

Figure 1

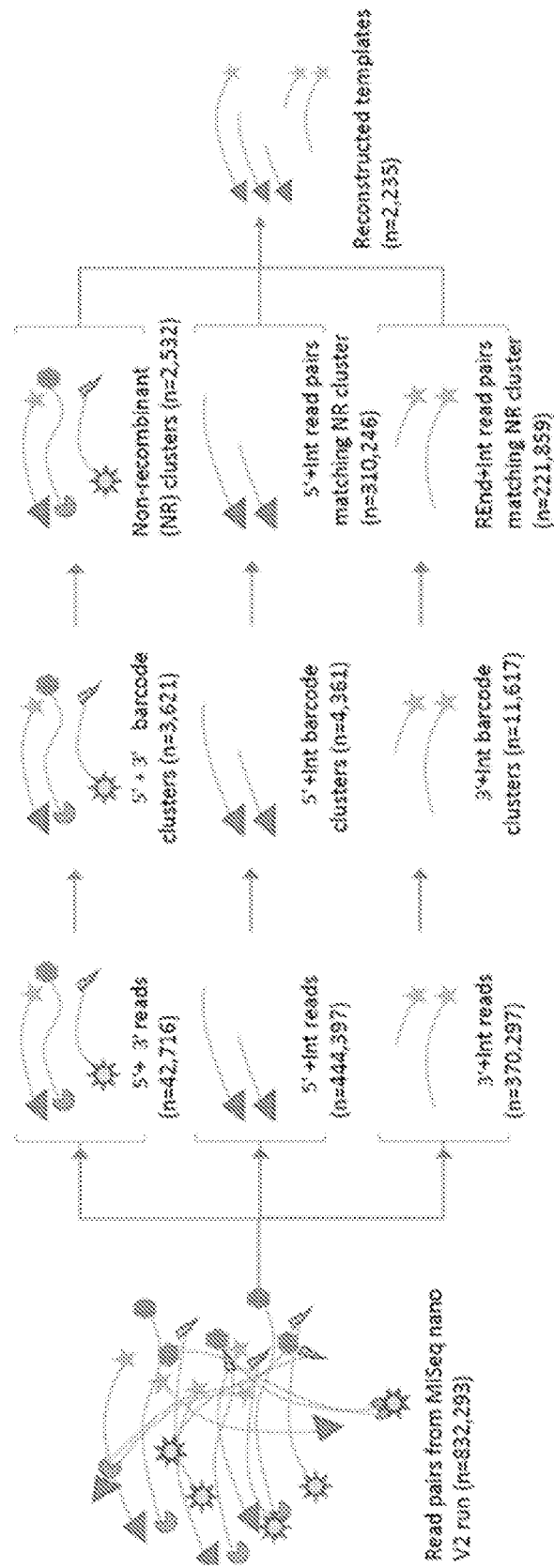


Figure 2a

Table 1: Primers used for 16S gene amplification and sequencing

Primer name	Sequence
Long_forward_1	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNGTGGCCGCGAGAGTTTGATCMTG GCTCAG
Long_forward_2	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNNTATTAAC TNCGAGAGTTTGATCMT GGCTCAG
Long_forward_3	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNCTAATGGC NNCGAGAGTTTGATCM TGGCTCAG
Long_forward_4	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNNAACCAGTCNNNCGAGAGTTTGATC MTGGCTCAG
Long_forward_5	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNGAACGGAGCGAGAGTTTGATCMTG GCTCAG
Long_forward_6	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNACTGAAGTNCGAGAGTTTGATCMT GGCTCAG
Long_forward_7	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNTTGGCTATNNCGAGAGTTTGATCM TGGCTCAG
Long_forward_8	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNTGCGGATTNNCGAGAGTTTGATC MTGGCTCAG
Long_forward_9	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNCCTCTGATCGAGAGTTTGATCMTG GCTCAG
Long_forward_10	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNCTCATGCGNCGAGAGTTTGATCMT GGCTCAG
Long_forward_11	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNTTCAGCGANNCGAGAGTTTGATCM TGGCTCAG
Long_forward_12	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNNGGATGCCANNCGAGAGTTTGATC MTGGCTCAG
Long_forward_13	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNCGGTCGAGCGAGAGTTTGATCMTG GCTCAG
Long_forward_14	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNNAAGACTACNCGAGAGTTTGATCMT GGCTCAG
Long_forward_15	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNAACGCTAANNCGAGAGTTTGATCM TGGCTCAG
Long_forward_16	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNGCCTACGCNNNCGAGAGTTTGATC MTGGCTCAG
Long_forward_17	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNTGACTGCTCGAGAGTTTGATCMTG GCTCAG
Long_forward_19	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNCAACCTTANNCGAGAGTTTGATCM TGGCTCAG
Long_forward_20	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNNGGAGGCTGNNNCGAGAGTTTGATC MTGGCTCAG
Long_forward_21	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNAATCGATACGAGAGTTTGATCMTG GCTCAG
Long_forward_22	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNACCAATTGNCGAGAGTTTGATCMT GGCTCAG

