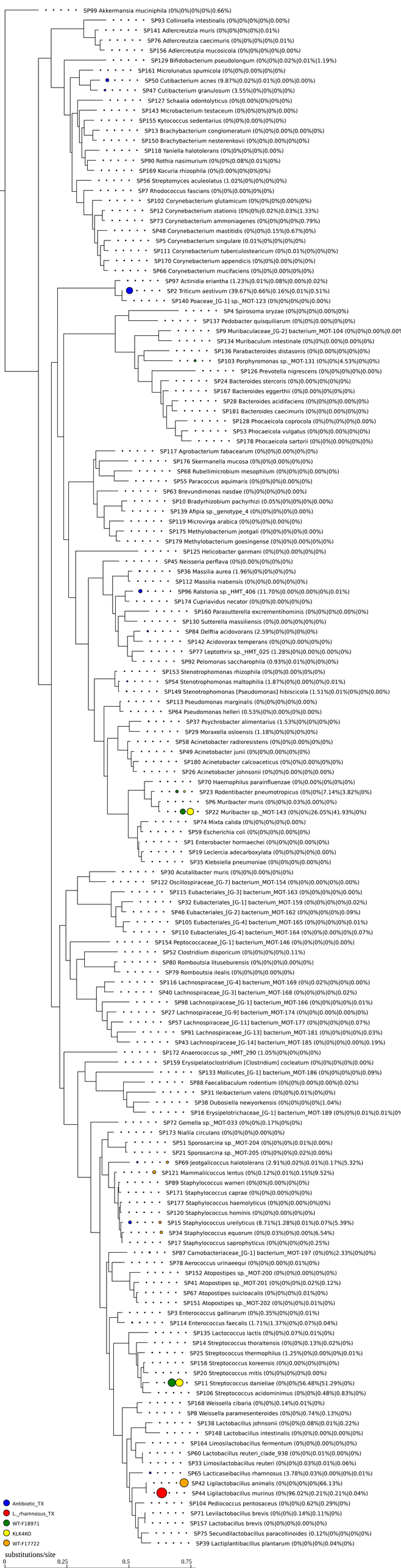
SP99 Akkermansia muciniphila (0%|0%|0%|0%|0.66%)
SP93 Collinsella intestinalis (0%|0%|0%|0%|0.00%)
SP141 Adlercreutzia muris (0%|0%|0%|0%|0.01%)
SP76 Adlercreutzia caecimuris (0%|0%|0%|0%|0.01%)
SP156 Adlercreutzia mucosicola (0%|0%|0%|0%|0.00%)
SP129 Bifidobacterium pseudolongum (0%|0%|0.02%|0.01%|1.19%)
SP161 Microlunatus spumicola (0%|0%|0.00%|0%|0%)
SP50 Cutibacterium acnes (9.87%|0.02%|0.01%|0.00%|0.00%)
SP47 Cutibacterium granulosum (3.55%|0%|0%|0%|0%)
SP127 Schaalia odontolyticus (0%|0.00%|0%|0%|0%)
SP143 Microbacterium testaceum (0%|0%|0%|0%|0.00%)
SP155 Kytococcus sedentarius (0%|0%|0.00%|0%|0%)
SP13 Brachybacterium conglomeratum (0%|0%|0.00%|0.00%|0%)
SP150 Brachybacterium nesterenkovii (0%|0%|0.00%|0%|0%)
SP118 Yaniella halotolerans (0%|0%|0%|0%|0.00%)
SP90 Rothia nasimurium (0%|0%|0.08%|0.01%|0%)
SP169 Kocuria rhizophila (0%|0.00%|0%|0%|0%)
SP56 Streptomyces aculeolatus (1.02%|0%|0%|0%|0%)
SP7 Rhodococcus fascians (0%|0%|0.00%|0%|0%)
SP102 Corynebacterium glutamicum (0%|0%|0%|0.00%|0%)
SP12 Corynebacterium stationis (0%|0%|0.02%|0.03%|1.33%)
SP73 Corynebacterium ammoniagenes (0%|0%|0%|0%|0.79%)
SP48 Corynebacterium mastitidis (0%|0%|0.15%|0.67%|0%)
SP5 Corynebacterium singulare (0.01%|0%|0%|0%|0%)
SP111 Corynebacterium tuberculostearicum (0%|0.01%|0%|0%|0%)
SP170 Corynebacterium appendicis (0%|0%|0.00%|0%|0%)
SP66 Corynebacterium mucifaciens (0%|0%|0.00%|0%|0%)
SP97 Actinidia eriantha (1.23%|0.01%|0.08%|0.00%|0.02%)
SP2 Triticum aestivum (39.67%|0.66%|0.16%|0.01%|0.51%)
SP140 Poaceae_[G-1] sp._MOT-123 (0%|0%|0%|0%|0.00%)
SP4 Spirosoma oryzae (0%|0%|0%|0.00%|0%)
SP137 Pedobacter quisquiliarum (0%|0%|0.00%|0%|0%)
SP9 Muribaculaceae_[G-2] bacterium_MOT-104 (0%|0%|0.00%|0.00%
SP134 Muribaculum intestinale (0%|0%|0.00%|0.00%|0%)
SP136 Parabacteroides distasonis (0%|0.00%|0%|0%|0%)
SP103 Porphyromonas sp._MOT-131 (0%|0%|4.53%|0%|0%)
SP126 Prevotella nigrescens (0%|0%|0%|0%|0.00%)
SP24 Bacteroides stercoris (0%|0.00%|0%|0%|0%)
SP167 Bacteroides eggerthii (0%|0.00%|0%|0%|0%)
SP28 Bacteroides acidifaciens (0%|0%|0%|0.00%|0%)
