9_set62 and similar samples
(clustered by log-count)



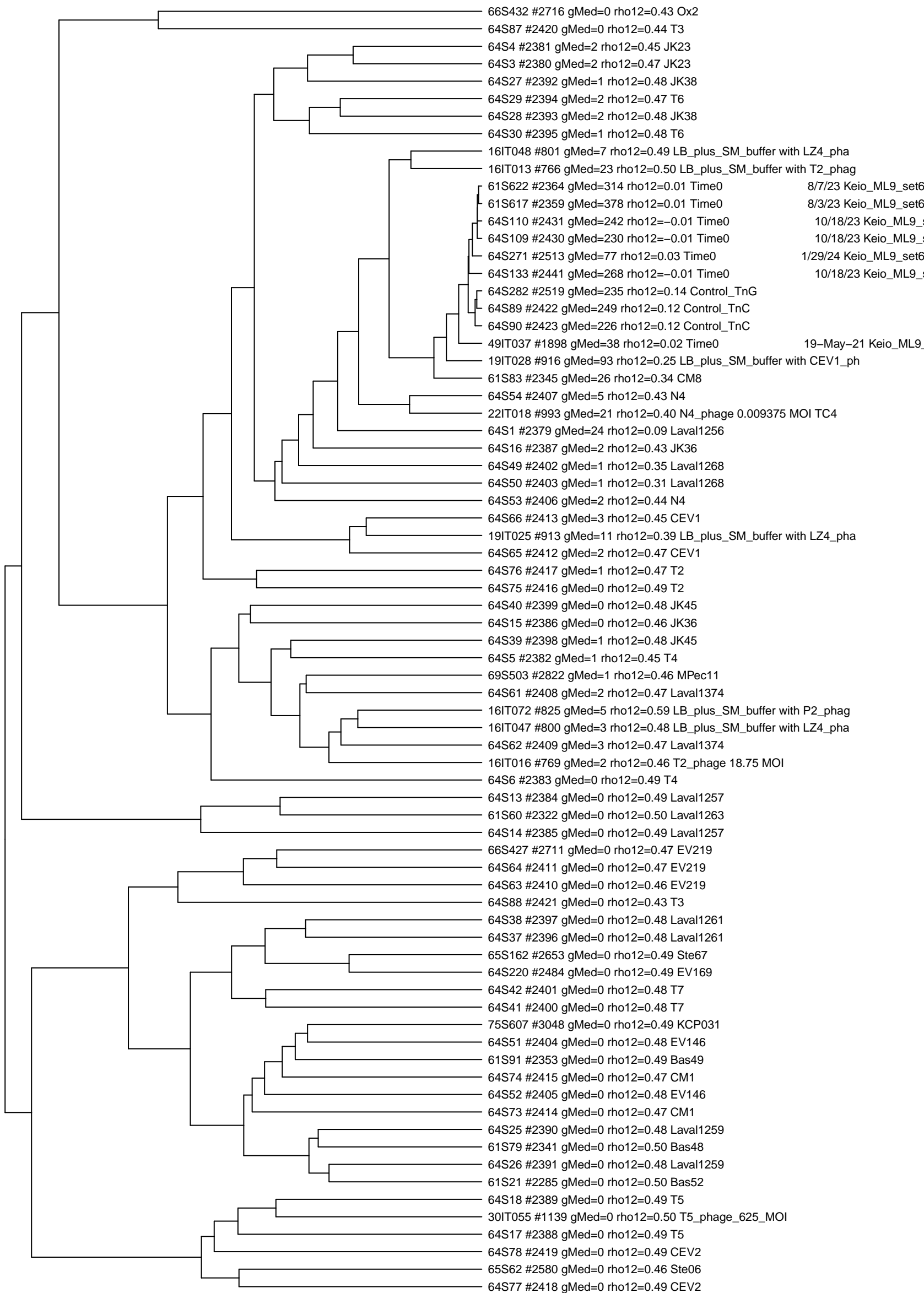
0.035 0.030 0.025 0.020 0.015 0.010 0.005 0.000

1/3/24 Keio_ML9_set63 and similar samples
(clustered by log-count)



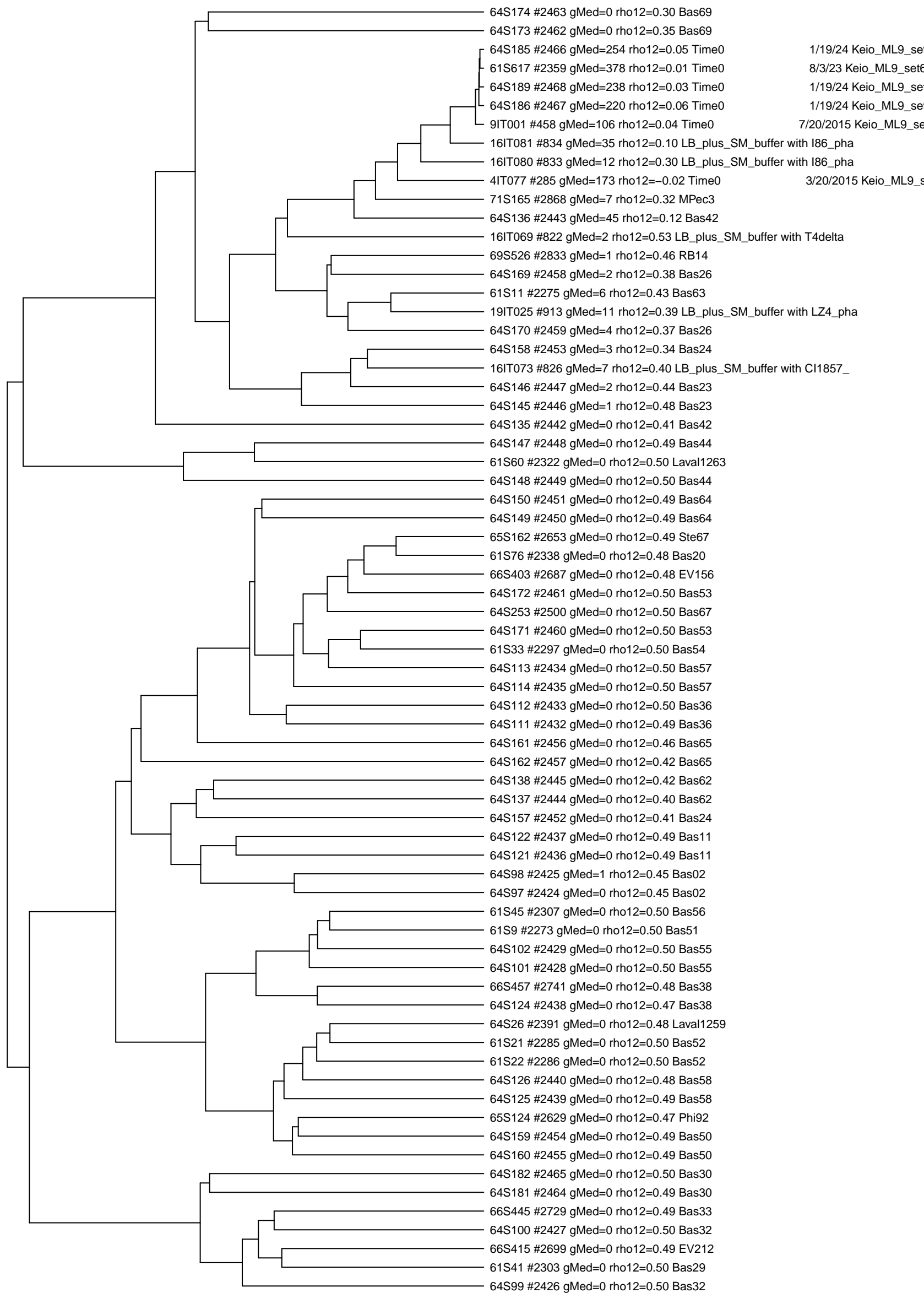
0.15 0.10 0.05 0.00

10/18/23 Keio_ML9_set64 and similar samples
(clustered by log-count)



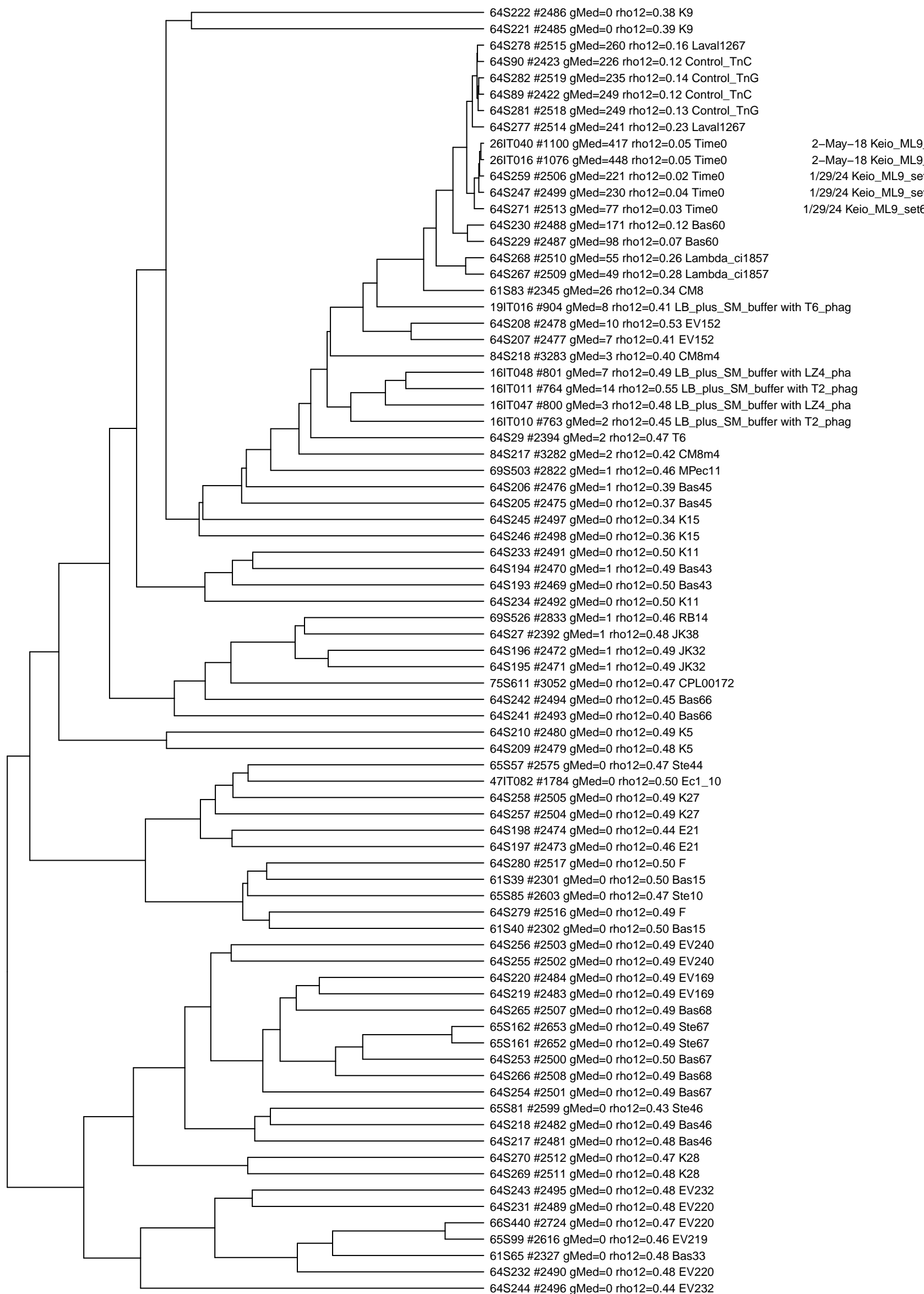
1.0 0.8 0.6 0.4 0.2 0.0

1/19/24 Keio_ML9_set64 and similar samples
(clustered by log-count)



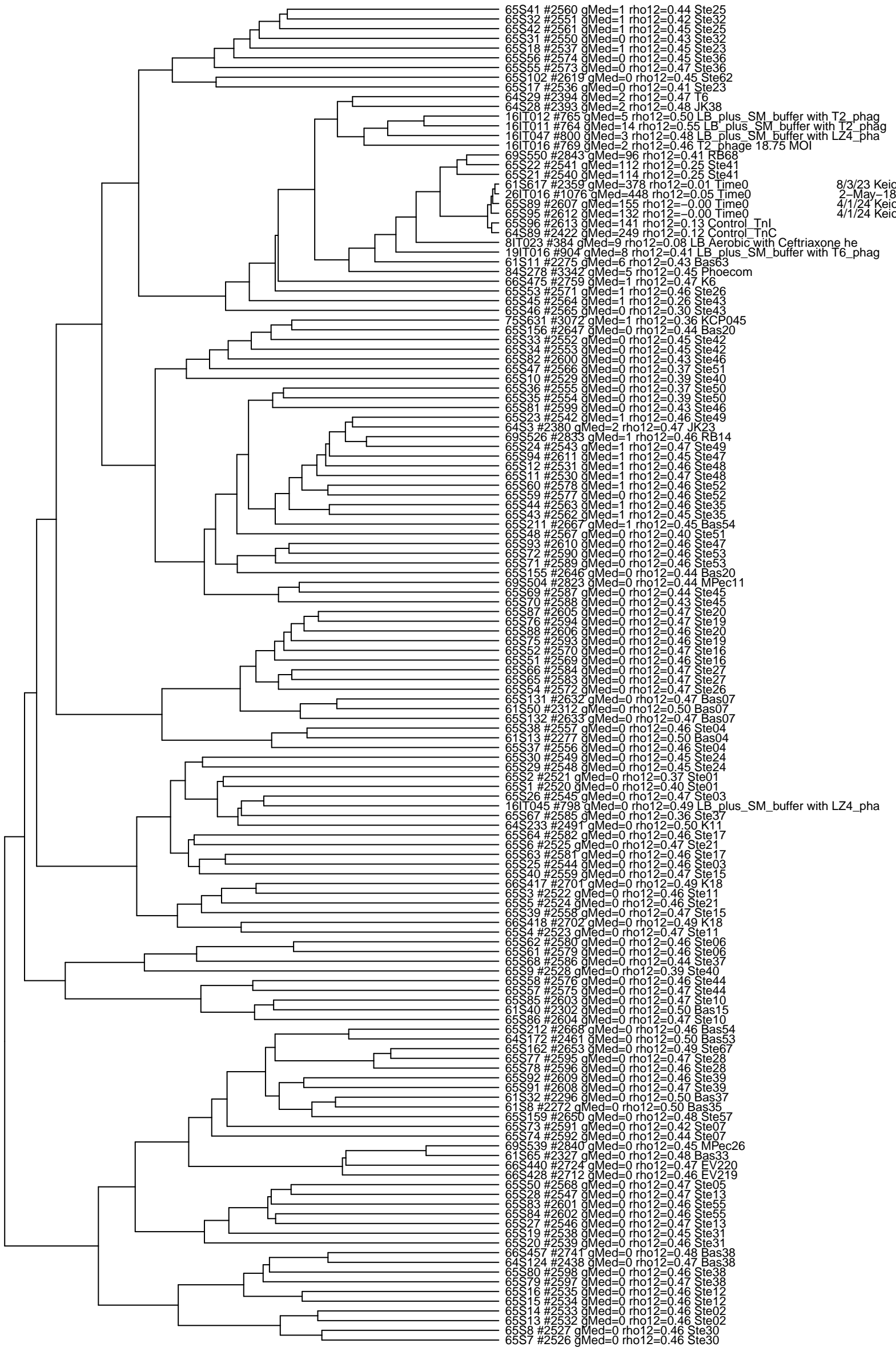
1.0 0.8 0.6 0.4 0.2 0.0

1/29/24 Keio_ML9_set64 and similar samples
(clustered by log-count)