Figure 2b

Long_forward_23	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNCCTAATAANNCGAGAGTTTGATCM TGGCTCAG
Long_forward_24	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNGGATTAGGNNNCGAGAGTTTGATC MTGGCTCAG
Long_forward_25	ACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNNGCGTTACCCGAGAGTTTGATCMTG GCTCAG
Long_reverse_1	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNGTGGCCGTAGACGGGCGGTGTGT RCA
Long_reverse_2	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNNTATTAACNNNTAGACGGGCGGTG TGTRCA
Long_reverse_3	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNCTAATGGCTAGACGGGCGGTGTGT RCA
Long_reverse_4	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNAACCAAGTCNNNTAGACGGGCGGTG TGTRCA
Long_reverse_5	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNGAACGGAGTAGACGGGCGGTGTGT RCA
Long_reverse_6	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNACTGAAGTNNTAGACGGGCGGTGT GTRCA
Long_reverse_7	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNTTGGCTATNNNTAGACGGGCGGTG TGTRCA
Long_reverse_8	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNTTGGCGATTTAGACGGGCGGTGTGT RCA
Long_reverse_9	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNCCTCTGATNTAGACGGGCGGTGTG TRCA
Long_reverse_10	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNCTCATGCGNNTAGACGGGCGGTGT GTRCA
Long_reverse_11	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNTTACGCGANTAGACGGGCGGTGTG TRCA
Long_reverse_12	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNGGATGCCANNTAGACGGGCGGTGT GTRCA
Long_reverse_13	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNCGGTCGAGNTAGACGGGCGGTGTG TRCA
Long_reverse_14	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNAAGACTACNNNTAGACGGGCGGTG TGTRCA
Long_reverse_15	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNAACGCTAATAGACGGGCGGTGTGT RCA
Long_reverse_16	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNGCCTACGCNTAGACGGGCGGTGTG TRCA
Long_reverse_17	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNTGACTGCTNNTAGACGGGCGGTGT GTRCA
Long_reverse_18	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNATTGCCGCNTAGACGGGCGGTGTG TRCA
Long_reverse_19	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNCAACCTTANNTAGACGGGCGGTGT GTRCA

Figure 2c

Long_reverse_20	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNGGAGGCTGNTAGACGGGCGGTGTG TRCA
Long_reverse_21	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNAATCGATANNTAGACGGGCGGTGT GTRCA
Long_reverse_22	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNACCAATTGNTAGACGGGCGGTGTG TRCA
Long_reverse_23	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNCCTAATAANTAGACGGGCGGTGTG TRCA
Long_reverse_24	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNGGATTAGGNNTAGACGGGCGGTGT GTRCA
Long_reverse_25	CTCGGCATTCTGCTGAACCGCTCTTCCGATCTNNNNNNNNNNGCGTTACCNNTAGACGGGCGGTG TGTRCA
PE_1	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACG
PE_2	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCG
Caporaso_forward_1	AATGATACGGCGACCACCGAGATCTACACAACCACTATGGTAATTGTGTGCCAGCMGCCGCGGT AA
Caporaso_forward_2	AATGATACGGCGACCACCGAGATCTACACAACGCTAATATGGTAATTGTGTGCCAGCMGCCGCGGT AA
Caporaso_forward_3	AATGATACGGCGACCACCGAGATCTACACAAGACTACTATGGTAATTGTGTGCCAGCMGCCGCGGT AA
Caporaso_forward_4	AATGATACGGCGACCACCGAGATCTACACAATCGATATATGGTAATTGTGTGCCAGCMGCCGCGGT AA
Caporaso_forward_5	AATGATACGGCGACCACCGAGATCTACACACCAATTGTATGGTAATTGTGTGCCAGCMGCCGCGGT A
Caporaso_forward_6	AATGATACGGCGACCACCGAGATCTACACACTGAAGTTATGGTAATTGTGTGCCAGCMGCCGCGGT AA
Caporaso_forward_7	AATGATACGGCGACCACCGAGATCTACACATTGCCGCTATGGTAATTGTGTGCCAGCMGCCGCGGT A
Caporaso_forward_8	AATGATACGGCGACCACCGAGATCTACACCAACCTTATATGGTAATTGTGTGCCAGCMGCCGCGGT A
Caporaso_forward_9	AATGATACGGCGACCACCGAGATCTACACCCTAATAATATGGTAATTGTGTGCCAGCMGCCGCGGT A
Caporaso_forward_10	AATGATACGGCGACCACCGAGATCTACACCCTCTGATTATGGTAATTGTGTGCCAGCMGCCGCGGT A
Caporaso_forward_14	AATGATACGGCGACCACCGAGATCTACACGAACGGAGTATGGTAATTGTGTGCCAGCMGCCGCGGT AA
Caporaso_forward_16	AATGATACGGCGACCACCGAGATCTACACGCGTTACCTATGGTAATTGTGTGCCAGCMGCCGCGGT A
Caporaso_forward_18	AATGATACGGCGACCACCGAGATCTACACGGATGCCATATGGTAATTGTGTGCCAGCMGCCGCGGT AA
Caporaso_forward_20	AATGATACGGCGACCACCGAGATCTACACGTTGGCCGTATGGTAATTGTGTGCCAGCMGCCGCGGT A
Caporaso_forward_22	AATGATACGGCGACCACCGAGATCTACACTGACTGCTTATGGTAATTGTGTGCCAGCMGCCGCGGT A