SP181 Bacteroides caecimuris (0%|0%|0.00%|0%|0%)
SP128 Phocaeicola coprocola (0%|0%|0%|0%|0.00%)
SP53 Phocaeicola vulgatus (0%|0%|0.00%|0%|0%)
SP178 Phocaeicola sartorii (0%|0%|0.00%|0%|0%)
SP117 Agrobacterium fabacearum (0%|0%|0.00%|0%|0%)
SP176 Skermanella mucosa (0%|0%|0.00%|0%|0%)
SP68 Rubellimicrobium mesophilum (0%|0%|0%|0.00%|0%)
SP55 Paracoccus aquimaris (0%|0%|0%|0.00%|0%)
SP63 Brevundimonas nasdae (0%|0%|0%|0%|0.00%)
SP10 Bradyrhizobium pachyrhizi (0.05%|0%|0%|0%|0.00%)
SP139 Afipia sp._genotype_4 (0%|0%|0%|0%|0.00%)
SP119 Microvirga arabica (0%|0%|0%|0.00%|0%)
SP175 Methylobacterium jeotgali (0%|0%|0%|0%|0.00%)
SP179 Methylobacterium goesingense (0%|0%|0.00%|0%|0%)
SP125 Helicobacter ganmani (0%|0%|0.00%|0%|0%)
SP45 Neisseria perflava (0%|0.00%|0%|0%|0%)
SP36 Massilia aurea (1.96%|0%|0%|0%|0%)
SP112 Massilia niabensis (0%|0%|0.00%|0%|0%)
SP96 Ralstonia sp._HMT_406 (11.70%|0.00%|0.00%|0%|0.01%)
SP174 Cupriavidus necator (0%|0%|0.00%|0%|0%)
SP160 Parasutterella excrementihominis (0%|0%|0%|0.00%|0%)
SP130 Sutterella massiliensis (0%|0.00%|0%|0%|0%)
SP84 Delftia acidovorans (2.59%|0%|0%|0%|0%)
SP142 Acidovorax temperans (0%|0%|0.00%|0%|0%)
SP77 Leptothrix sp._HMT_025 (1.28%|0%|0.00%|0.00%|0%)
SP92 Pelomonas saccharophila (0.93%|0.01%|0%|0%|0%)
SP153 Stenotrophomonas rhizophila (0%|0%|0.00%|0%|0%)
SP54 Stenotrophomonas maltophilia (1.87%|0%|0.00%|0%|0.01%)
SP149 Stenotrophomonas [Pseudomonas] hibiscicola (1.51%|0.01%|0%|0%|0.00%)
SP113 Pseudomonas marginalis (0%|0%|0%|0%|0.00%)
SP64 Pseudomonas helleri (0.53%|0%|0.00%|0%|0.00%)
SP37 Psychrobacter alimentarius (1.53%|0%|0%|0%|0%)
SP29 Moraxella osloensis (1.18%|0%|0%|0%|0%)
SP58 Acinetobacter radioresistens (0%|0%|0.00%|0%|0%)
SP49 Acinetobacter junii (0%|0%|0.00%|0%|0%)
SP180 Acinetobacter calcoaceticus (0%|0%|0.00%|0%|0%)
SP26 Acinetobacter johnsonii (0%|0%|0.00%|0%|0.00%)
SP70 Haemophilus parainfluenzae (0%|0%|0%|0%|0%)
SP23 Rodentibacter pneumotropicus (0%|0%|7.14%|3.82%|0%)
SP6 Muribacter muris (0%|0%|0.03%|0.00%|0%)
SP22 Muribacter sp._MOT-143 (0%|0%|26.05%|41.93%|0%)