1.0 0.8 0.6 0.4 0.2 0.0

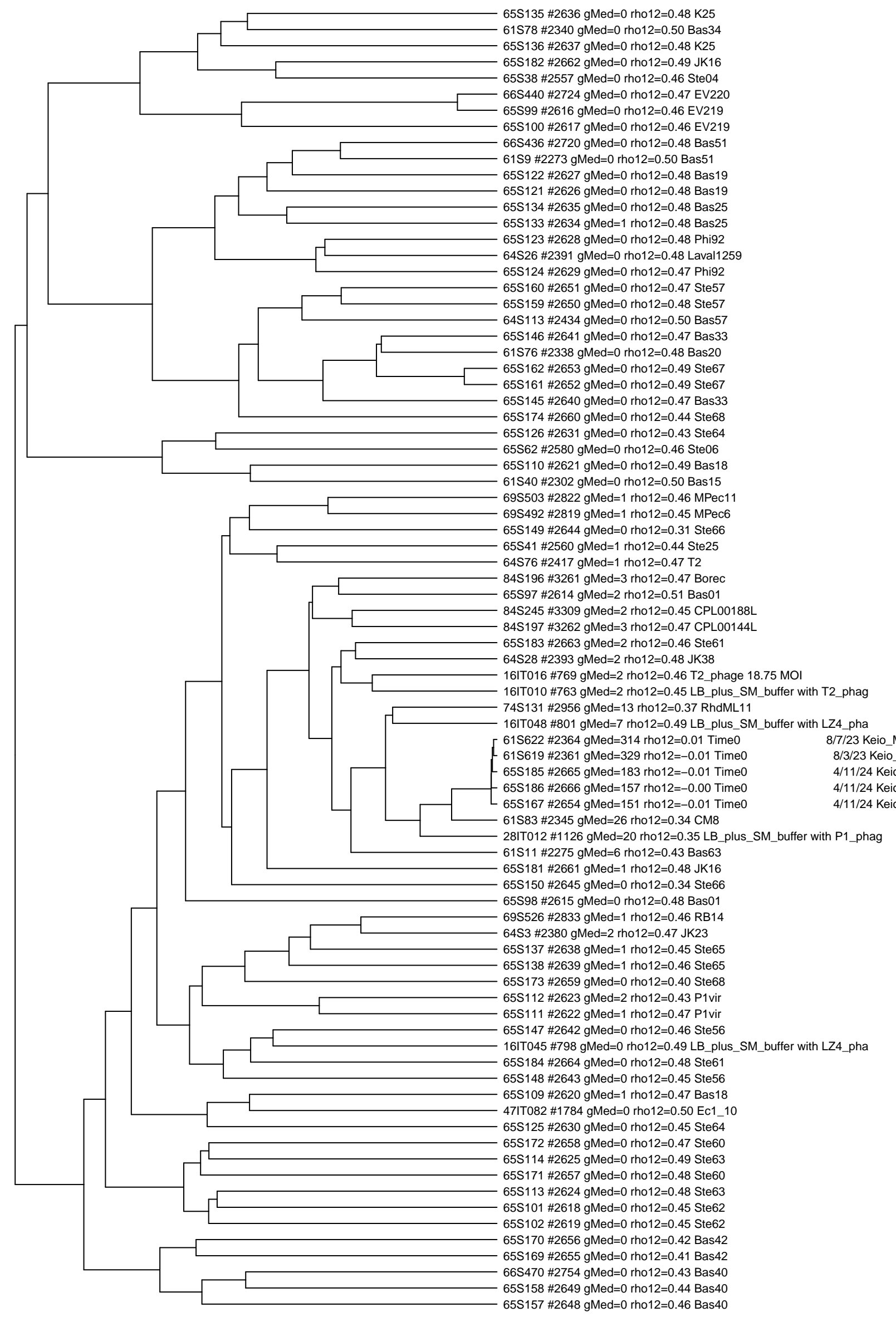
4/1/24 Keio_ML9_set65 and similar samples
(clustered by log-count)



8/3/23 Keio_ML9_set6
2-May-18 Keio_ML9
4/1/24 Keio_ML9_set6
4/1/24 Keio_ML9_set6

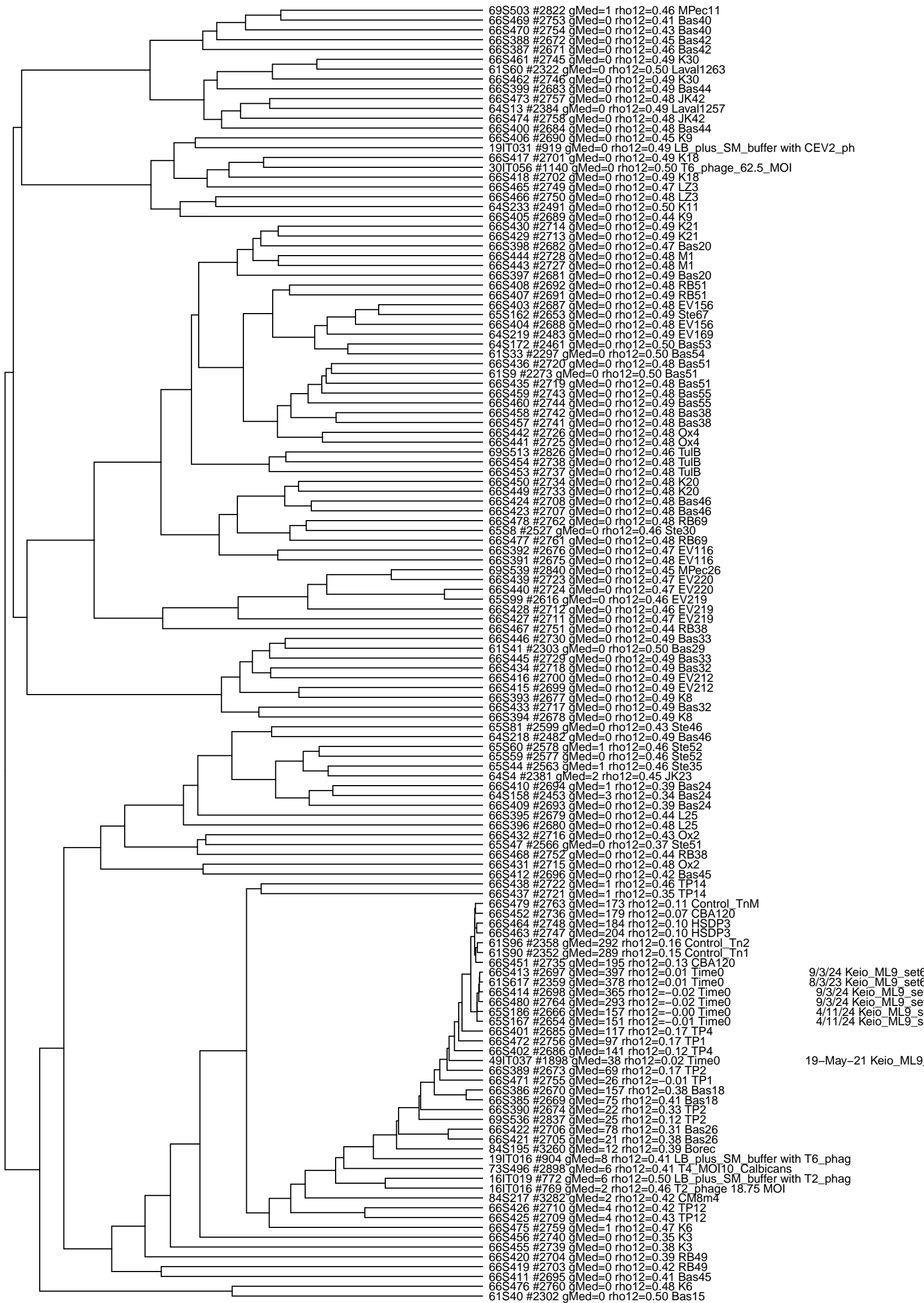
1.0 0.8 0.6 0.4 0.2 0.0

4/11/24 Keio_ML9_set65 and similar samples
(clustered by log-count)



1.0 0.8 0.6 0.4 0.2 0.0

9/3/24 Keio_ML9_set66 and similar samples
(clustered by log-count)

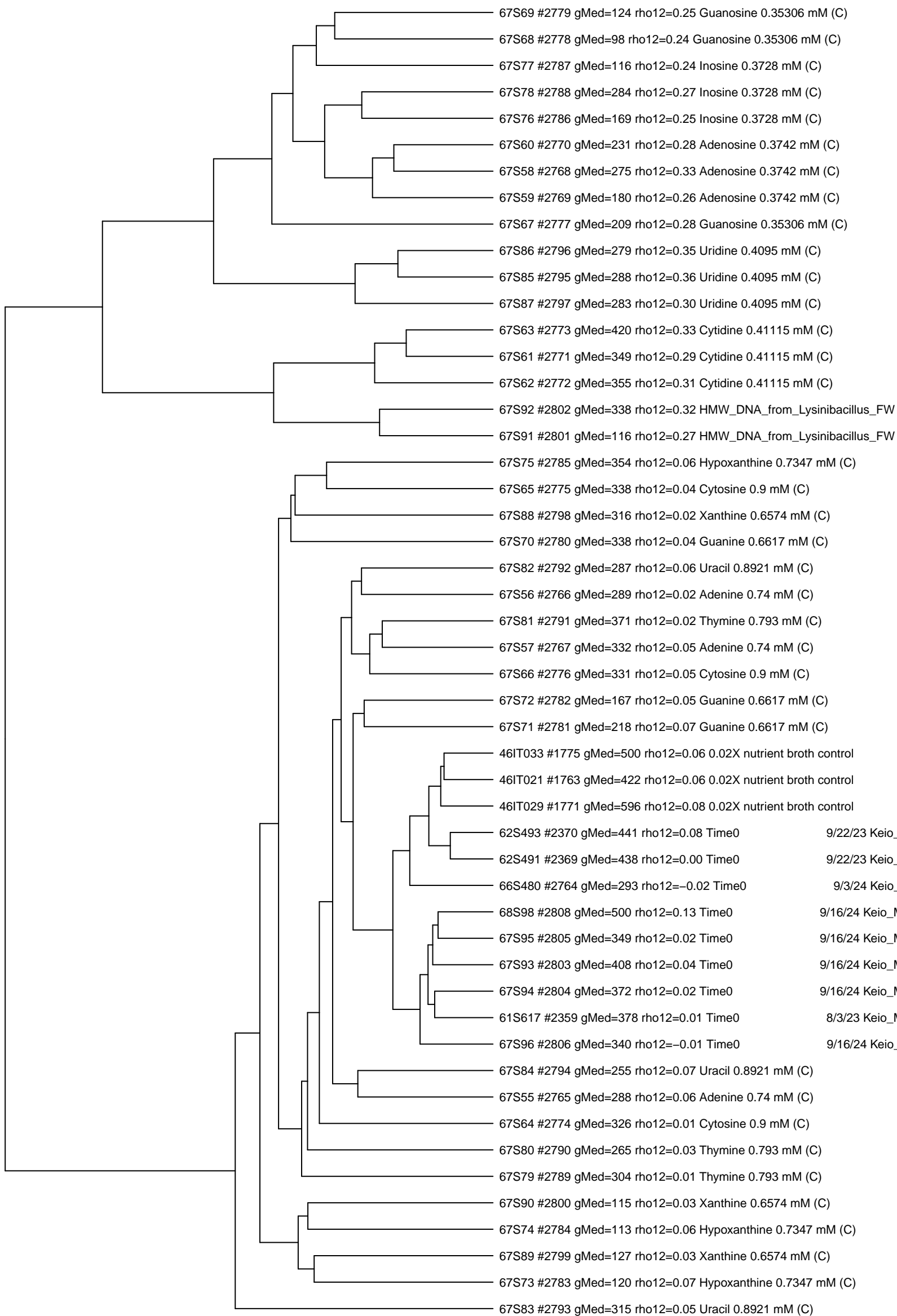


9/3/24 Keio_ML9_set6
8/3/23 Keio_ML9_set6
9/3/24 Keio_ML9_set
9/3/24 Keio_ML9_set
4/11/24 Keio_ML9_s
4/11/24 Keio_ML9_s

19-May-21 Keio_ML9

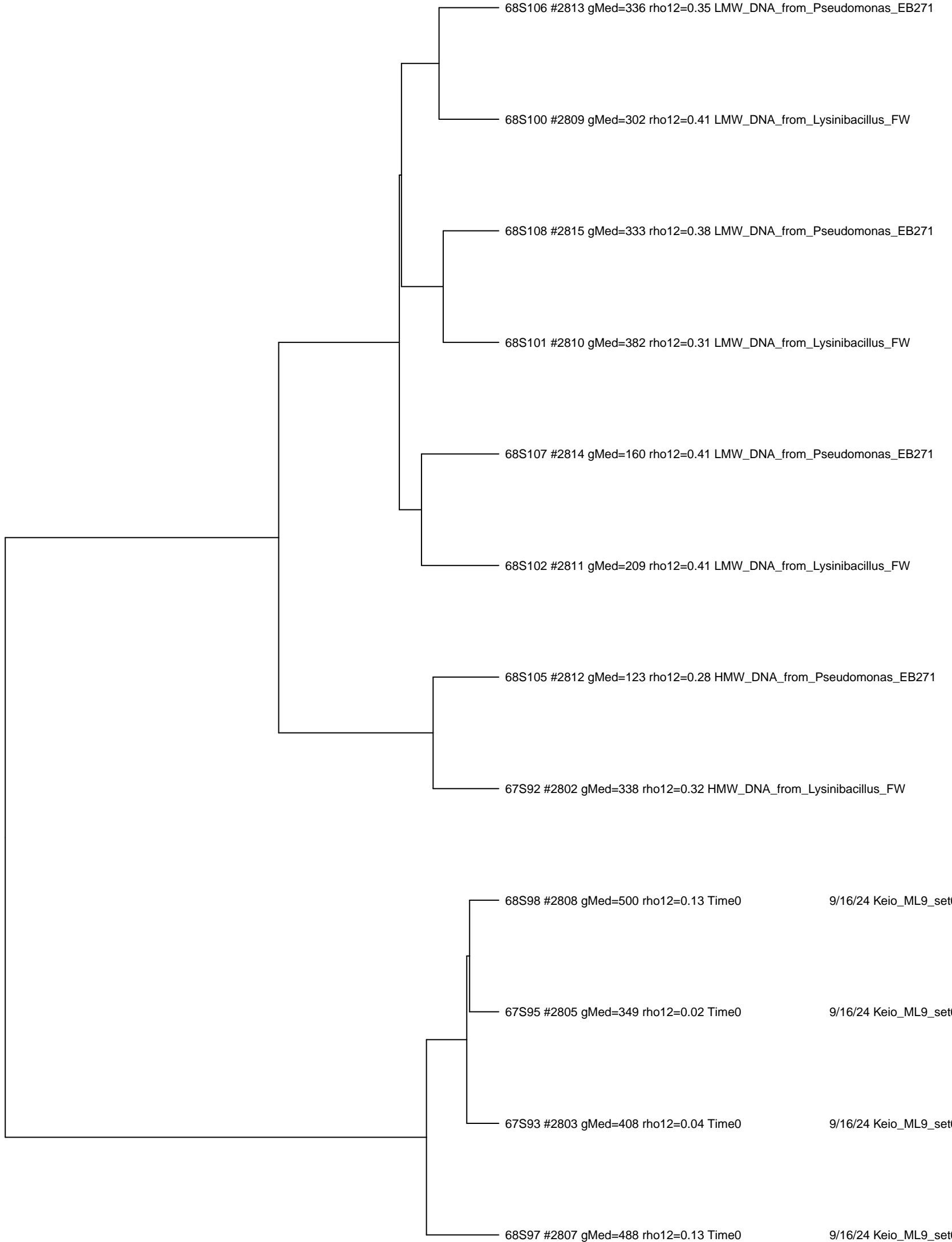
1.0 0.8 0.6 0.4 0.2 0.0

9/16/24 Keio_ML9_set67 and similar samples
(clustered by log-count)