Figure 2d

Caporaso_forward_24	AATGATACGGCGACCAACCGAGATCTACACTTCAGCGATATGGTAATTGTGTGCCAGCMGCCGCGGTA A
Caporaso_reverse_1	CAAGCAGAAGACGGCATAACGAGATAACCAAGTCAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_7	CAAGCAGAAGACGGCATAACGAGATATTGCCGAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_8	CAAGCAGAAGACGGCATAACGAGATCAACCTTAAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_9	CAAGCAGAAGACGGCATAACGAGATCCTAATAAAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_15	CAAGCAGAAGACGGCATAACGAGATGCCTACGCAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_16	CAAGCAGAAGACGGCATAACGAGATGCCGTTACCAAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_17	CAAGCAGAAGACGGCATAACGAGATGGAGGCTGAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_23	CAAGCAGAAGACGGCATAACGAGATTGGCGATTAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_24	CAAGCAGAAGACGGCATAACGAGATTTAGCGAAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_reverse_25	CAAGCAGAAGACGGCATAACGAGATTTGGCTATAGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Illumina_E_1	AATGATACGGCGACCAACCGA
Illumina_E_2	CAAGCAGAAGACGGCATAACGA
Caporaso_read_1	TATGGTAATTGTGTGCCAGCMGCCGCGGTAA
Caporaso_read_2	AGTCAGTCAGCCGGACTACHVGGGTWTCTAAT
Caporaso_index_read	ATTAGAWACCCBDGTAGTCCGGCTGACTGACT

