

Supplementary Figure S1a

70HRT₁₄ Population

5' gggaaaagcgaaucacacaaga. . . (70HRT) . . . gggcauaagguuuuuuuuccaua 3'

SIX

70.03 AGATGAATCACAGCCGCTCAACGAGATGCGAAGGAAAACGGGATAACCAAATAGATGGAACGAAGACC
70.04c **AGATGAATCACAGCCGCTCAACGAGATCCGAAGGAAAACGGGATAACCAAATAGATGGAACGAAGGCC**
70.32 **AGATGAATCACAGCCGCTCAACGAGATCCGAAGGAAAACGGGATAACCAAATAGATGGAACGAAGGCC**
70.54 AGATGAATCACAGCCGCTCAACGAGATCCGAAGGAAAACGGGATAACCAAATAGATGGAACGAAGGCC
70.76a **AGATGAATCACAGCCGCTCAACGAGATCCGAAGGAAAACGGGATAACCAAATAGATGGAACGAAGGCC**
70.42 AGATGAATCACAGCCGCTCAACGAGATCCGAAGGAAAACGGGATAACCAAATAGATGGAACGAAGGCC

FIVE

70.50 TGAAAAATGCAGACCAAGAAAATCCGAGGTGATAAACGGGAAAACACAGAGAAACA-ATAACGTTGCAAGTC
70.5c **TGAAAAATGCAGACCAAGAAAATCCGAGGTGATAAACGGGAAAACACAAAGAAAACACATAACGTTGCAAGTC**
70.52 TGAAAAATGCAGACCAAGAAAATCCGAGGTGATAAACGGGAAAACACAAAGAAAC-AATAACGTTGCAAGTC
70.59 TGAAAAATGCAGACCAAGAAAATCCGAGGTGATAAACGGGAAAACACAAAGAAAACACATAACGTTGCAAGTC
70.79 TGAAAAATGCAGACCAAGAAAATCCGAGGTGATAAACGGGAAAACACGAAGAAAC-TATAACGTTGCAAGTC

70.22 TGAACAAACGCGATGAACATTAGGCTATCCTCAGGCGGAGAGGGACAAAACGCACCTATCCCTAAGGC
70.33 **TGAACAAACGCGATGAACATTAGGCTATCCTCAGGCGGAGAGGGACAAAACGCACCTATCCCTAAGGC**
70.34a **AACAAACGCGTAGAACATTAGGCTnCTCAGGCGGAGAGGGACAAAACGCACCTATCCCTAAGGC**
70.65 TGAACAAACGCGATGAACATTAGGCTATCCTCAGGCGGAGAGGGACAAAACGCACCTATCCCTAAGGC
70.76b **TGAACAAACGCGATGAACACTAGGCTATCCTCAGGCGGAGAGGGACAAAACGCACCTATCCCTAAGGCAC**

FOUR

70.30 AGCGCGGCACCCAAAATCGAAATCCGAAGGCGAACGGGAGAATGCGACCAAAGATACCCTGTGAATGGC
70.40 **AGTGCGGTACCCAAAATCGAAATCCGAAGGTGAACGGGAGAATGCGACCAAAGATACCCTGTGAATGGC**
70.45 **AGCGCGGCACCCAAAATCGAAATCCGAAG-CGAACGGGAGAATGCGACCAAAGTAAACCCTGTGAATGGC**
70.72 AGCGCGGCACCCAAAATCGAAATCCGAAGGCGAACGGGAGAATGCGACCAAAGATACCCTGTGAATGGC

THREE

70.17 **CCCTCCTCGTATG-ACGCTAA-CTGAGAATCCGAAGTCCAACGGGAGAGA---GGACACTTATGACGCGGCGCG**
70.27 **CCCTCCTGTGATG-ACGCTAA-CTGAGAATCCGAAGTCCAACGGGAGAAA---GGACACTTATGACGTGGCGCG**
70.38 **CCCTCCTGTGATGGCGCTAAACTGAGAATCCGAAGTCCAACGGGAGAAAAGGACACTTATGACGTGGCGCG**