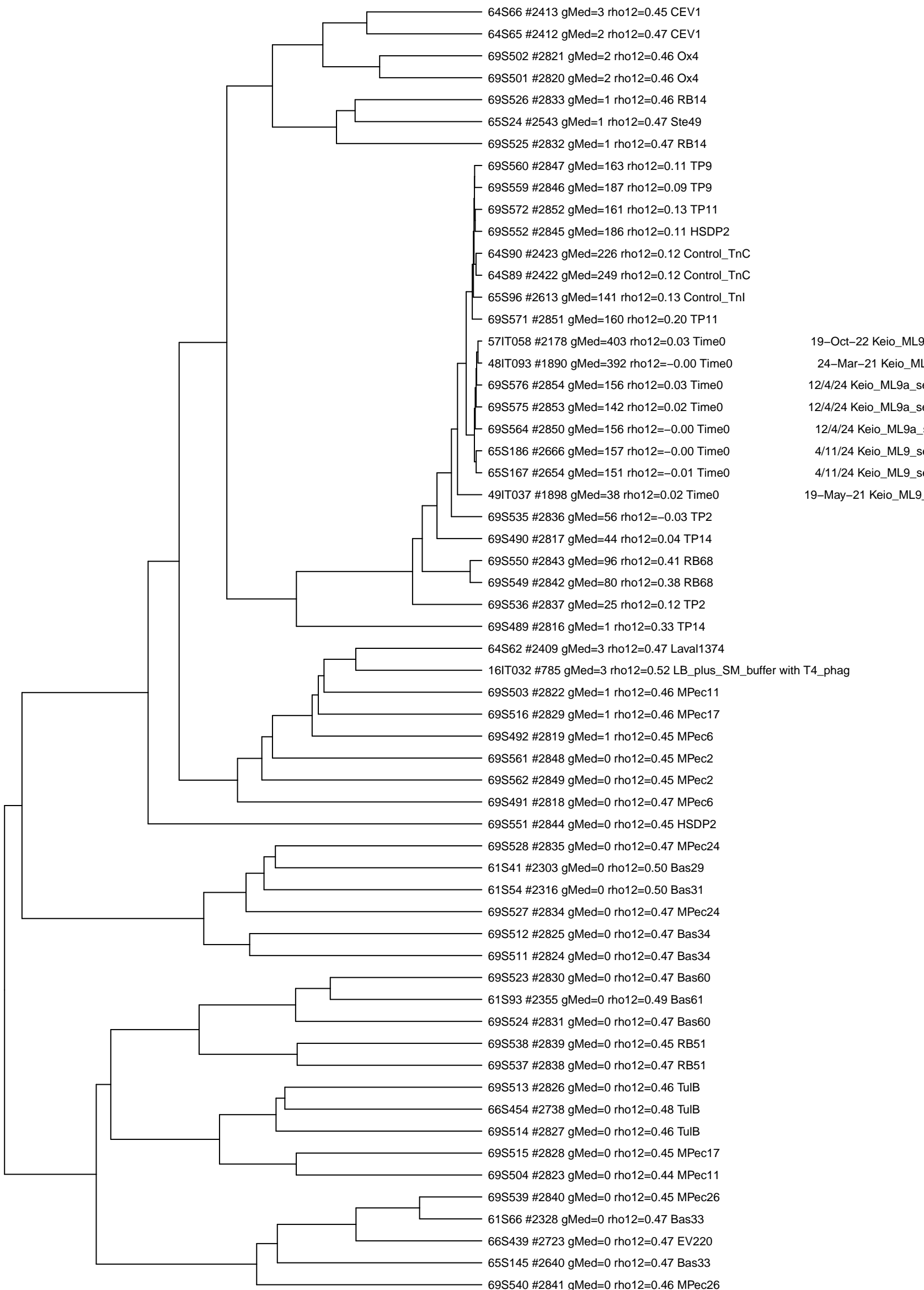
0.06 0.05 0.04 0.03 0.02 0.01 0.00

9/16/24 Keio_ML9_set68 and similar samples
(clustered by log-count)



0.12 0.10 0.08 0.06 0.04 0.02 0.00

12/4/24 Keio_ML9a_set69 and similar samples
(clustered by log-count)



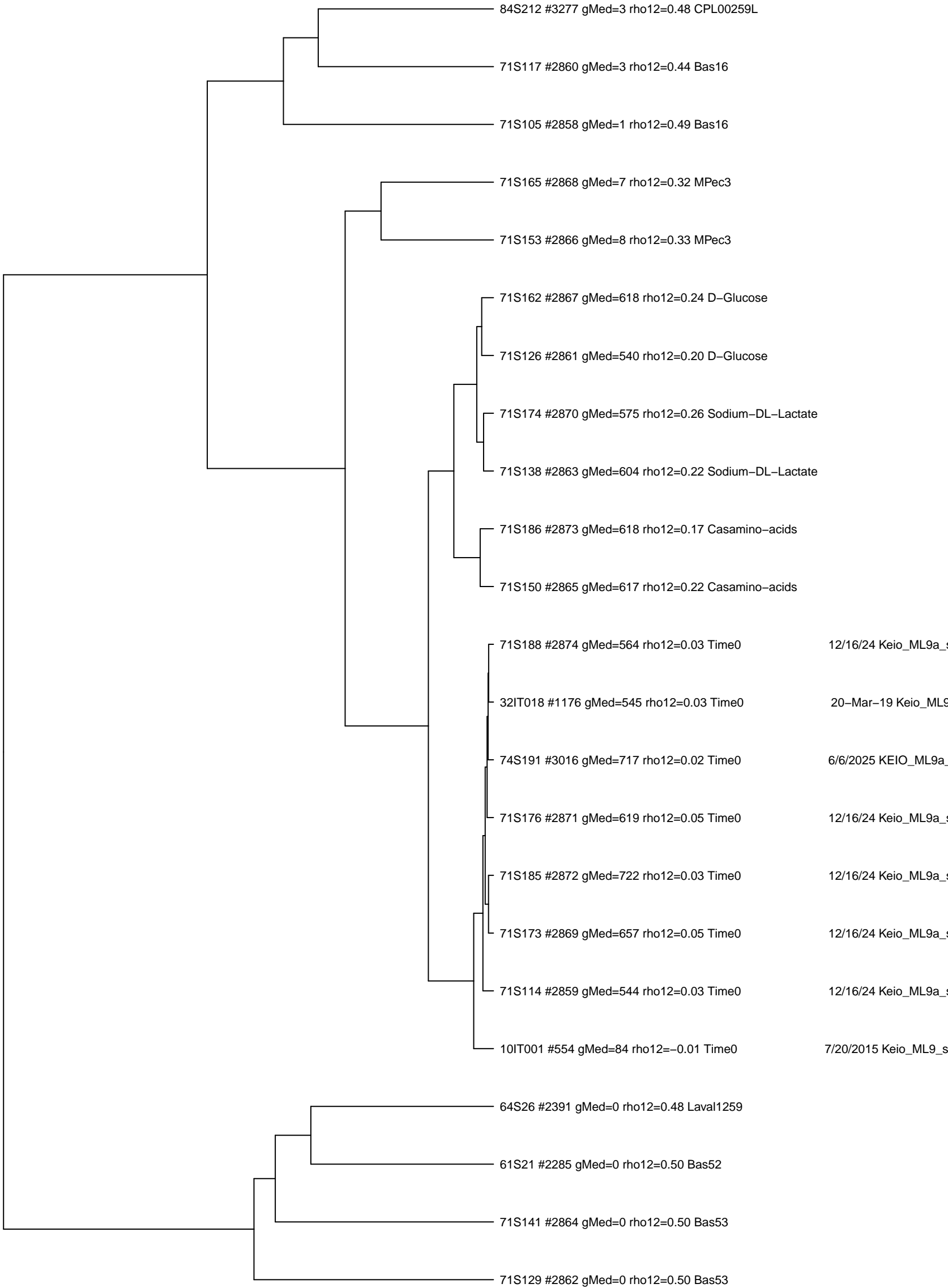
19-Oct-22 Keio_ML9
 24-Mar-21 Keio_ML9
 12/4/24 Keio_ML9a_set69
 12/4/24 Keio_ML9a_set69
 12/4/24 Keio_ML9a_set69
 4/11/24 Keio_ML9a_set69
 4/11/24 Keio_ML9a_set69
 19-May-21 Keio_ML9

1.0 0.8 0.6 0.4 0.2 0.0

09/19/2024 Keio_ML9a_set70 and similar samples
(clustered by log-count)

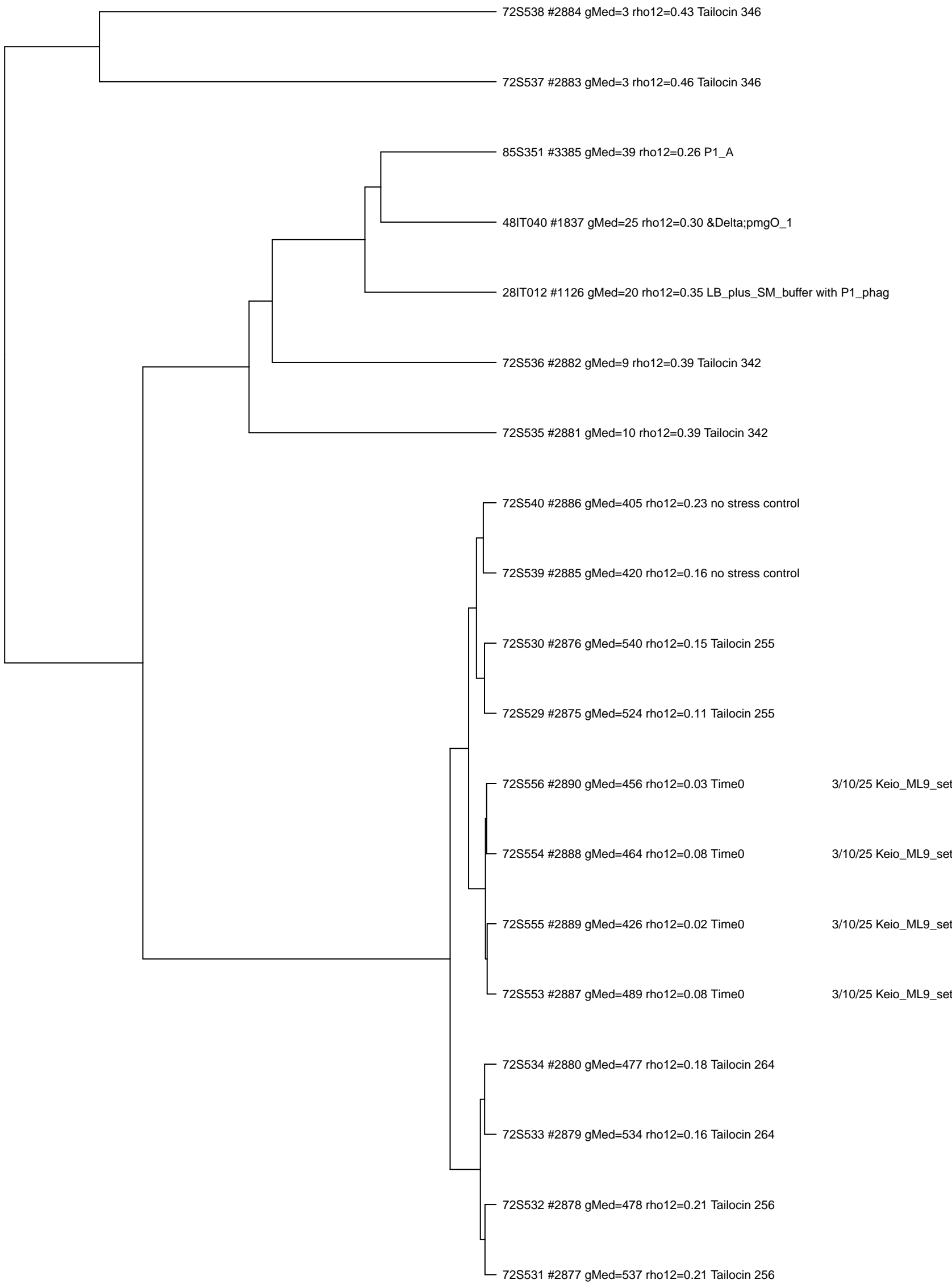


12/16/24 Keio_ML9a_set71 and similar samples
(clustered by log-count)



