

Additional Table 2: Randomly selected genomes and read lengths used for calibration

Species	Readlength sizes used
<i>Aeropyrum pernix</i>	400, 500, 600, 700, 800
<i>Agrobacterium tumefaciens</i> Cereon	400, 500, 900, 1000, 1200
<i>Agrobacterium tumefaciens</i> Dupont	700, 1000, 1100, 1200
<i>Aquifex aeolicus</i>	400, 500, 900, 1100
<i>Archaeoglobus fulgidus</i>	500, 1100
<i>Bacillus anthracis</i> Ames	300, 800, 900, 1000
<i>Bacillus cereus</i> ATCC 10987	300, 900, 1200
<i>Bacillus cereus</i> ATCC 14579	300, 500, 600
<i>Bacillus halodurans</i>	500, 600, 1000, 1100
<i>Bacillus subtilis</i>	600
<i>Bacteroides thetaiotaomicron</i>	600, 800
<i>Bdellovibrio bacteriovorus</i>	300, 800, 900, 1100, 1200
<i>Bifidobacterium longum</i>	1000, 1100
<i>Blochmannia floridanus</i>	600, 1000
<i>Bordetella bronchiseptica</i>	300, 1000
<i>Bordetella parapertussis</i>	500, 600, 700, 900, 1200
<i>Bordetella pertussis</i>	500, 1100, 1200
<i>Borrelia burgdorferi</i>	300, 800, 1200
<i>Bradyrhizobium japonicum</i>	700, 900, 1200
<i>Brucella melitensis</i>	300, 700, 1000
<i>Brucella suis</i>	400, 500, 600, 700
<i>Buchnera aphidicola</i> APS	400, 1200
<i>Buchnera aphidicola</i> Bp	300, 400, 600
<i>Buchnera aphidicola</i> Sg	400, 500, 900, 1000
<i>Campylobacter jejuni</i>	900, 1100, 1200
<i>Chlamydia muridarum</i>	700, 1000
<i>Chlamydia pneumoniae</i> AR39	900, 1000, 1100, 1200
<i>Chlamydia pneumoniae</i> CWL029	400, 700, 1000
<i>Chlamydia pneumoniae</i> J138	300, 600, 800, 1200
<i>Chlamydia trachomatis</i>	300, 600, 800
<i>Chlamydomphila caviae</i>	400, 700, 800
<i>Chlamydomphila pneumoniae</i> TW183	400, 800, 900, 1200
<i>Chlorobium tepidum</i>	300, 500, 600, 700, 900
<i>Chromobacterium violaceum</i>	300, 600, 1000
<i>Clostridium acetobutylicum</i>	400, 600, 700
<i>Clostridium perfringens</i>	500, 800, 900, 1000
<i>Clostridium tetani</i>	500, 600, 700, 1000
<i>Corynebacterium glutamicum</i> 13032	400, 600, 700, 1000, 1100
<i>Coxiella burnetii</i>	1100
<i>Deinococcus radiodurans</i>	800, 900, 1100, 1200
<i>Desulfovibrio vulgaris</i>	700, 900, 1100
<i>Enterococcus faecalis</i>	800
<i>Escherichia coli</i> EDL933	700, 800
<i>Escherichia coli</i> K12	300, 800
<i>Escherichia coli</i> O157:H7	900, 1000

<i>Escherichia coli</i> O6	400, 500, 700, 1000, 1100, 1200
<i>Fusobacterium nucleatum</i>	700, 1100, 1200
<i>Geobacter sulfurreducens</i>	1100
<i>Gloeobacter violaceus</i>	300, 400, 800, 900
<i>Haemophilus ducreyi</i>	1200
<i>Haemophilus influenzae</i>	1100
<i>Halobacterium</i> sp. NRC-1	700, 900
<i>Helicobacter hepaticus</i>	400, 500, 700, 1100
<i>Helicobacter pylori</i> 26695	500, 800, 900, 1100, 1200
<i>Helicobacter pylori</i> J99	400
<i>Lactobacillus johnsonii</i>	600, 1100
<i>Lactobacillus plantarum</i>	400, 1200
<i>Lactococcus lactis</i>	1000
<i>Leptospira interrogans</i> 56601	700, 900
<i>Leptospira interrogans</i> L1-130	300, 500, 600, 1000
<i>Listeria innocua</i>	500, 600, 1100
<i>Listeria monocytogenes</i> EGD	400, 500, 800, 1200
<i>Listeria monocytogenes</i> F2365	600, 1100
<i>Mesorhizobium loti</i>	600, 1000
<i>Methanobacterium thermautotrophicum</i>	300, 400, 1200
<i>Methanococcus jannaschii</i>	500, 600, 800, 900, 1200
<i>Methanopyrus kandleri</i>	300, 400, 600, 700, 1000, 1100, 1200
<i>Methanosarcina acetivorans</i>	300, 800
<i>Methanosarcina mazei</i>	900, 1000
<i>Mycobacterium bovis</i>	400, 600, 800, 1100
<i>Mycobacterium leprae</i>	300
<i>Mycobacterium tuberculosis</i> CDC1551	300, 700, 900, 1000, 1100, 1200
<i>Mycobacterium tuberculosis</i> H37Rv	700, 1100, 1200
<i>Mycoplasma gallisepticum</i>	300, 1000, 1100
<i>Mycoplasma genitalium</i>	500, 600, 800, 1100
<i>Mycoplasma mobile</i>	300, 500, 800
<i>Mycoplasma mycoides</i>	300, 400, 800, 900, 1200
<i>Mycoplasma penetrans</i>	400, 500, 1200
<i>Mycoplasma pneumoniae</i>	300, 900, 1000, 1200
<i>Mycoplasma pulmonis</i>	500, 1200
<i>Nanoarchaeum equitans</i>	500, 600, 800, 1000
<i>Neisseria meningitidis</i> A	400, 700, 800, 1000, 1100
<i>Neisseria meningitidis</i> B	800, 900, 1100
<i>Nitrosomonas europaea</i>	800, 1200
<i>Nostoc</i> sp. PCC 7120	300, 700, 1000, 1100, 1200
<i>Oceanobacillus iheyensis</i>	300, 1000, 1100
<i>Pasteurella multocida</i>	500, 600, 800, 900
<i>Photobacterium profundum</i>	1100, 1200
<i>Photorhabdus luminescens</i>	400
<i>Phytoplasma</i> Onion yellows	300, 500, 900, 1100
<i>Porphyromonas gingivalis</i>	700, 800, 900
<i>Prochlorococcus marinus</i> CCMP1378	700, 800, 900
<i>Prochlorococcus marinus</i> MIT9313	600, 800, 900, 1000
<i>Prochlorococcus marinus</i> SS120	400, 1200
<i>Pseudomonas aeruginosa</i>	400, 500, 700, 1200