70.62 TTGGAAAAACCGAGATGAATCCGATAAGCAACGGGAGAATGCTTAAAGATGGGATACAACCGATGCTCAC
70.64 TTGGAAAAACCGAAATGAATCCGATAAGCAACGGGAGAATGCTTAAAGATGGGATACA-CCGATGCTCAC
70.80 TTGGAAAAACCGAAATGAATCCGATAAGCAACGGGAGAATGCTTAAAGATGGGATACAGCCGATGCTCAC

70.24 GACGCAACCGAGATCATCCCAAGGAGAAGGAGAAAACCAACGCATGGAGTTGATTAACGTGCCAGCAC
70.35 **GACGCAACCGAGATCATCCCAAGGAGAAGGAGAAAACCAACGCATGGAGTTGATTAACGTGCCAGCAC**
70.67 GACGCAACCGAGATCATCCCAAGGAGAAGGAGAAAACCAACGCATGGAGTTGATTAACGTGCCAGCAC

70.26 **TGCTAAACCAAGTAAGAATCCGTGAAGTCACAGCACGGGATAAAAAGTGTGTCAAAACGCCATAGCT**
70.37 **TGCTAAACCAAGTAAGAATCCGTGAAGTCACAGCACGGGATAAAAAGTGTGTCAAAACGCCATAGCT**
70.69 TGCTAAACCAAGTAAGAATCCGTGAAGTCACAGCACGGGATAAAAAGTGTGTCAAAACGCCATAGCT

70.29 **TCAGTGTGTGCACGCAAAACACCACACGAGAGATAGAAATCCGGGAGGCTCGCACCTGGGACATACACCGC**
70.39 **TCAGTGTGTGCACGCAAAACACCACACGAGAGATAGAAATCCGGGAGGCTCGCACCTGGGACATACACCGC**
70.71 **TCAGTGTGTGCACGCAAAACACCACACGAGAGATAGAAATCCGGGAGGCTCGCACCTGGGACATACACCGC**

TWO

70.08 CGAGACAAGTACCGAAAAAGAGATCTGGCAGTGTCAACAACAGGAAAAAGACACGACGAACACGCCGCAC
70.13 CGAGACAAGTACCGAAAAAGAGATCTGGCAGTGTCAACAACAGGAAAAAGACACGACGAACACGCCGCAC

70.12 TATCCGAGCCAAAACGGGAAAAGATGGGAAAAATGGAATTAGTCTCTAACCCACGCGGAAAACCAACGT
70.16 TATCCGAGCCAAAACGGGAAAAGATGGGAAAAATGGAATTAGTCTCTAACCCACGCGGAAAACCAACGT

70.21 **CTGTGCTGGCTAGACTATCCGAAAAGTTGAATCCGAGGCGAAAACGGGAAAAGACCGCGACCCACACACC**
70.53a **CTGTGCTGGCTAGACTATCCGAAAAGTTGAATCCGAGGCGAAAACGGGAAAAGACAGCGACCCACACACC**

70.31 **CTAACCGCCATCTACGCGATCTGACACAAAACAAACGAGAACTCATCCGAGGCCTAACGGGACAAAC**

70.41 CTACGCGCCATCTACGCGATCTGACACAAACAAAACGAGAACTCATCCGAGGCCCTAACGGGACAAC
70.36 CCACGCCATACCGAACGAAGATCCGAATCGTCACGGGAAAAGACGAAAAAAAGCAACCGAAATGACCGC
70.68 CCACGCCATACCGAACGAAGATCCGAATCGTCACGGGAAAAGACGAAAAAAAGCAACCGAAATGACCGC

70.48 TGAACGTACGACGTAGCTAGACCAAGATCCGAAGATGCACGGGAGAAGCATCAATACCACAGTATGGCC
70.70 TGAACGTACGACGTAGCTAGACCAAGATCCGAAGATGCACGGGAGAAGCATCAATACCACAGTATGGCC

70.23 ATGATTGCGACTTCGAACGAAGATCCGAGACGCGACGGGAGAACCGGAAGGAAAACACCGAAATGCAACGT
70.34b ATTGCGACTTCGAACGAAGATCCGAGACGCGACGGGAGAACCGGAAGGAAAACACCGAAATGCAACGT