Figure 3

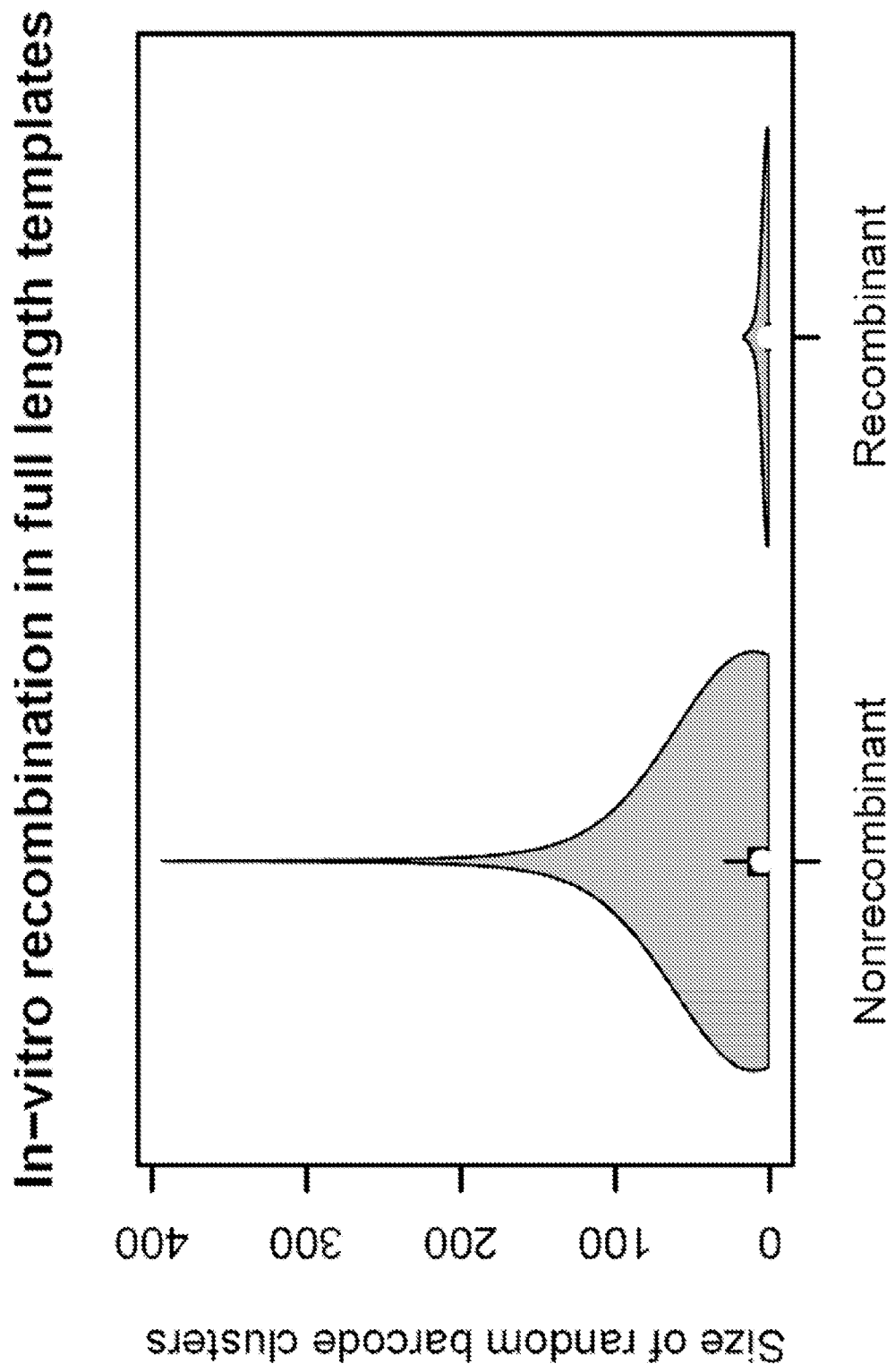


Figure 4

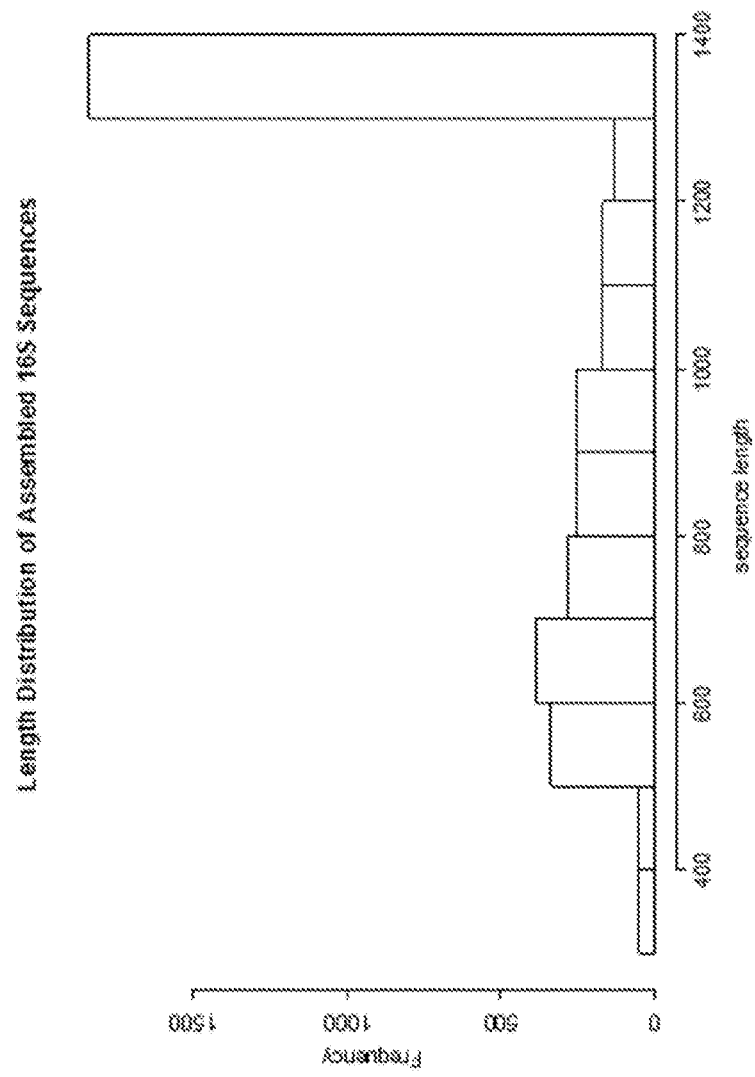