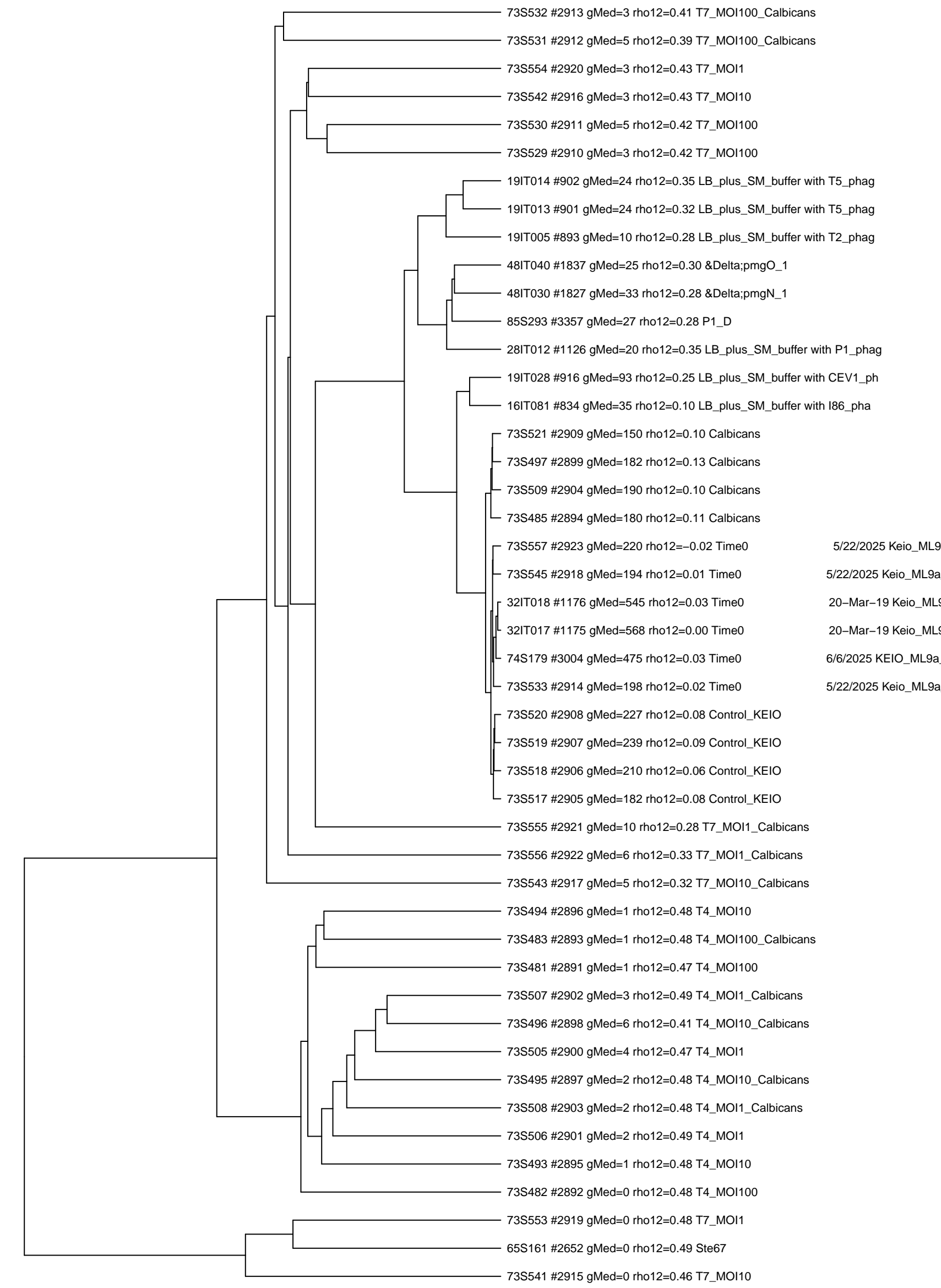
0.8 0.6 0.4 0.2 0.0

3/10/25 Keio_ML9_set72 and similar samples
(clustered by log-count)



0.4 0.3 0.2 0.1 0.0

5/22/2025 Keio_ML9a_set73 and similar samples
(clustered by log-count)



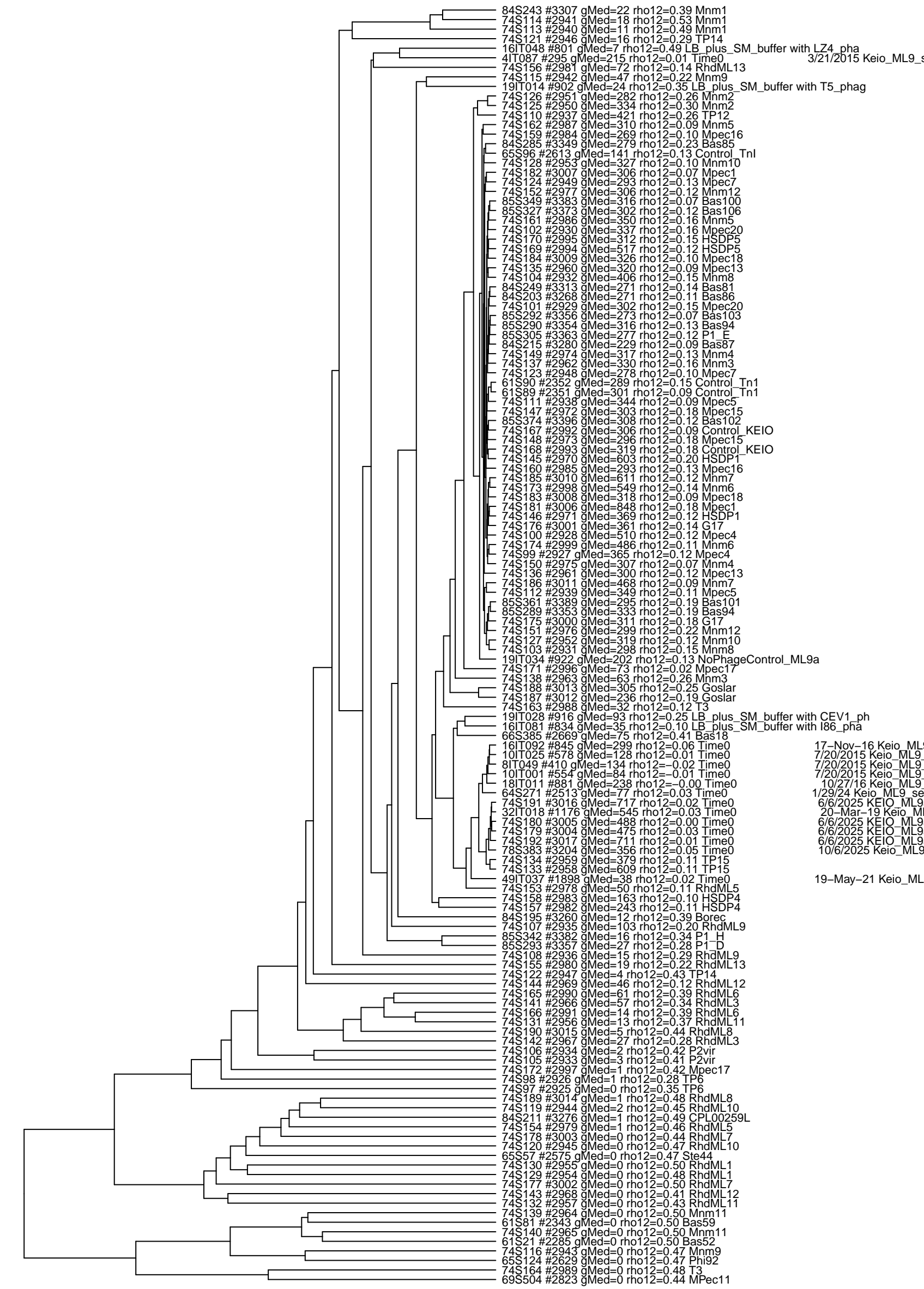
1.0 0.8 0.6 0.4 0.2 0.0

6/1/25 Keio_ML9a_set73 and similar samples
(clustered by log-count)



0.015 0.010 0.005 0.000

6/6/2025 KEIO_ML9a set74 and similar samples
(clustered by log-count)