ONE

70.01 ACGTTTGTGCACGGATGCCACGGTTCGCACGAAACCTTGTGTGGGATAGCGCGAATACTGACGAGTGTGC
70.02 TGAACAGCATAATGCCACGGCACAATACCAAAGACAGATCCTGAAGCAGAGCACAGGGACCAACGC
70.04 ATTGCGACTTCCAAAAGAGATCCAGGGAGCAGGCGCACTGGGAGAAAACTGCCTGCAGAAAAATGGTAC
70.05 TCCGAGGCAGAACGGGAAAACTGCGAAGTAACTGTGGAATCCGTGACCTTTGACGTGAAAAACCGCGA
70.06 CCTACTGGTAAAGCGGCTTGGCAGATTACCGCCGATCCATGTTACTGATCCGAACGCAACGGGATAATGC
70.07 TGTAAGTATAGCCGTTTTCGAATGTAAAACCGGAAGCTCCGAACCGAGAAAAAGACGGAACAACATGCGA
70.09 GTGGAGAATCGCCTATAATAACCCGAGAAATCGCATCCGAAGGTGAACGGGAGAATCACCGACCTCGATC
70.10 AATATCCGTTTACCATTCCGGGAAAAATGGGTTGGTAAAAATACTTGACCCCGAAGGACGACGAATCCGGAC
70.11 CCTCGGGTCCAGCAAAATCCGAAGGAAAAACGGGATAACCAACAACAATGAAAAACAGCCAGTAAGCGT
70.14 TCCGACGTACGACGGGATAACGTTCAAAGCAAGGGACTTTAAAGTAAACCGCTGCCGATGATCAACGCAT
70.15 TCACTTGAAAGACGCAGACCTACGAACCCAGGAGATAAGGGGAAAACTCTGGAACCAACCGGTAGTC
70.18 AACCAAGGTGAAAAATGGGAAAAACACATAAGGGAGTGAAATAGACGGTCTAAACCAACTGGCGAAC
70.19 ACCGAATAAACGAGAAAAACAATGTGTAACACACCGCTACTACCGAACCAAGAGGAAAGAAAGCGTCCGT
70.20 CTTTTTCGCTTGTAACCCCAAAACGAAATCCGAAAGGCAACGGGAAAAATAGCCTAGACCATGTCCGCACG
70.27 CCCTCCTTGTATGACGCTAACTGAGAAATCCGAAGTCCAACGGGAGAAAGGACACTTATGACGTGGCGCG
70.28 ACCGGACGGGTGAGAACCGAGACAAACACCCACCAAGAGAAAAATGTATCCACTACCCAGACGGCCTCGAT
70.43 ATGAACGCAACCCAAAGCTTAACCGAGGTGTAAACGGGATAACACAAGTTGGAAGGAAGATCAGGGAGCA
70.44 CCCGCACCAATGAAGATCCGAGACCAACGGGAAATGGTCAACCAAGGAATAGATGCACGCCTCACAT
70.46 GATAGCTTAGACCACAAAATGGGACGAGCAAGGGGAAAAATGCTCAAAGGAACCCGAAACTGAGTGTGCAC
70.47a TGGCGCATGCCAAAAGCTCCGAGCCGTTAACGGGAAAAAGACGGAGTCAAGGCTGCCT
70.47b TCGCCTGCCAAAAAATCCGCGCCGTAACGGnCCAAGCCCGAAGATAAAGGCTGCCTAATACACAGCGCA
70.49 AGATAAAGTGATGGATTGCTGAAGTCTCTCAACGATCCGATGACAACGGGAAAAATGTCAAAAACGACC
70.53b NNGNNNTNGNATCCNAGGCAGAACGGGACAATCNGNNNNNAAGAGGTGTTAANCCTATTCCTGAT
70.55 TACATTACAGAGGTGAGTATCAAAAATGTTGAAACGTATTCTCAGGAAATCCCAGGCCTAAGGGGACAAC
70.57 ACGCGACCCAGTGAATCCGAAGCTTGACGGGAGAACAAGCAAGACGTGATTAAGCACCACCAATGCCAAT
70.58 ACCAAATCCCGAATACAAATCCGAACGCTAACGGGACAATTCGAAATGGAACATACGGGCTGGTTGAA
70.60 CACCATACCAATGGCATCGCTATGATCGAGCGCTACGCTAGACCAATCTGGAGCTGACCACAGGGAACG
70.61 CCCAGAACTAACCATATCCGACAGCGAAACGGGAAAAATGAGGCAGAGCCGAACCAAAATCTGTGTGCAC
70.63 CGCAAAACCACTCGATCCGAAGGAAAAACGGGATAACCAAGATGGGAAACAACCTTACACACCGAATCAC
70.73 GATTCTAACCTGAGATGAATCCGAAGCAAGAGCCGGGAGAAAACTTGCAAGACTACCAAAATGTCGTTG
70.74 GCGAAAGAACTTAGTGTGATAGCATTGACCAACCAATGACAATCCGAGCCGCCACGGGATAC
70.75 CTCTTACCAAGACTGATCCGAAGGCAACGGGACAAAAGCCAAAGGAAAAACCTAAGTACGCGAGACTGC
70.77 ATCCGAAGGCAACGGGAAAAATCAGTCCGAGAAAAAGGAGAACACCTTAACTCACTGTGTACGCAA
70.78 CGCGAACGATAAATCCGAACGAGGACGGGACAAAACCTGAGCAATGATACCTAATCTCCCTACCATCGCTGAA