Figure 5

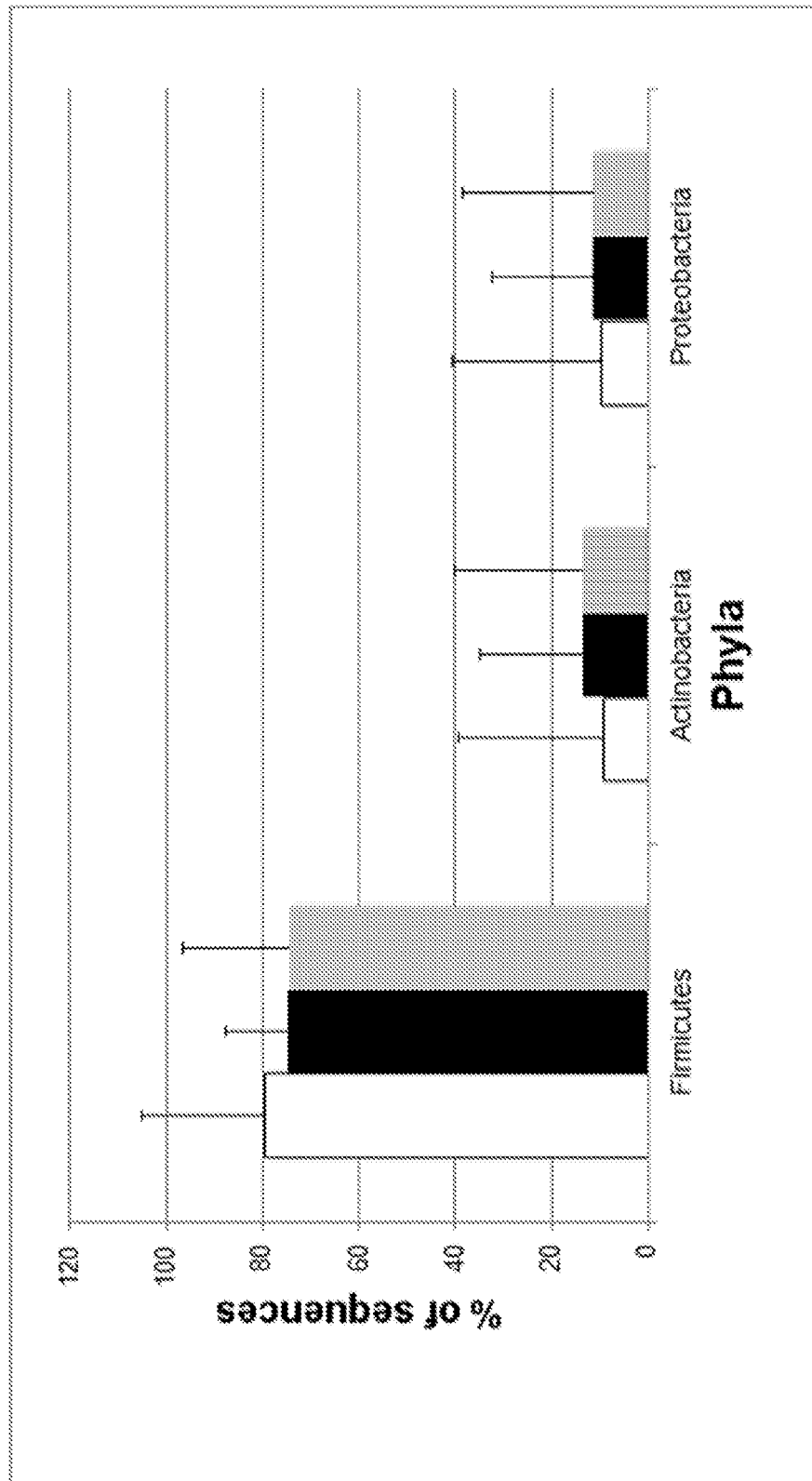


Figure 6