SP74 Mixta calida (0%|0%|0%|0%|0.00%)
SP59 Escherichia coli (0%|0%|0%|0.00%|0%)
SP1 Enterobacter hormaechei (0%|0%|0%|0.00%|0%)
SP19 Leclercia adecarboxylata (0%|0%|0%|0%|0.00%)
SP35 Klebsiella pneumoniae (0%|0%|0%|0.00%|0%)
SP30 Acutalibacter muris (0%|0%|0.00%|0%|0%)
SP122 Oscillospiraceae_[G-7] bacterium_MOT-154 (0%|0%|0.00%|0%|0.00%)
SP115 Eubacteriales_[G-3] bacterium_MOT-163 (0%|0%|0%|0%|0.00%)
SP32 Eubacteriales_[G-1] bacterium_MOT-159 (0%|0%|0%|0%|0.02%)
SP46 Eubacteriales_[G-2] bacterium_MOT-162 (0%|0%|0%|0%|0.09%)
SP105 Eubacteriales_[G-4] bacterium_MOT-165 (0%|0%|0%|0%|0.01%)
SP110 Eubacteriales_[G-4] bacterium_MOT-164 (0%|0%|0.00%|0%|0.07%)
SP154 Peptococcaceae_[G-1] bacterium_MOT-146 (0%|0%|0%|0%|0.00%)
SP52 Clostridium disporicum (0%|0%|0%|0%|0.11%)
SP80 Romboutsia lituseburensis (0%|0%|0%|0.00%|0%)
SP79 Romboutsia ilealis (0%|0%|0%|0.00%|0%)
SP116 Lachnospiraceae_[G-4] bacterium_MOT-169 (0%|0.02%|0%|0%|0.00%)
SP40 Lachnospiraceae_[G-3] bacterium_MOT-168 (0%|0%|0%|0%|0.02%)
SP98 Lachnospiraceae_[G-1] bacterium_MOT-166 (0%|0%|0%|0%|0.01%)
SP27 Lachnospiraceae_[G-9] bacterium_MOT-174 (0%|0%|0.00%|0.00%|0%)
SP57 Lachnospiraceae_[G-11] bacterium_MOT-177 (0%|0%|0%|0%|0.07%)
SP91 Lachnospiraceae_[G-13] bacterium_MOT-181 (0%|0%|0%|0%|0.03%)
SP43 Lachnospiraceae_[G-14] bacterium_MOT-185 (0%|0%|0%|0.00%|0.19%)
SP172 Anaerococcus sp._HMT_290 (1.05%|0%|0%|0%|0%)
SP159 Erysipelatoclostridium [Clostridium] cocleatum (0%|0%|0%|0%|0.00%)
SP133 Mollicutes_[G-1] bacterium_MOT-186 (0%|0%|0%|0%|0.09%)
SP88 Faecalibaculum rodentium (0%|0%|0.00%|0.00%|0.02%)
SP31 Ileibacterium valens (0%|0%|0.01%|0%|0%)
SP38 Dubosiella newyorkensis (0%|0%|0%|0%|1.04%)
SP16 Erysipelotrichaceae_[G-1] bacterium_MOT-189 (0%|0%|0.01%|0.01%|0%
SP72 Gemella sp._MOT-033 (0%|0%|0.17%|0%|0%)
SP173 Niallia circulans (0%|0%|0%|0.00%|0%)
SP51 Sporosarcina sp._MOT-204 (0%|0%|0%|0.01%|0.00%)
SP21 Sporosarcina sp._MOT-205 (0%|0%|0%|0.02%|0.00%)
SP69 Jeotgalicoccus halotolerans (2.91%|0.02%|0.01%|0.17%|5.32%)
SP121 Mammaliicoccus lentus (0%|0.12%|0.01%|0.15%|9.52%)