<i>Pseudomonas putida</i>	300, 400, 500
<i>Pseudomonas syringae</i>	400, 700, 800, 900, 1100
<i>Pyrobaculum aerophilum</i>	1000, 1100
<i>Pyrococcus abyssi</i>	400, 600, 700, 800, 1000, 1200
<i>Pyrococcus furiosus</i>	700, 800, 1200
<i>Pyrococcus horikoshii</i>	300, 900, 1200
<i>Ralstonia solanacearum</i>	300, 400, 500, 1200
<i>Rhodopseudomonas palustris</i>	300, 400, 500, 700, 800, 900, 1200
<i>Rickettsia conorii</i>	400, 800, 1000
<i>Rickettsia prowazekii</i>	300, 400, 1100
<i>Salmonella enterica</i>	300, 400, 800, 1000, 1200
<i>Salmonella typhi</i>	1000, 1100
<i>Salmonella typhimurium</i>	400, 500, 700, 800, 1000
<i>Shewanella oneidensis</i>	300, 400, 500, 600, 700, 1000
<i>Shigella flexneri</i> 2a 2457T	300, 500, 700, 1000, 1200
<i>Sinorhizobium meliloti</i>	300, 400, 700, 800, 900, 1000
<i>Staphylococcus aureus</i> MW2	1000, 1100
<i>Staphylococcus aureus</i> Mu50	400, 500, 700, 900
<i>Staphylococcus aureus</i> N315	300, 500, 1000, 1100, 1200
<i>Staphylococcus epidermidis</i>	500, 600, 700
<i>Streptococcus agalactiae</i> III	600, 900, 1100
<i>Streptococcus agalactiae</i> V	700, 1100
<i>Streptococcus mutans</i>	1000
<i>Streptococcus pneumoniae</i> R6	800, 900, 1200
<i>Streptococcus pneumoniae</i> TIGR4	800, 900, 1100
<i>Streptococcus pyogenes</i> M1	600, 800
<i>Streptococcus pyogenes</i> MGAS315	300, 500, 900
<i>Streptococcus pyogenes</i> MGAS8232	500, 600
<i>Streptococcus pyogenes</i> SSI-1	300, 500, 600, 700, 800, 1000, 1200
<i>Streptomyces avermitilis</i>	600, 1200
<i>Streptomyces coelicolor</i>	500, 600, 1100
<i>Sulfolobus solfataricus</i>	300, 600, 700, 1200
<i>Sulfolobus tokodaii</i>	800, 900
<i>Synechococcus elongatus</i>	300, 500, 800, 1200
<i>Synechococcus</i> sp. WH8102	400, 700, 900
<i>Synechocystis</i> sp. PCC6803	800, 900
<i>Thermoanaerobacter tengcongensis</i>	400, 700, 800, 900
<i>Thermoplasma acidophilum</i>	400, 800, 1100
<i>Thermoplasma volcanium</i>	500, 600, 1200
<i>Thermotoga maritima</i>	600, 900
<i>Thermus thermophilus</i>	600, 1000, 1200
<i>Treponema denticola</i>	300, 400, 500, 600, 700, 800, 900
<i>Treponema pallidum</i>	900
<i>Tropheryma whipplei</i> TW08/27	1000, 1100
<i>Ureaplasma parvum</i>	400, 500
<i>Vibrio cholerae</i>	300, 600, 1100
<i>Vibrio parahaemolyticus</i>	500, 600, 1100
<i>Vibrio vulnificus</i> CMCP6	400, 700
<i>Vibrio vulnificus</i> YJ016	700, 1000, 1100
<i>Wigglesworthia brevialpis</i>	500, 700, 800, 1100

Wolbachia sp. wMel	300, 400, 700
Wolinella succinogenes	300, 400, 500, 900, 1000
Xanthomonas axonopodis	500
Xanthomonas campestris	600, 900, 1000, 1100, 1200
Xylella fastidiosa 700964	300, 400, 1000, 1200
Xylella fastidiosa 9a5c	400, 500, 600, 700
Yersinia pestis CO92	800, 900
Yersinia pestis KIM	300, 400, 700, 800, 1000
Yersinia pestis Medievalis	300, 900