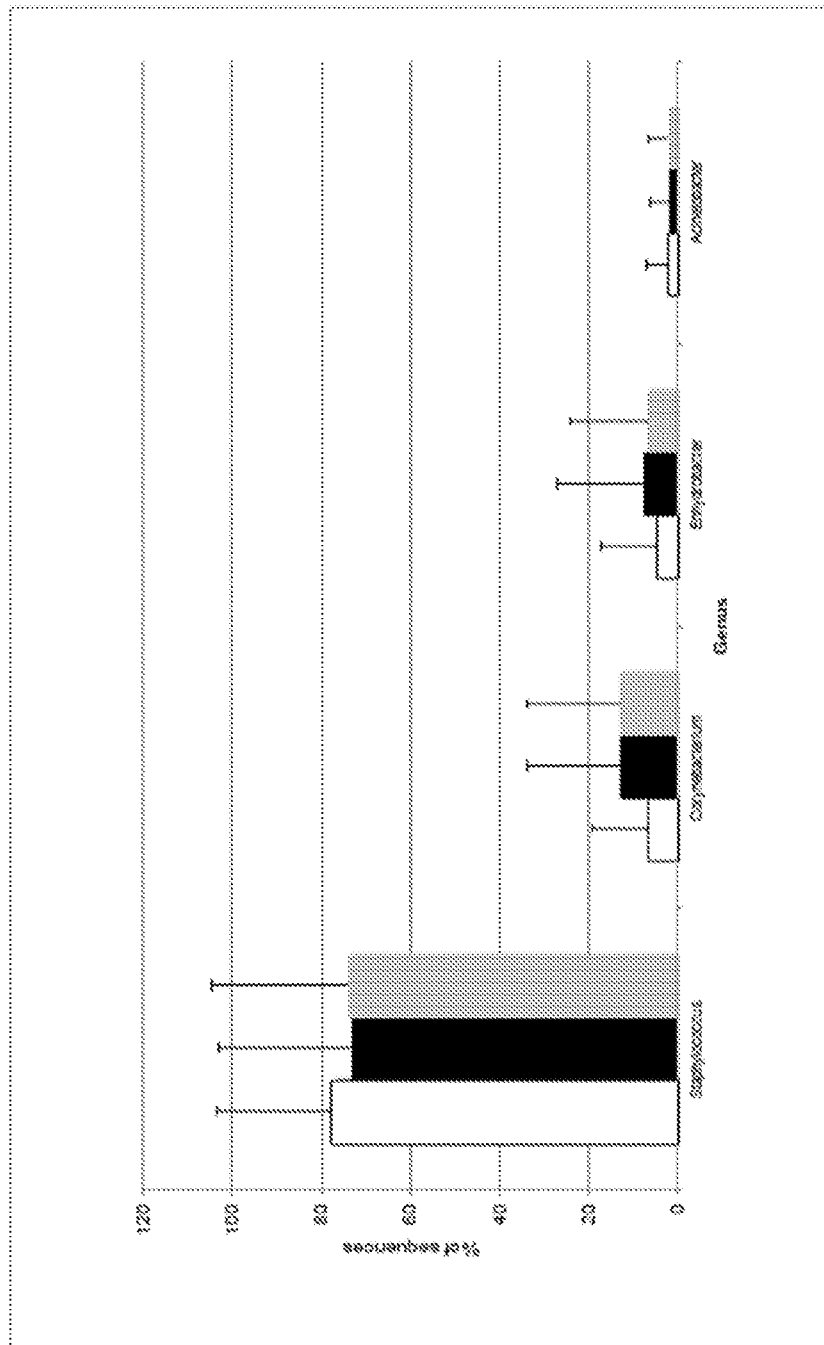


Figure 7

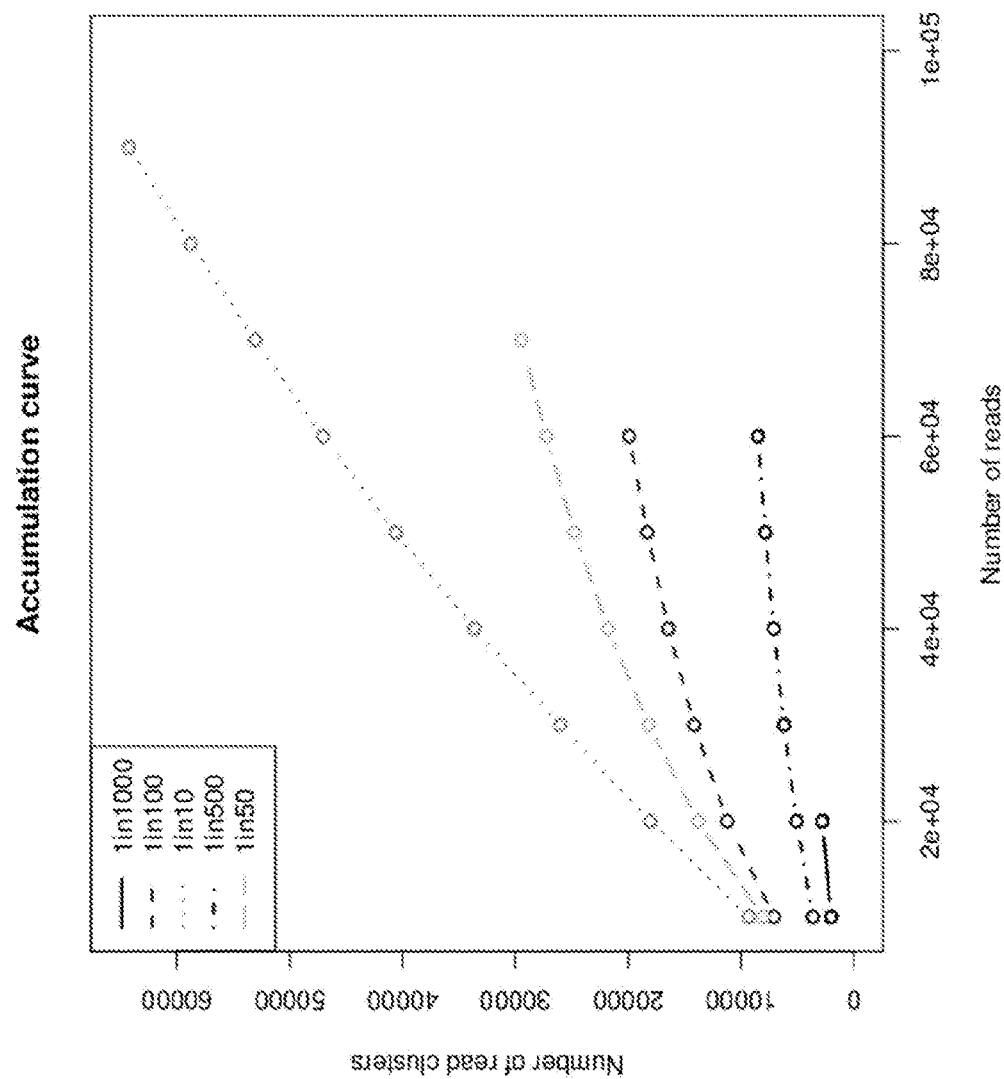