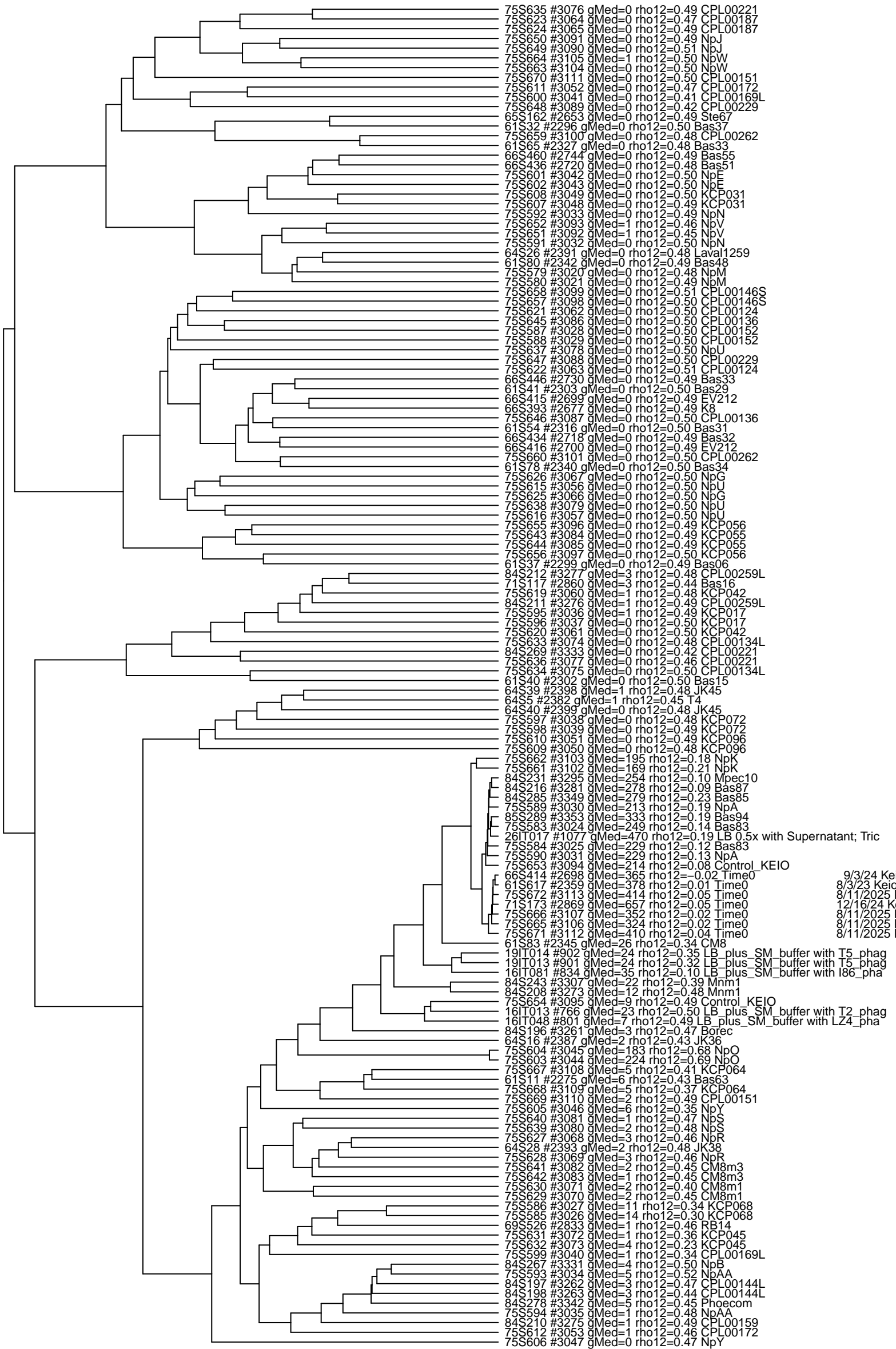


84S243 #3307 gMed=22 rho12=0.39 Mnm1
74S114 #2941 gMed=18 rho12=0.53 Mnm1
74S113 #2940 gMed=11 rho12=0.49 Mnm1
74S121 #2946 gMed=16 rho12=0.29 TP14
16IT048 #801 gMed=7 rho12=0.49 LB_plus_SM_buffer with LZ4_pha
41T087 #295 gMed=215 rho12=0.01 Time0
74S156 #2981 gMed=72 rho12=0.14 RhdML13
74S115 #2942 gMed=47 rho12=0.22 Mnm9
19IT014 #902 gMed=24 rho12=0.35 LB_plus_SM_buffer with T5_phag
74S126 #2951 gMed=282 rho12=0.26 Mnm2
74S125 #2950 gMed=334 rho12=0.30 Mnm2
74S110 #2937 gMed=421 rho12=0.26 TP12
74S162 #2987 gMed=310 rho12=0.09 Mnm5
74S159 #2984 gMed=269 rho12=0.10 Mpec16
84S285 #3349 gMed=279 rho12=0.23 Bas85
65S96 #2613 gMed=141 rho12=0.13 Control_Tn1
74S128 #2953 gMed=327 rho12=0.10 Mnm10
74S182 #3007 gMed=306 rho12=0.07 Mpec1
74S124 #2949 gMed=293 rho12=0.13 Mpec7
74S152 #2977 gMed=306 rho12=0.12 Mnm12
85S349 #3383 gMed=316 rho12=0.07 Bas100
85S327 #3373 gMed=302 rho12=0.12 Bas106
74S161 #2986 gMed=350 rho12=0.16 Mnm5
74S102 #2930 gMed=337 rho12=0.16 Mpec20
74S170 #2995 gMed=312 rho12=0.15 HSDP5
74S169 #2994 gMed=517 rho12=0.12 HSDP5
74S184 #3009 gMed=326 rho12=0.10 Mpec18
74S135 #2960 gMed=320 rho12=0.09 Mpec13
74S104 #2932 gMed=406 rho12=0.15 Mnm8
84S249 #3313 gMed=271 rho12=0.14 Bas81
84S203 #3268 gMed=271 rho12=0.11 Bas86
74S101 #2929 gMed=302 rho12=0.15 Mpec20
85S292 #3356 gMed=273 rho12=0.07 Bas103
85S290 #3354 gMed=316 rho12=0.13 Bas94
85S305 #3363 gMed=277 rho12=0.12 P1_E
84S215 #3280 gMed=229 rho12=0.09 Bas87
74S149 #2974 gMed=317 rho12=0.13 Mnm4
74S137 #2962 gMed=330 rho12=0.16 Mnm3
74S123 #2948 gMed=278 rho12=0.10 Mpec7
61S90 #2352 gMed=289 rho12=0.15 Control_Tn1
61S89 #2351 gMed=301 rho12=0.09 Control_Tn1
74S111 #2938 gMed=344 rho12=0.09 Mpec5
74S147 #2972 gMed=303 rho12=0.18 Mpec15
85S374 #3396 gMed=308 rho12=0.12 Bas102
74S167 #2992 gMed=306 rho12=0.09 Control_KEIO
74S148 #2973 gMed=296 rho12=0.18 Mpec15
74S168 #2993 gMed=319 rho12=0.18 Control_KEIO
74S145 #2970 gMed=603 rho12=0.20 HSDP1
74S160 #2985 gMed=293 rho12=0.13 Mpec16
74S185 #3010 gMed=611 rho12=0.12 Mnm7
74S173 #2998 gMed=549 rho12=0.14 Mnm6
74S183 #3008 gMed=318 rho12=0.09 Mpec18
74S181 #3006 gMed=848 rho12=0.18 Mpec1
74S146 #2971 gMed=369 rho12=0.12 HSDP1
74S176 #3001 gMed=361 rho12=0.14 G17
74S100 #2928 gMed=510 rho12=0.12 Mpec4
74S174 #2999 gMed=486 rho12=0.11 Mnm6
74S99 #2927 gMed=365 rho12=0.12 Mpec4
74S150 #2975 gMed=307 rho12=0.07 Mnm4
74S136 #2961 gMed=300 rho12=0.12 Mpec13
74S186 #3011 gMed=468 rho12=0.09 Mnm7
74S112 #2939 gMed=349 rho12=0.11 Mpec5
85S361 #3389 gMed=295 rho12=0.19 Bas101
85S289 #3353 gMed=333 rho12=0.19 Bas94
74S175 #3000 gMed=311 rho12=0.18 G17
74S151 #2976 gMed=299 rho12=0.22 Mnm12
74S127 #2952 gMed=319 rho12=0.12 Mnm10
74S103 #2931 gMed=298 rho12=0.15 Mnm8
19IT034 #922 gMed=202 rho12=0.13 NoPhageControl_ML9a
74S171 #2996 gMed=73 rho12=0.02 Mpec17
74S138 #2963 gMed=63 rho12=0.26 Mnm3
74S188 #3013 gMed=305 rho12=0.25 Goslar
74S187 #3012 gMed=236 rho12=0.19 Goslar
74S163 #2988 gMed=32 rho12=0.12 T3
19IT028 #916 gMed=93 rho12=0.25 LB_plus_SM_buffer with CEV1_ph
16IT081 #834 gMed=35 rho12=0.10 LB_plus_SM_buffer with 186_pha
66S385 #2669 gMed=75 rho12=0.41 Bas18
16IT092 #845 gMed=299 rho12=0.06 Time0
10IT025 #578 gMed=128 rho12=0.01 Time0
8IT049 #410 gMed=134 rho12=-0.02 Time0
10IT001 #554 gMed=84 rho12=-0.01 Time0
18IT011 #881 gMed=238 rho12=-0.00 Time0
64S271 #2513 gMed=77 rho12=0.03 Time0
74S191 #3016 gMed=717 rho12=0.02 Time0
32IT018 #1176 gMed=545 rho12=0.03 Time0
74S180 #3005 gMed=488 rho12=0.00 Time0
74S179 #3004 gMed=475 rho12=0.03 Time0
74S192 #3017 gMed=711 rho12=0.01 Time0
78S383 #3204 gMed=356 rho12=0.05 Time0
74S134 #2959 gMed=379 rho12=0.11 TP15
74S133 #2958 gMed=609 rho12=0.11 TP15
49IT037 #1898 gMed=38 rho12=0.02 Time0
74S153 #2978 gMed=50 rho12=0.11 RhdML5
74S138 #2983 gMed=163 rho12=0.10 HSDP4
74S157 #2982 gMed=243 rho12=0.11 HSDP4
84S195 #3260 gMed=12 rho12=0.39 Borec
74S107 #2935 gMed=103 rho12=0.20 RhdML9
85S342 #3382 gMed=16 rho12=0.34 P1_H
85S293 #3357 gMed=27 rho12=0.28 P1_D
74S108 #2936 gMed=15 rho12=0.29 RhdML9
74S155 #2980 gMed=19 rho12=0.22 RhdML13
74S122 #2947 gMed=4 rho12=0.43 TP14
74S144 #2969 gMed=46 rho12=0.12 RhdML12
74S165 #2990 gMed=61 rho12=0.39 RhdML6
74S141 #2966 gMed=57 rho12=0.34 RhdML3
74S166 #2991 gMed=14 rho12=0.39 RhdML6
74S131 #2956 gMed=13 rho12=0.37 RhdML11
74S190 #3015 gMed=5 rho12=0.44 RhdML8
74S142 #2967 gMed=27 rho12=0.28 RhdML3
74S106 #2934 gMed=2 rho12=0.42 P2vir
74S105 #2933 gMed=3 rho12=0.41 P2vir
74S172 #2997 gMed=1 rho12=0.42 Mpec17
74S98 #2926 gMed=1 rho12=0.28 TP6
74S97 #2925 gMed=0 rho12=0.35 TP6
74S189 #3014 gMed=1 rho12=0.48 RhdML8
74S119 #2944 gMed=2 rho12=0.45 RhdML10
84S211 #3276 gMed=1 rho12=0.49 CPL00259L
74S154 #2979 gMed=1 rho12=0.46 RhdML5
74S178 #3003 gMed=0 rho12=0.44 RhdML7
74S120 #2945 gMed=0 rho12=0.47 RhdML10
65S57 #2575 gMed=0 rho12=0.47 Ste44
74S130 #2955 gMed=0 rho12=0.50 RhdML1
74S129 #2954 gMed=0 rho12=0.48 RhdML1
74S177 #3002 gMed=0 rho12=0.50 RhdML7
74S143 #2968 gMed=0 rho12=0.41 RhdML12
74S132 #2957 gMed=0 rho12=0.43 RhdML11
74S139 #2964 gMed=0 rho12=0.50 Mnm11
61S81 #2343 gMed=0 rho12=0.50 Bas59
74S140 #2965 gMed=0 rho12=0.50 Mnm11
61S21 #2285 gMed=0 rho12=0.50 Bas52
74S116 #2943 gMed=0 rho12=0.47 Mnm9
65S124 #2629 gMed=0 rho12=0.47 Phi92
74S164 #2989 gMed=0 rho12=0.48 T3
69S504 #2823 gMed=0 rho12=0.44 Mpec11

17-Nov-16 Keio_ML9
7/20/2015 Keio_ML9_s
7/20/2015 Keio_ML9_s
7/20/2015 Keio_ML9_s
10/27/16 Keio_ML9_s
1/29/24 Keio_ML9_set6
6/6/2025 KEIO_ML9a
20-Mar-19 Keio_ML9
6/6/2025 KEIO_ML9a
6/6/2025 KEIO_ML9a
10/6/2025 Keio_ML9_s
19-May-21 Keio_ML9

1.0 0.8 0.6 0.4 0.2 0.0

8/11/2025 Keio_ML9_set75 and similar samples
(clustered by log-count)

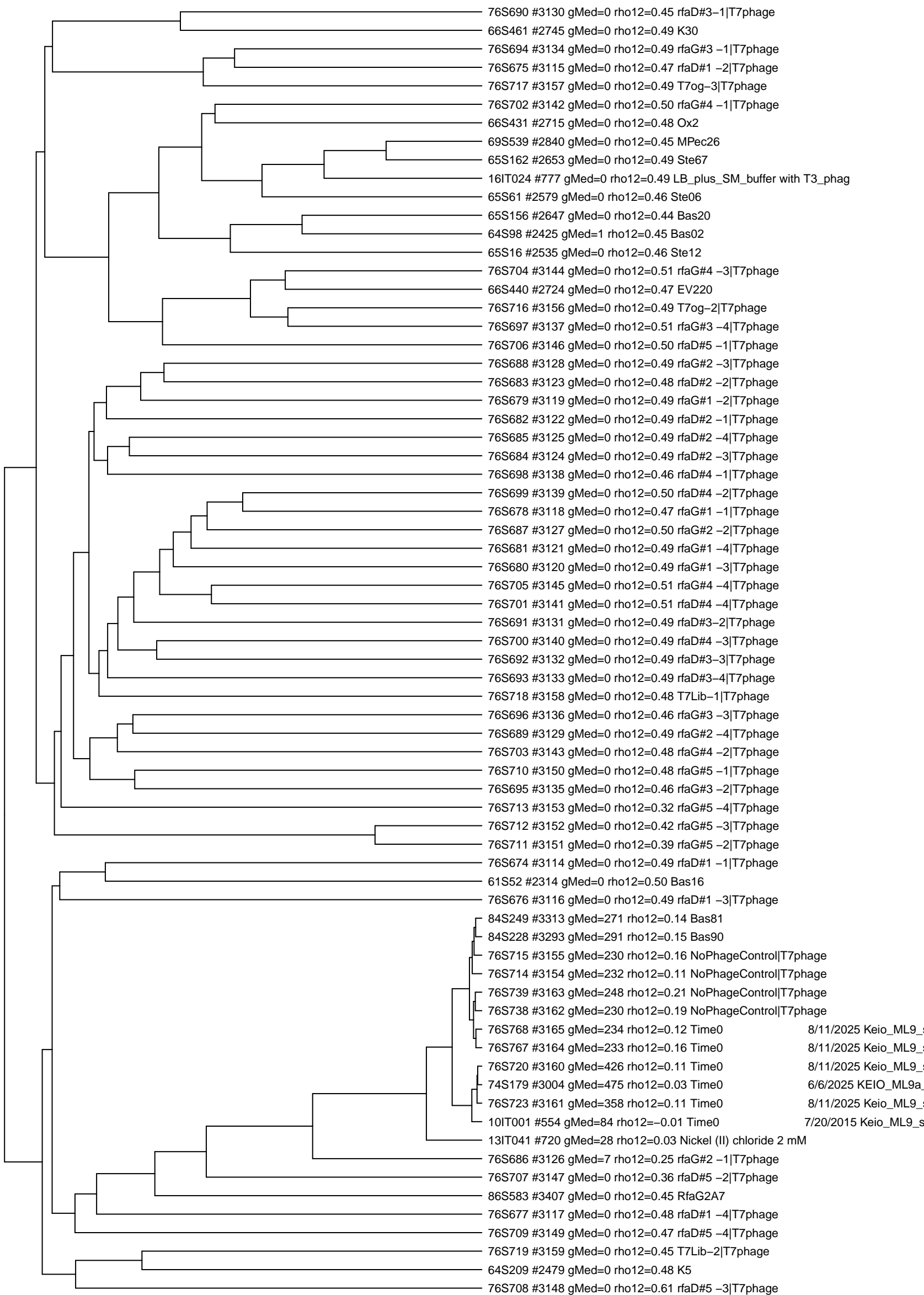


75S635 #3076 gMed=0 rho12=0.49 CPL00221
75S623 #3064 gMed=0 rho12=0.47 CPL00187
75S624 #3065 gMed=0 rho12=0.49 CPL00187
75S650 #3091 gMed=0 rho12=0.49 NpJ
75S649 #3090 gMed=0 rho12=0.51 NpJ
75S664 #3105 gMed=1 rho12=0.50 NpW
75S663 #3104 gMed=0 rho12=0.50 NpW
75S670 #3111 gMed=0 rho12=0.50 CPL00151
75S611 #3052 gMed=0 rho12=0.47 CPL00172
75S600 #3041 gMed=0 rho12=0.41 CPL00169L
75S648 #3089 gMed=0 rho12=0.42 CPL00229
65S162 #2653 gMed=0 rho12=0.49 Ste67
61S32 #2293 gMed=0 rho12=0.50 Bas37
75S659 #3100 gMed=0 rho12=0.48 CPL00262
61S65 #2327 gMed=0 rho12=0.48 Bas33
66S460 #2744 gMed=0 rho12=0.49 Bas55
66S436 #2720 gMed=0 rho12=0.48 Bas51
75S601 #3042 gMed=0 rho12=0.50 NpE
75S602 #3043 gMed=0 rho12=0.50 NpE
75S608 #3049 gMed=0 rho12=0.50 KCP031
75S607 #3048 gMed=0 rho12=0.49 KCP031
75S592 #3033 gMed=0 rho12=0.49 NpN
75S652 #3093 gMed=1 rho12=0.46 NpV
75S651 #3092 gMed=1 rho12=0.45 NpV
75S591 #3032 gMed=0 rho12=0.50 NpN
64S26 #2391 gMed=0 rho12=0.48 Laval1259
61S80 #2342 gMed=0 rho12=0.49 Bas48
75S579 #3020 gMed=0 rho12=0.48 NpM
75S580 #3021 gMed=0 rho12=0.49 NpM
75S638 #3099 gMed=0 rho12=0.51 CPL00146S
75S657 #3098 gMed=0 rho12=0.50 CPL00146S
75S621 #3062 gMed=0 rho12=0.50 CPL00124
75S645 #3086 gMed=0 rho12=0.50 CPL00136
75S587 #3028 gMed=0 rho12=0.50 CPL00152
75S588 #3029 gMed=0 rho12=0.50 CPL00152
75S637 #3078 gMed=0 rho12=0.50 NpU
75S647 #3088 gMed=0 rho12=0.50 CPL00229
75S622 #3063 gMed=0 rho12=0.51 CPL00124
66S446 #2730 gMed=0 rho12=0.49 Bas33
61S41 #2303 gMed=0 rho12=0.50 Bas29
66S415 #2699 gMed=0 rho12=0.49 EV212
66S393 #2677 gMed=0 rho12=0.49 K8
75S646 #3087 gMed=0 rho12=0.50 CPL00136
61S54 #2316 gMed=0 rho12=0.50 Bas31
66S434 #2718 gMed=0 rho12=0.49 Bas32
66S416 #2700 gMed=0 rho12=0.49 EV212
75S660 #3101 gMed=0 rho12=0.50 CPL00262
61S78 #2340 gMed=0 rho12=0.50 Bas34
75S626 #3067 gMed=0 rho12=0.50 NpG
75S615 #3056 gMed=0 rho12=0.50 NpU
75S625 #3066 gMed=0 rho12=0.50 NpG
75S638 #3079 gMed=0 rho12=0.50 NpU
75S616 #3057 gMed=0 rho12=0.50 NpU
75S655 #3096 gMed=0 rho12=0.49 KCP056
75S643 #3084 gMed=0 rho12=0.49 KCP055
75S644 #3085 gMed=0 rho12=0.49 KCP055
75S656 #3097 gMed=0 rho12=0.50 KCP056
61S37 #2299 gMed=0 rho12=0.49 Bas06
84S212 #3277 gMed=3 rho12=0.48 CPL00259L
71S117 #2860 gMed=3 rho12=0.44 Bas16
75S619 #3060 gMed=1 rho12=0.48 KCP042
84S211 #3276 gMed=1 rho12=0.49 CPL00259L
75S595 #3036 gMed=1 rho12=0.49 KCP017
75S596 #3037 gMed=0 rho12=0.50 KCP017
75S620 #3061 gMed=0 rho12=0.50 KCP042
75S633 #3074 gMed=0 rho12=0.48 CPL00134L
84S269 #3333 gMed=0 rho12=0.42 CPL00221
75S636 #3077 gMed=0 rho12=0.46 CPL00221
75S634 #3075 gMed=0 rho12=0.50 CPL00134L
61S40 #2302 gMed=0 rho12=0.50 Bas15
64S39 #2398 gMed=1 rho12=0.48 JK45
64S5 #2382 gMed=1 rho12=0.45 T4
64S40 #2399 gMed=0 rho12=0.48 JK45
75S597 #3038 gMed=0 rho12=0.48 KCP072
75S598 #3039 gMed=0 rho12=0.49 KCP072
75S610 #3051 gMed=0 rho12=0.49 KCP096
75S609 #3050 gMed=0 rho12=0.48 KCP096
75S662 #3103 gMed=195 rho12=0.18 NpK
75S661 #3102 gMed=169 rho12=0.21 NpK
84S231 #3295 gMed=254 rho12=0.10 Mpec10
84S216 #3281 gMed=278 rho12=0.09 Bas87
84S285 #3349 gMed=279 rho12=0.23 Bas85
75S589 #3030 gMed=213 rho12=0.19 NpA
85S289 #3353 gMed=333 rho12=0.19 Bas94
75S583 #3024 gMed=249 rho12=0.14 Bas83
26IT017 #1077 gMed=470 rho12=0.19 LB 0.5x with Supernatant; Tric
75S584 #3025 gMed=229 rho12=0.12 Bas83
75S590 #3031 gMed=229 rho12=0.13 NpA
75S653 #3094 gMed=214 rho12=0.08 Control_KEIO
61S617 #2359 gMed=378 rho12=0.01 Time0
75S672 #3113 gMed=414 rho12=0.05 Time0
71S173 #2869 gMed=657 rho12=0.05 Time0
75S666 #3107 gMed=352 rho12=0.02 Time0
75S665 #3106 gMed=324 rho12=0.02 Time0
75S671 #3112 gMed=410 rho12=0.04 Time0
61S83 #2345 gMed=26 rho12=0.34 CM8
19IT014 #902 gMed=24 rho12=0.35 LB_plus_SM_buffer with T5_phag
19IT013 #901 gMed=24 rho12=0.32 LB_plus_SM_buffer with T5_phag
16IT081 #834 gMed=35 rho12=0.10 LB_plus_SM_buffer with I86_phag
84S243 #3307 gMed=22 rho12=0.39 Mnm1
84S208 #3273 gMed=12 rho12=0.48 Mnm1
75S654 #3095 gMed=9 rho12=0.49 Control_KEIO
16IT013 #766 gMed=23 rho12=0.50 LB_plus_SM_buffer with T2_phag
16IT048 #801 gMed=7 rho12=0.49 LB_plus_SM_buffer with LZ4_phag
84S196 #3261 gMed=3 rho12=0.47 Borec
64S16 #2387 gMed=2 rho12=0.43 JK36
75S604 #3045 gMed=183 rho12=0.68 NpO
75S603 #3044 gMed=224 rho12=0.69 NpO
75S667 #3108 gMed=5 rho12=0.41 KCP064
61S11 #2275 gMed=6 rho12=0.43 Bas63
75S668 #3109 gMed=5 rho12=0.37 KCP064
75S669 #3110 gMed=2 rho12=0.49 CPL00151
75S605 #3046 gMed=6 rho12=0.35 NpY
75S640 #3081 gMed=1 rho12=0.47 NpS
75S639 #3080 gMed=2 rho12=0.48 NpS
75S627 #3068 gMed=3 rho12=0.46 NpR
64S28 #2393 gMed=2 rho12=0.48 JK38
75S628 #3069 gMed=3 rho12=0.46 NpR
75S641 #3082 gMed=2 rho12=0.45 CM8m3
75S642 #3083 gMed=1 rho12=0.45 CM8m3
75S630 #3071 gMed=2 rho12=0.40 CM8m1
75S629 #3070 gMed=2 rho12=0.45 CM8m1
75S586 #3027 gMed=11 rho12=0.34 KCP068
69S526 #2833 gMed=1 rho12=0.46 RB14
75S631 #3072 gMed=1 rho12=0.36 KCP045
75S632 #3073 gMed=4 rho12=0.23 KCP045
75S599 #3040 gMed=1 rho12=0.34 CPL00169L
84S267 #3331 gMed=4 rho12=0.50 NpB
75S593 #3034 gMed=5 rho12=0.52 NpAA
84S197 #3262 gMed=3 rho12=0.47 CPL00144L
84S198 #3263 gMed=3 rho12=0.44 CPL00144L
84S278 #3342 gMed=5 rho12=0.45 Phocom
75S594 #3035 gMed=1 rho12=0.48 NpAA
84S210 #3275 gMed=1 rho12=0.49 CPL00159
75S612 #3053 gMed=1 rho12=0.46 CPL00172
75S606 #3047 gMed=0 rho12=0.47 NpY