SP89 Staphylococcus warneri (0%|0%|0.00%|0%|0%)
SP171 Staphylococcus caprae (0%|0%|0.00%|0%|0%)
SP177 Staphylococcus haemolyticus (0%|0%|0.00%|0%|0%)
SP120 Staphylococcus hominis (0%|0%|0.00%|0%|0%)
SP15 Staphylococcus ureilyticus (8.71%|1.28%|0.01%|0.07%|5.39%)
SP34 Staphylococcus equorum (0%|0.03%|0%|0.00%|6.54%)
SP17 Staphylococcus saprophyticus (0%|0%|0%|0%|0.25%)
SP87 Carnobacteriaceae_[G-1] bacterium_MOT-197 (0%|0%|2.33%|0%|0%)
SP78 Aerococcus urinaeequi (0%|0%|0.00%|0.01%|0%)
SP152 Atopostipes sp._MOT-200 (0%|0%|0.00%|0%|0%)
SP41 Atopostipes sp._MOT-201 (0%|0%|0%|0.02%|0.12%)
SP67 Atopostipes suicloacalis (0%|0%|0%|0.01%|0%)
SP151 Atopostipes sp._MOT-202 (0%|0%|0%|0.01%|0%)
SP3 Enterococcus gallinarum (0%|0.35%|0%|0.01%|0%)
SP114 Enterococcus faecalis (1.71%|1.37%|0%|0.07%|0.04%)
SP135 Lactococcus lactis (0%|0%|0.07%|0.01%|0%)
SP14 Streptococcus thoraltensis (0%|0%|0.13%|0.02%|0%)
SP25 Streptococcus thermophilus (1.25%|0%|0.00%|0%|0.01%)
SP158 Streptococcus koreensis (0%|0.00%|0%|0%|0%)
SP20 Streptococcus mitis (0%|0%|0%|0%|0.00%)
SP11 Streptococcus danieliae (0%|0%|56.48%|51.29%|0%)
SP106 Streptococcus acidominimus (0%|0%|0.48%|0.83%|0%)
SP168 Weissella cibaria (0%|0%|0.14%|0.01%|0%)
SP8 Weissella paramesenteroides (0%|0%|0.74%|0.13%|0%)
SP138 Lactobacillus johnsonii (0%|0%|0.08%|0.01%|0.22%)
SP148 Lactobacillus intestinalis (0%|0%|0.00%|0.00%|0%)
SP164 Limosilactobacillus fermentum (0%|0%|0.00%|0%|0%)
SP60 Lactobacillus reuteri_clade_938 (0%|0%|0.01%|0.00%|0%)
SP33 Limosilactobacillus reuteri (0%|0%|0.03%|0.01%|0.06%)
SP65 Lacticaseibacillus rhamnosus (3.78%|0.03%|0.00%|0%|0.01%)
SP42 Ligilactobacillus animalis (0%|0%|0%|0%|66.13%)
SP44 Ligilactobacillus murinus (0%|96.02%|0.21%|0.21%|0.04%)
SP104 Pediococcus pentosaceus (0%|0%|0.62%|0.29%|0%)
SP71 Levilactobacillus brevis (0%|0%|0.14%|0.11%|0%)
SP157 Lactobacillus brevis (0%|0%|0%|0.00%|0%)
SP75 Secundilactobacillus paracollinoides (0.12%|0%|0%|0%|0%)
SP39 Lactiplantibacillus plantarum (0%|0%|0%|0.04%|0%)
Antibiotic_TX
L._rhamnosus_TX
WT-F18971
KLK4KO
WT-F17722
substitutions/site
0
0.25
0.5
0.75