Figure 8

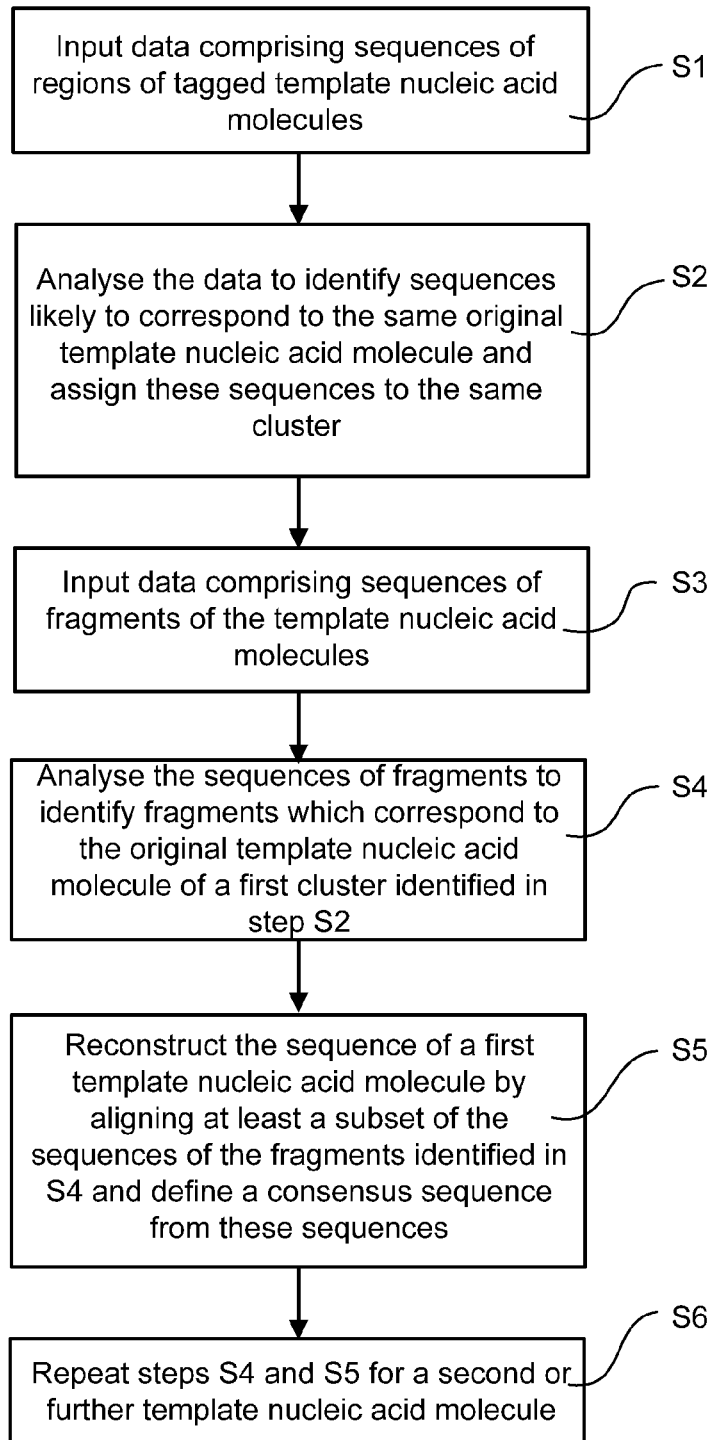


Figure 9

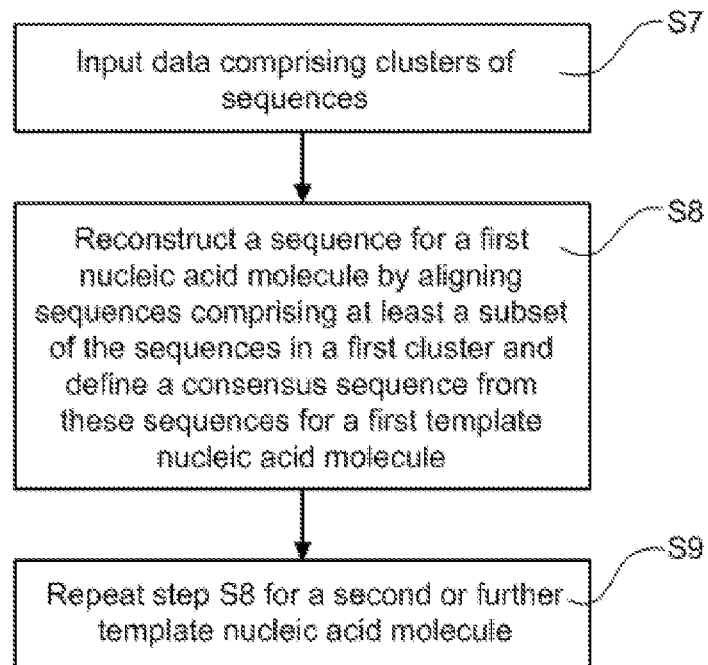