9/3/24 Keio_ML9_set6
8/3/23 Keio_ML9_set6
8/11/2025 Keio_ML9_set6
12/16/24 Keio_ML9a_set6
8/11/2025 Keio_ML9_set6
8/11/2025 Keio_ML9_set6
8/11/2025 Keio_ML9_set6

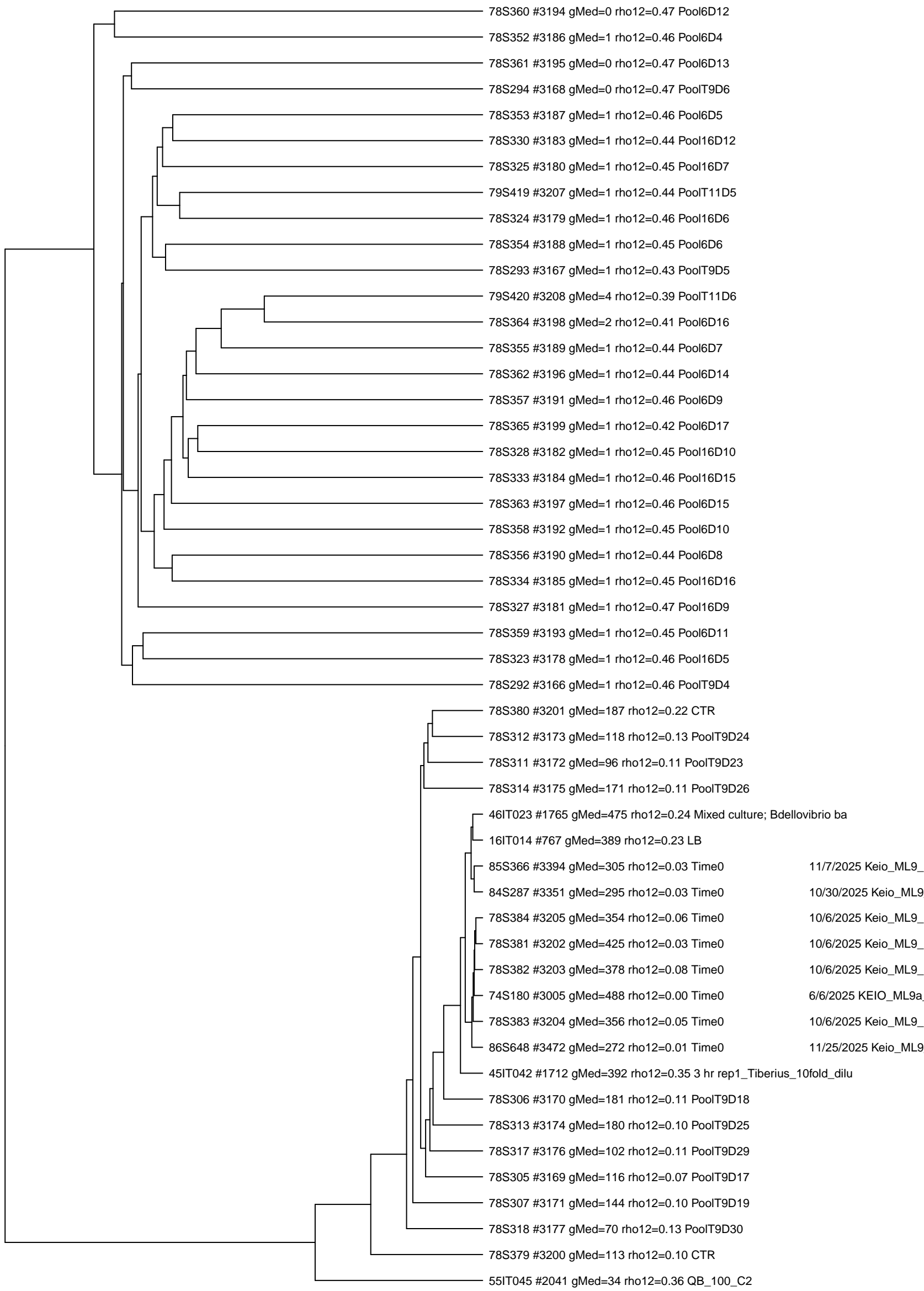
1.0 0.8 0.6 0.4 0.2 0.0

8/11/2025 Keio_ML9_set76 and similar samples
(clustered by log-count)



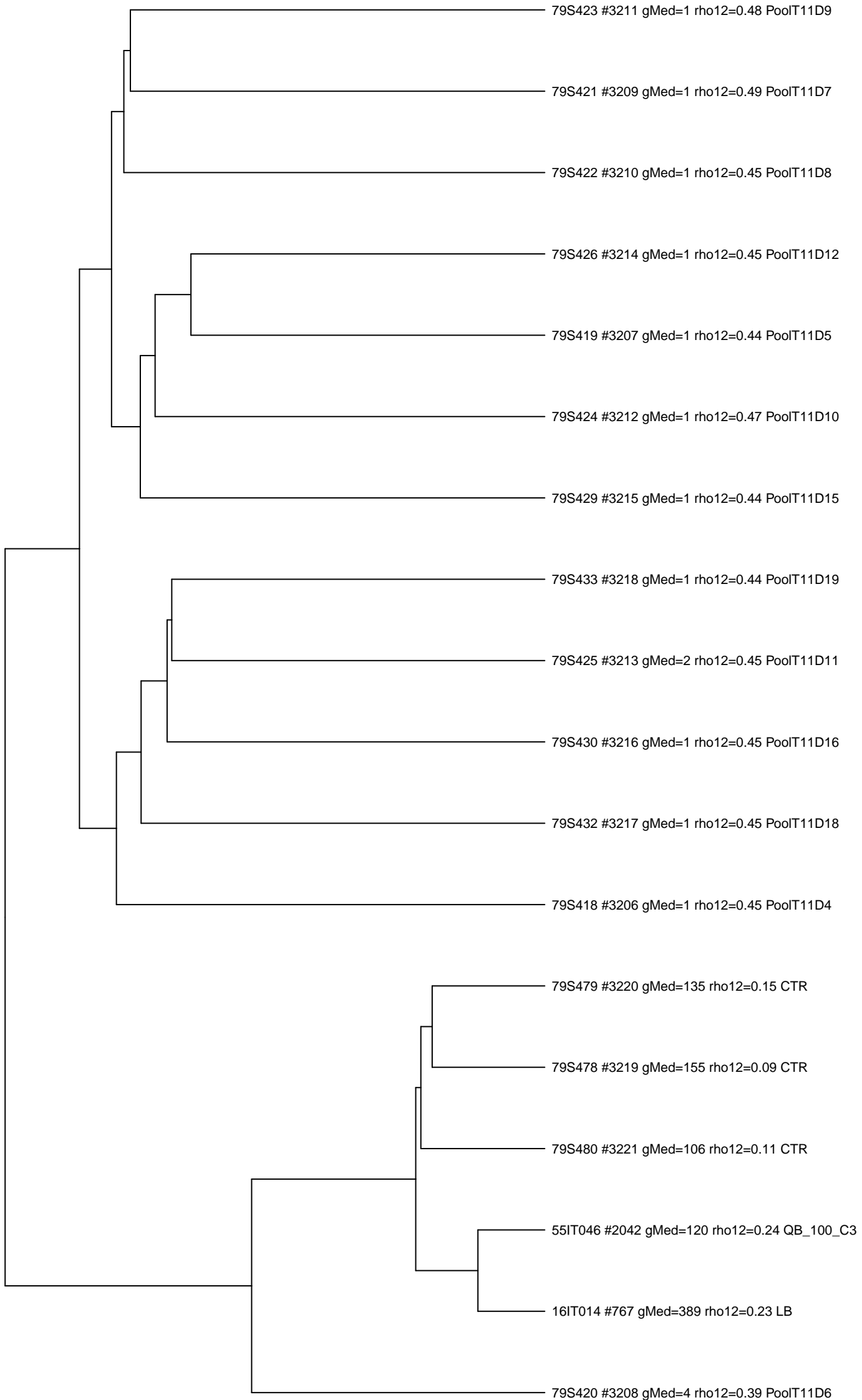
1.0 0.8 0.6 0.4 0.2 0.0

10/6/2025 Keio_ML9_set78 and similar samples
(clustered by log-count)



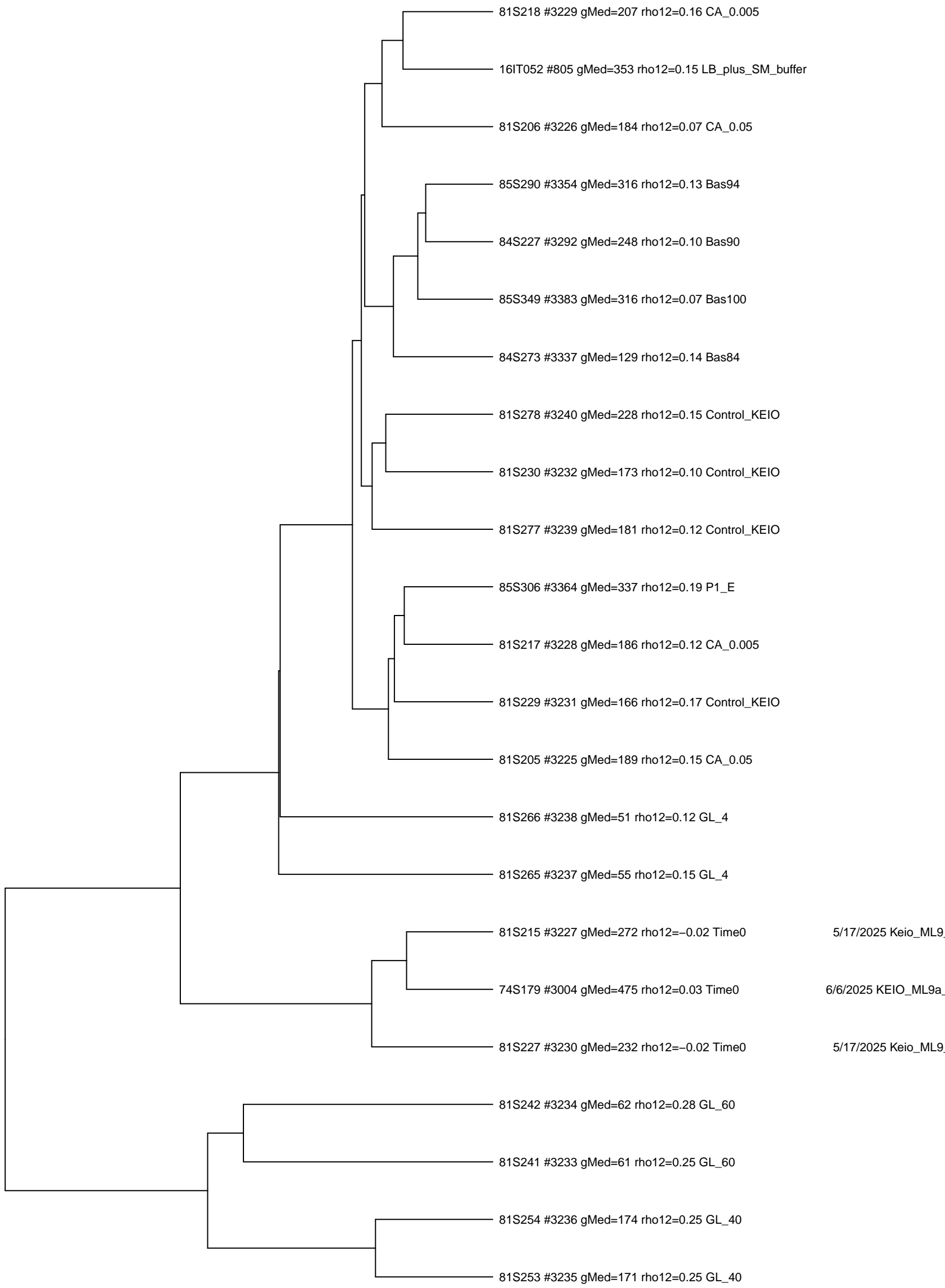
0.6 0.5 0.4 0.3 0.2 0.1 0.0

10/6/2025 and similar samples
(clustered by log-count)



0.5 0.4 0.3 0.2 0.1 0.0

5/17/2025 Keio_ML9_set81 and similar samples
(clustered by log-count)



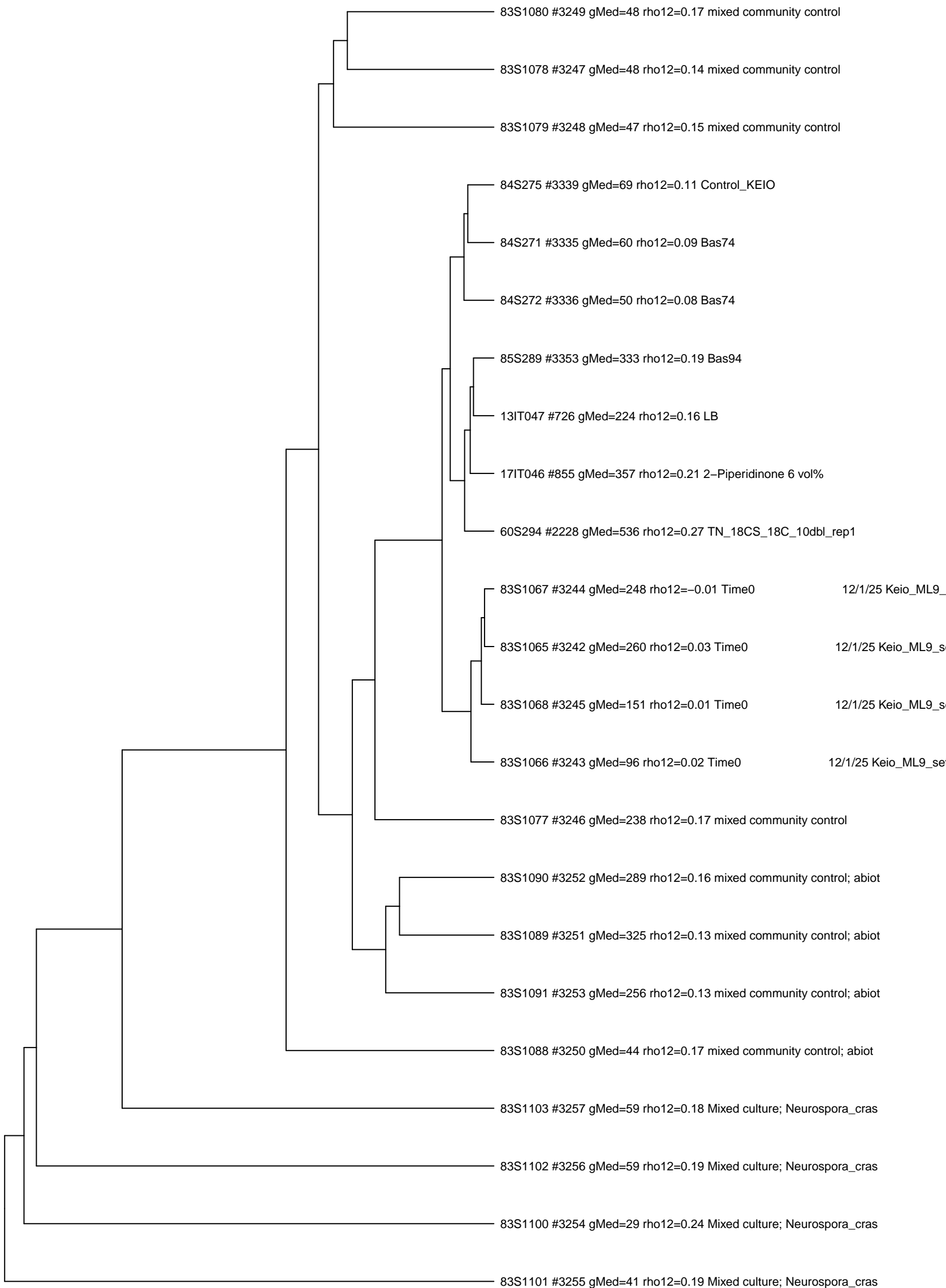
0.08 0.06 0.04 0.02 0.00

set82 Keio_ML9_set82 and similar samples
(clustered by log-count)



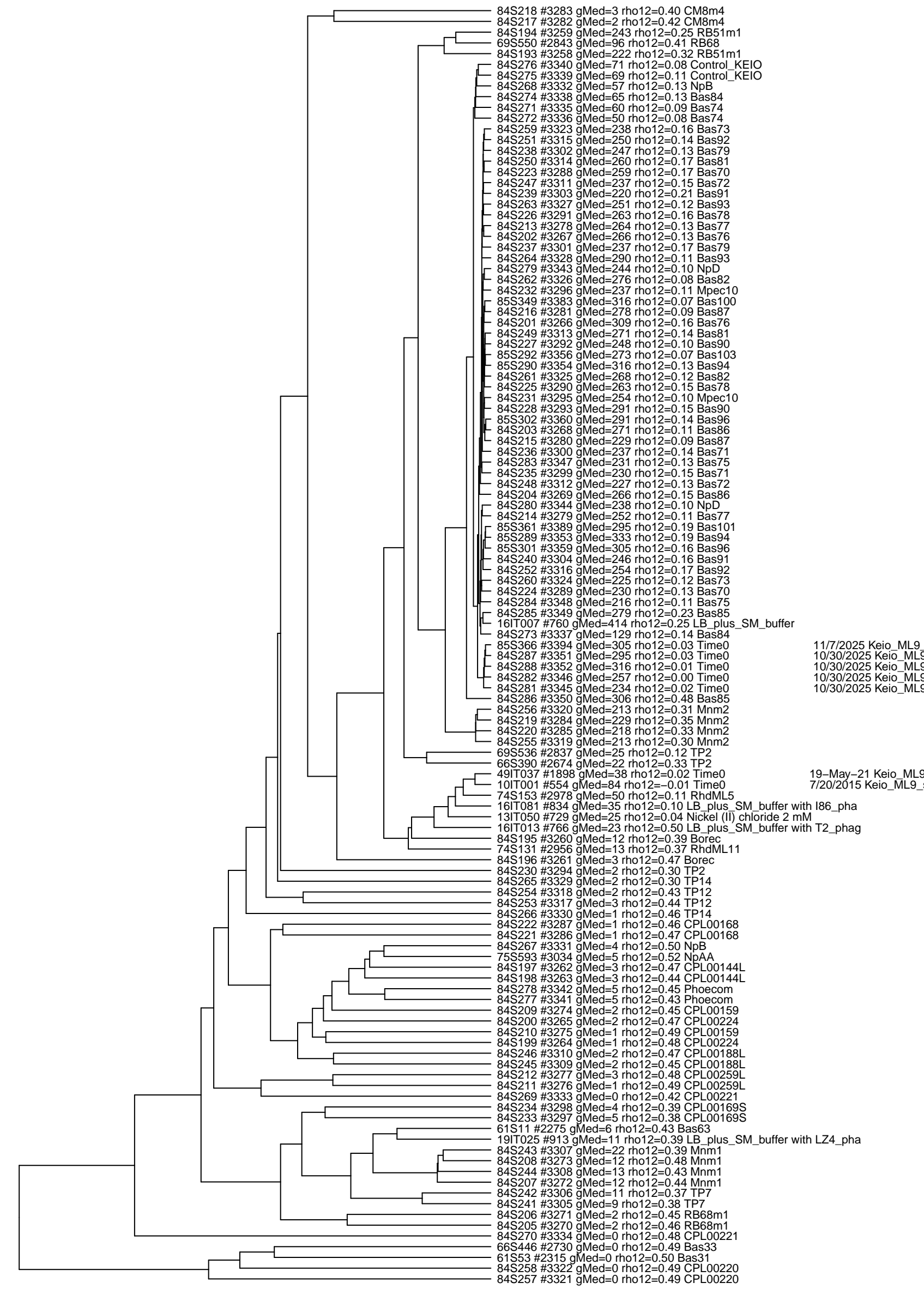
0.015 0.010 0.005 0.000

12/1/25 Keio_ML9_set83 and similar samples
(clustered by log-count)



0.5 0.4 0.3 0.2 0.1 0.0

10/30/2025 Keio_ML9_set84 and similar samples
(clustered by log-count)