Figure 10

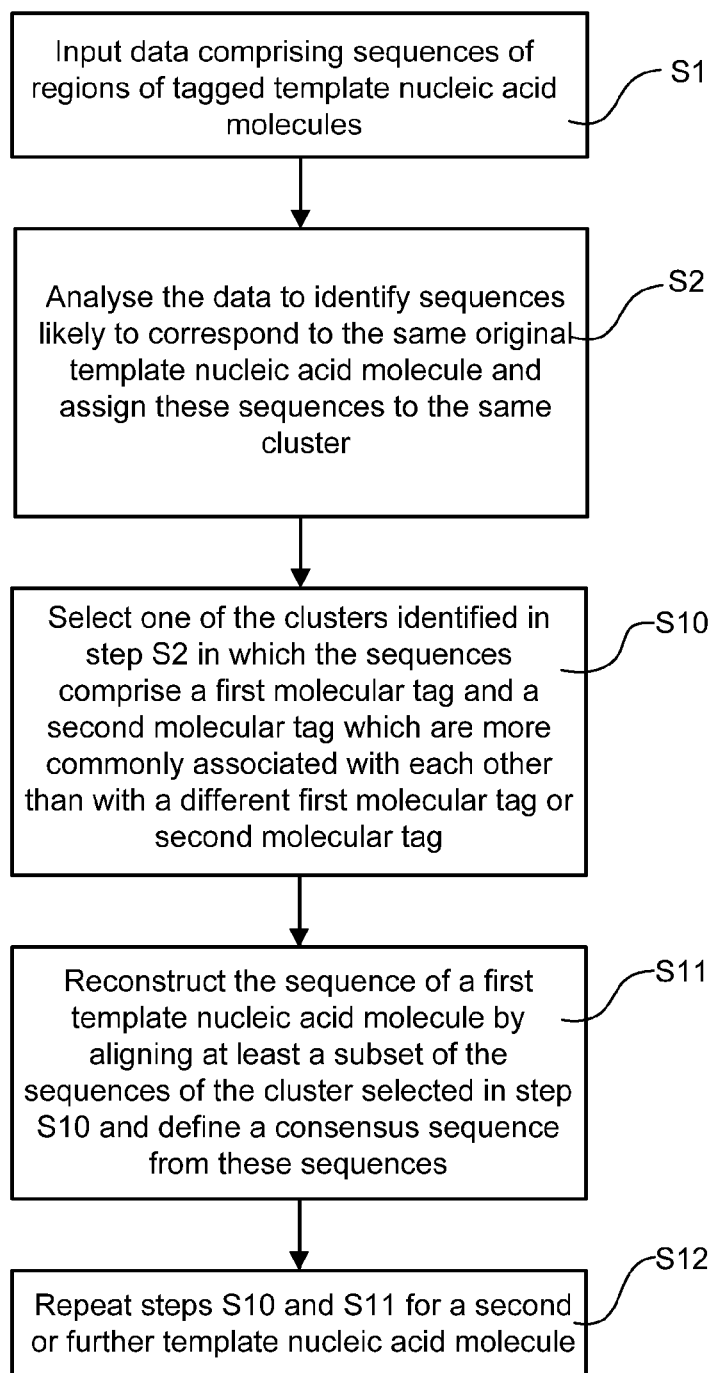


Figure 11