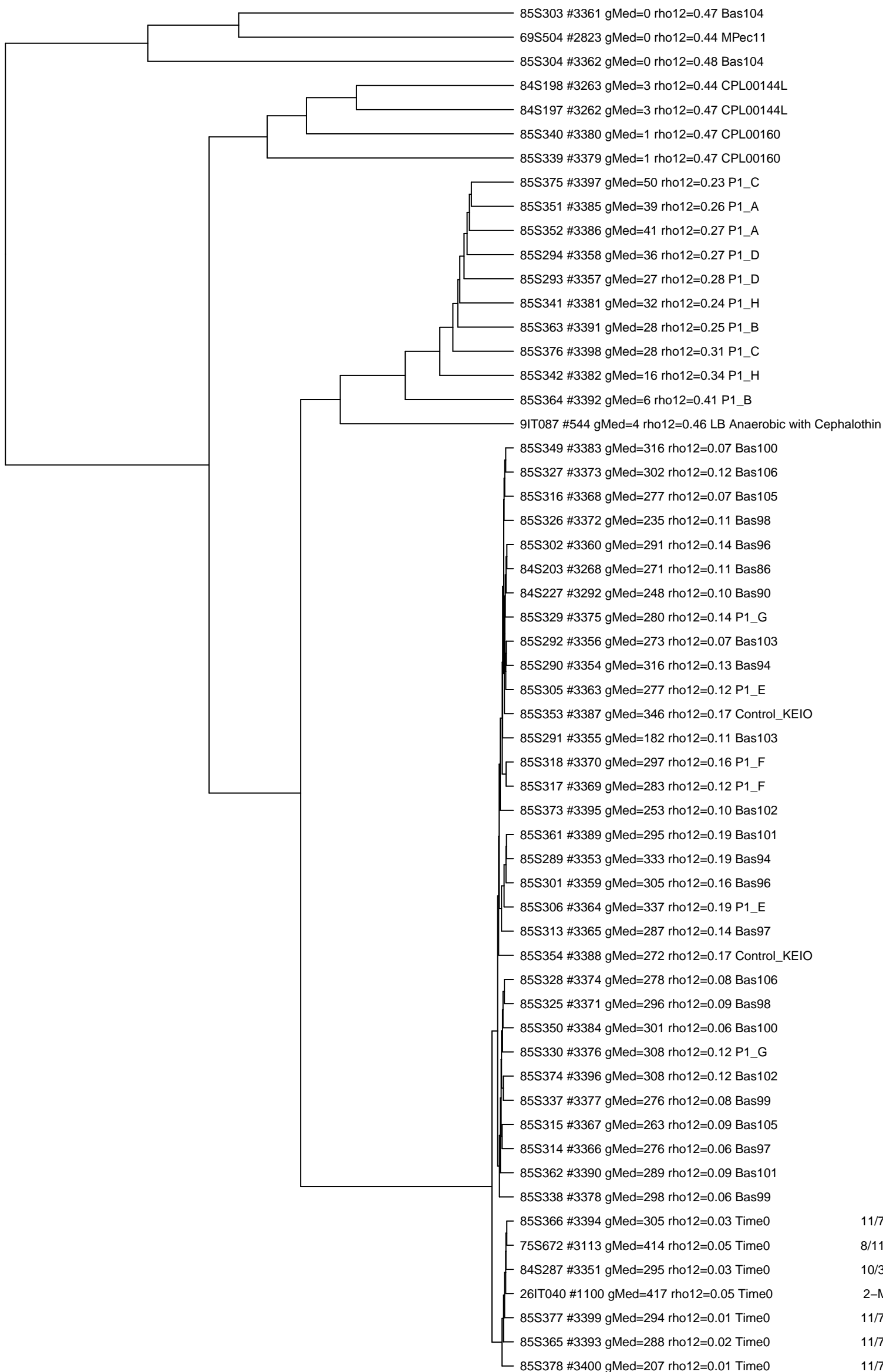
84S218 #3283 gMed=3 rho12=0.40 CM8m4
 84S217 #3282 gMed=2 rho12=0.42 CM8m4
 84S194 #3259 gMed=243 rho12=0.25 RB51m1
 69S550 #2843 gMed=96 rho12=0.41 RB68
 84S193 #3258 gMed=222 rho12=0.32 RB51m1
 84S276 #3340 gMed=71 rho12=0.08 Control_KEIO
 84S275 #3339 gMed=69 rho12=0.11 Control_KEIO
 84S268 #3332 gMed=57 rho12=0.13 NpB
 84S274 #3338 gMed=65 rho12=0.13 Bas84
 84S271 #3335 gMed=60 rho12=0.09 Bas74
 84S272 #3336 gMed=50 rho12=0.08 Bas74
 84S259 #3323 gMed=238 rho12=0.16 Bas73
 84S251 #3315 gMed=250 rho12=0.14 Bas92
 84S238 #3302 gMed=247 rho12=0.13 Bas79
 84S250 #3314 gMed=260 rho12=0.17 Bas81
 84S223 #3288 gMed=259 rho12=0.17 Bas70
 84S247 #3311 gMed=237 rho12=0.15 Bas72
 84S239 #3303 gMed=220 rho12=0.21 Bas91
 84S263 #3327 gMed=251 rho12=0.12 Bas93
 84S226 #3291 gMed=263 rho12=0.16 Bas78
 84S213 #3278 gMed=264 rho12=0.13 Bas77
 84S202 #3267 gMed=266 rho12=0.13 Bas76
 84S237 #3301 gMed=237 rho12=0.17 Bas79
 84S264 #3328 gMed=290 rho12=0.11 Bas93
 84S279 #3343 gMed=244 rho12=0.10 NpD
 84S262 #3326 gMed=276 rho12=0.08 Bas82
 84S232 #3296 gMed=237 rho12=0.11 Mpec10
 85S349 #3383 gMed=316 rho12=0.07 Bas100
 84S216 #3281 gMed=278 rho12=0.09 Bas87
 84S201 #3266 gMed=309 rho12=0.16 Bas76
 84S249 #3313 gMed=271 rho12=0.14 Bas81
 84S227 #3292 gMed=248 rho12=0.10 Bas90
 85S292 #3356 gMed=273 rho12=0.07 Bas103
 85S290 #3354 gMed=316 rho12=0.13 Bas94
 84S261 #3325 gMed=268 rho12=0.12 Bas82
 84S225 #3290 gMed=263 rho12=0.15 Bas78
 84S231 #3295 gMed=254 rho12=0.10 Mpec10
 84S228 #3293 gMed=291 rho12=0.15 Bas90
 85S302 #3360 gMed=291 rho12=0.14 Bas96
 84S203 #3268 gMed=271 rho12=0.11 Bas86
 84S215 #3280 gMed=229 rho12=0.09 Bas87
 84S236 #3300 gMed=237 rho12=0.14 Bas71
 84S283 #3347 gMed=231 rho12=0.13 Bas75
 84S235 #3299 gMed=230 rho12=0.15 Bas71
 84S248 #3312 gMed=227 rho12=0.13 Bas72
 84S204 #3269 gMed=266 rho12=0.15 Bas86
 84S280 #3344 gMed=238 rho12=0.10 NpD
 84S214 #3279 gMed=252 rho12=0.11 Bas77
 85S361 #3389 gMed=295 rho12=0.19 Bas101
 85S289 #3353 gMed=333 rho12=0.19 Bas94
 85S301 #3359 gMed=305 rho12=0.16 Bas96
 84S240 #3304 gMed=246 rho12=0.16 Bas91
 84S252 #3316 gMed=254 rho12=0.17 Bas92
 84S260 #3324 gMed=225 rho12=0.12 Bas73
 84S224 #3289 gMed=230 rho12=0.13 Bas70
 84S284 #3348 gMed=216 rho12=0.11 Bas75
 84S285 #3349 gMed=279 rho12=0.23 Bas85
 16IT007 #760 gMed=414 rho12=0.25 LB_plus_SM_buffer
 84S273 #3337 gMed=129 rho12=0.14 Bas84
 85S366 #3394 gMed=305 rho12=0.03 Time0
 84S287 #3351 gMed=295 rho12=0.03 Time0
 84S288 #3352 gMed=316 rho12=0.01 Time0
 84S282 #3346 gMed=257 rho12=0.00 Time0
 84S281 #3345 gMed=234 rho12=0.02 Time0
 84S286 #3350 gMed=306 rho12=0.48 Bas85
 84S256 #3320 gMed=213 rho12=0.31 Mnm2
 84S219 #3284 gMed=229 rho12=0.35 Mnm2
 84S220 #3285 gMed=218 rho12=0.33 Mnm2
 84S255 #3319 gMed=213 rho12=0.30 Mnm2
 69S536 #2837 gMed=25 rho12=0.12 TP2
 66S390 #2674 gMed=22 rho12=0.33 TP2
 49IT037 #1898 gMed=38 rho12=0.02 Time0
 10IT001 #554 gMed=84 rho12=-0.01 Time0
 74S153 #2978 gMed=50 rho12=0.11 RhdML5
 16IT081 #834 gMed=35 rho12=0.10 LB_plus_SM_buffer with I86 pha
 13IT050 #729 gMed=25 rho12=0.04 Nickel (II) chloride 2 mM
 16IT013 #766 gMed=23 rho12=0.50 LB_plus_SM_buffer with T2 phag
 84S195 #3260 gMed=12 rho12=0.39 Borec
 74S131 #2956 gMed=13 rho12=0.37 RhdML11
 84S196 #3261 gMed=3 rho12=0.47 Borec
 84S230 #3294 gMed=2 rho12=0.30 TP2
 84S265 #3329 gMed=2 rho12=0.30 TP14
 84S254 #3318 gMed=2 rho12=0.43 TP12
 84S253 #3317 gMed=3 rho12=0.44 TP12
 84S266 #3330 gMed=1 rho12=0.46 TP14
 84S222 #3287 gMed=1 rho12=0.46 CPL00168
 84S221 #3286 gMed=1 rho12=0.47 CPL00168
 84S267 #3331 gMed=4 rho12=0.50 NpB
 75S593 #3034 gMed=5 rho12=0.52 NpAA
 84S197 #3262 gMed=3 rho12=0.47 CPL00144L
 84S198 #3263 gMed=3 rho12=0.44 CPL00144L
 84S278 #3342 gMed=5 rho12=0.45 Phoecom
 84S277 #3341 gMed=5 rho12=0.43 Phoecom
 84S209 #3274 gMed=2 rho12=0.45 CPL00159
 84S200 #3265 gMed=2 rho12=0.47 CPL00224
 84S210 #3275 gMed=1 rho12=0.49 CPL00159
 84S199 #3264 gMed=1 rho12=0.48 CPL00224
 84S246 #3310 gMed=2 rho12=0.47 CPL00188L
 84S245 #3309 gMed=2 rho12=0.45 CPL00188L
 84S212 #3277 gMed=3 rho12=0.48 CPL00259L
 84S211 #3276 gMed=1 rho12=0.49 CPL00259L
 84S269 #3333 gMed=0 rho12=0.42 CPL00221
 84S234 #3298 gMed=4 rho12=0.39 CPL00169S
 84S233 #3297 gMed=5 rho12=0.38 CPL00169S
 61S11 #2275 gMed=6 rho12=0.43 Bas63
 19IT025 #913 gMed=11 rho12=0.39 LB_plus_SM_buffer with LZ4 pha
 84S243 #3307 gMed=22 rho12=0.39 Mnm1
 84S208 #3273 gMed=12 rho12=0.48 Mnm1
 84S244 #3308 gMed=13 rho12=0.43 Mnm1
 84S207 #3272 gMed=12 rho12=0.44 Mnm1
 84S242 #3306 gMed=11 rho12=0.37 TP7
 84S241 #3305 gMed=9 rho12=0.38 TP7
 84S206 #3271 gMed=2 rho12=0.45 RB68m1
 84S205 #3270 gMed=2 rho12=0.46 RB68m1
 84S270 #3334 gMed=0 rho12=0.48 CPL00221
 66S446 #2730 gMed=0 rho12=0.49 Bas33
 61S53 #2315 gMed=0 rho12=0.50 Bas31
 84S258 #3322 gMed=0 rho12=0.49 CPL00220
 84S257 #3321 gMed=0 rho12=0.49 CPL00220

11/7/2025 Keio_ML9_s
 10/30/2025 Keio_ML9
 10/30/2025 Keio_ML9
 10/30/2025 Keio_ML9
 10/30/2025 Keio_ML9

19-May-21 Keio_ML9
 7/20/2015 Keio_ML9_s

1.0 0.8 0.6 0.4 0.2 0.0

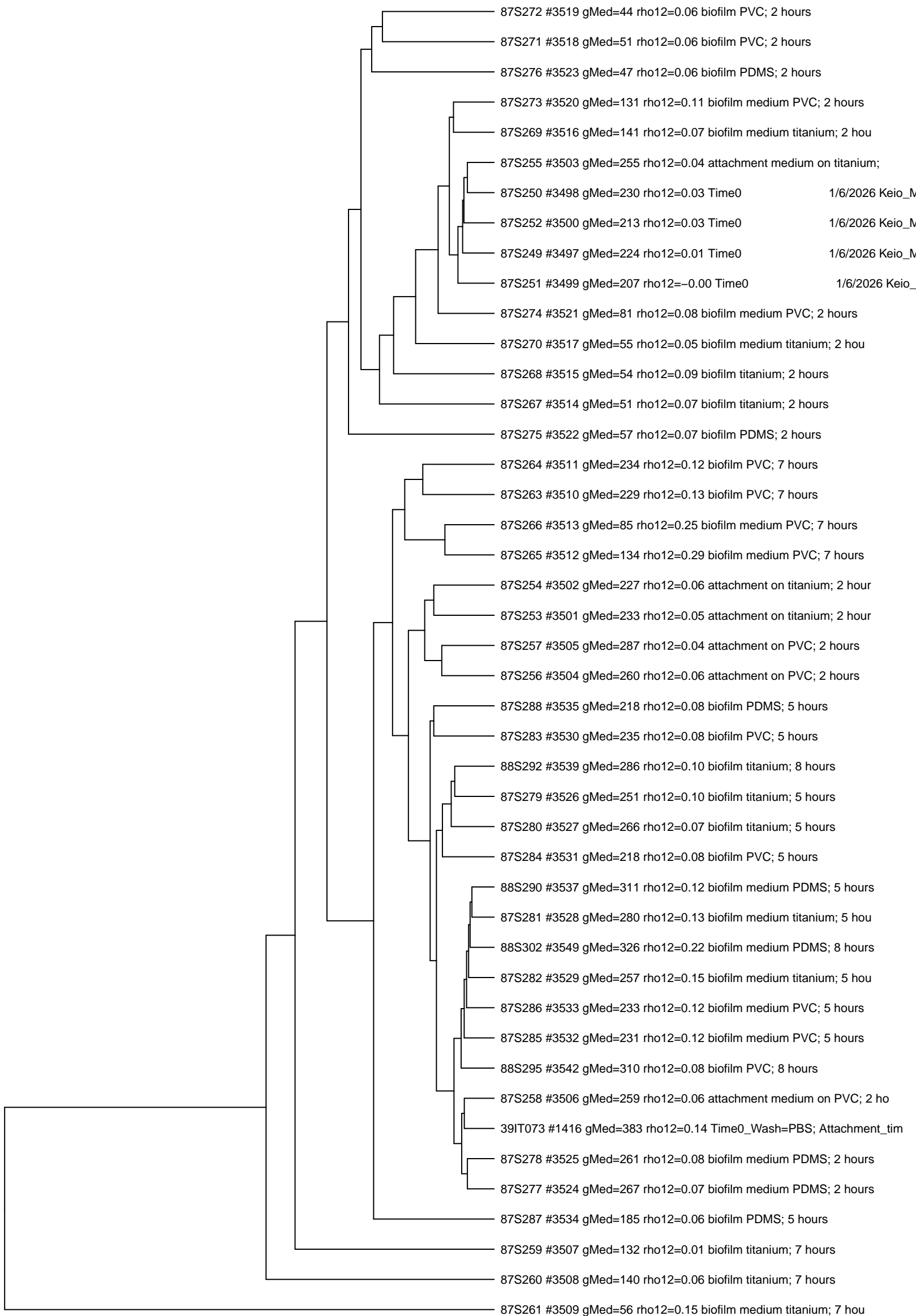
11/7/2025 Keio_ML9_set85 and similar samples
(clustered by log-count)



11/7/2025 Keio_ML9_s
 8/11/2025 Keio_ML9_s
 10/30/2025 Keio_ML9_s
 2-May-18 Keio_ML9_s
 11/7/2025 Keio_ML9_s
 11/7/2025 Keio_ML9_s
 11/7/2025 Keio_ML9_s

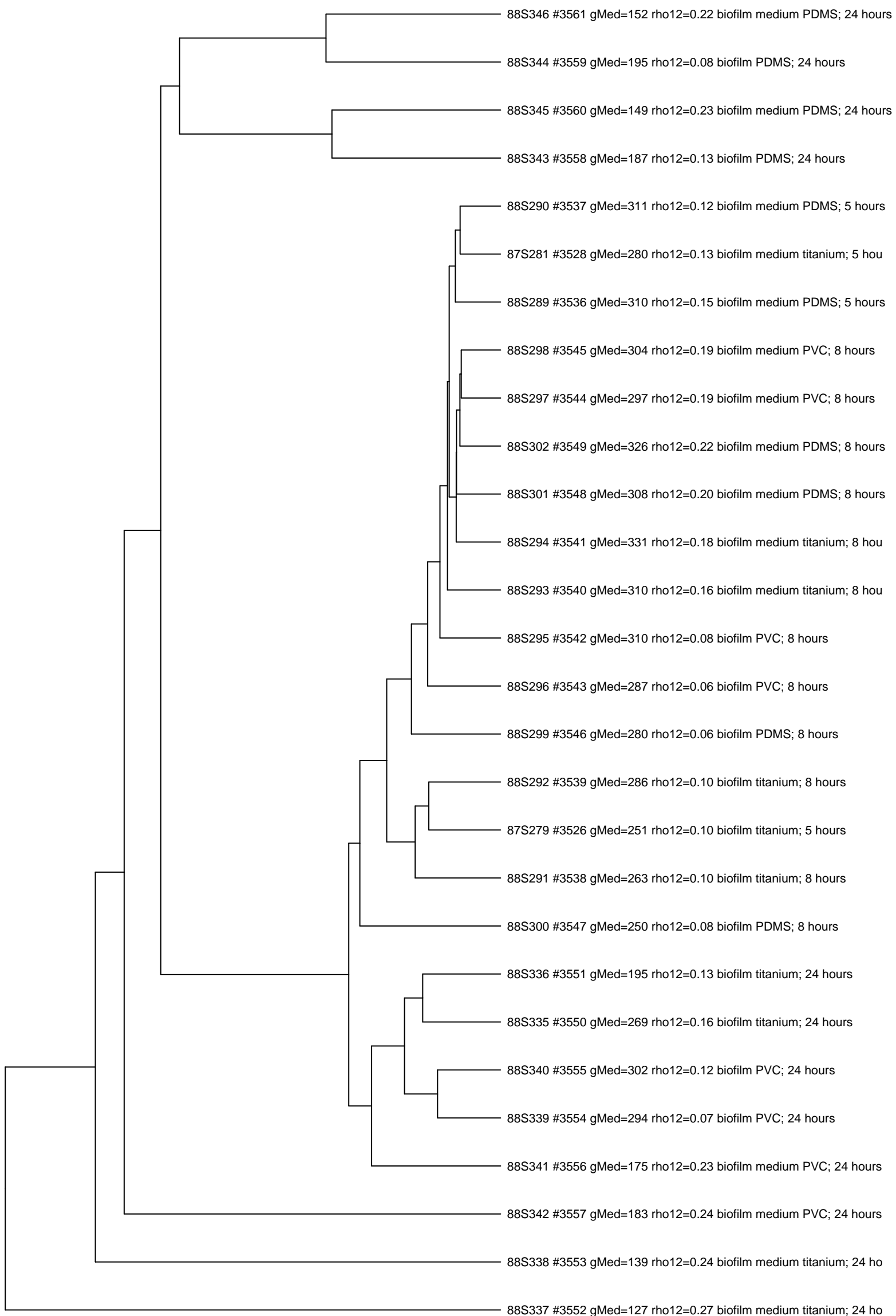
0.8 0.6 0.4 0.2 0.0

1/6/2026 Keio_ML9_set87 and similar samples
(clustered by log-count)



0.15 0.10 0.05 0.00

1/6/2026 and similar samples
(clustered by log-count)



0.10 0.08 0.06 0.04 0.02 0.00