Supplementary Figure S1b.

80HRT₁₄ Population

5'gggcuaaagguuuuuuuuccaua. . . (80HRT) . . . uugauucggaugcuccgguagcucaaccug 3'

THREE

80.08 AGCCGTTAAGCAGTGTCCGCTACCTTCATCCGTTGGCGATCGGGAGAAATCGCAAGAGGAGGCACCGCGCTCCGTATCAT
80.72 A-CCGTTAAGCAGTGTCCGCTACTTTCATCCGTTGGCGATCGGGAAAAATCGCAAGACGAGGCACCGCGCTCCGTATCGT
80.90 AGCCGTTAAGCAGTGTCCGCTACTTTCATCCGTTGGCGATCGGGAAAAATCGCAAGACGAGGCACCGCGCTCCGTATCAT

TWO

80.02 TGCAAGCCTGATGATCCGAAGGTGACGGGAGAACACCAAACAGTATGCTAATCCACCATCCGAAACCGACTGCTACTA
80.105b TGCAAGCCTGATGATCCGAAGGTGACGGGAGAACACCAAACAGTATGCTAATCCACCATCCGAAACCGACTGCTACCA

80.46 GCTCGCCAATCCGTTTCCAGCAGTCTTCGGGATAAAACACTGCTACTCGAGGCCGTTGCATTCCGGCCATTACTCCA
80.100 GCTCGCCAATCCGTTTCCAGCAGTCTTCGGGATAAAGCACTGCTACTCGAGGTCGTTGCATTCCGGCCATTACTCCA

80.55 ATGGCTCACCACAAGGGGAACGTTGATGAAATAGAGTTTATCCCTTGGACTCACGCCGGCGTGTCCACACAATCCA
80.65 ATGGCTCACCACAAGGGGAACGTTGATGAAATAGAGTTTATCCCTTGGACTCACGCCGGCGTGTCCACACAATCCA

80.09 ACCGCATGGAATAAGTTCAACACCCCACTACGATCTGTGCGGCCAACACAGGGAGAAAACCGGCCAAGAGGAGGCTAC
80.87 ATCGCATGGAATAAGTTCAACACCCCACTACGATCTGTGCGGCCAACACAGGGTAAAAACCGGCCAAGAGGAGGCTGA

ONE

80.01 . . . TGCGAAGAACCCGTAGTTAAACTAGATTTACAAGGAGAGCGGATCGAGGGAAACGGAGAGA
80.05 CAGAAATCGAATATCGAAGCTCATTGACCCTCAATCCGATGCGAGATGGGATAAACTCGCACCCCTCCGCCCCACGACT
80.07 TCGCACATAAAGTGGATGATGCCACCCTTCTGTAAATATCCGTTACTGTGCCTCGGGATAAAGGCGCTACGAAGT
80.10 CCNNTGTACCTTCCGAGTTTGGTAACGTGTTTCTGCCAGTAGTTCTTACAAATGAAGTCCGAGGGTAGATCGTA
80.13 CTCCACATTCACTGCTGCACAAAATCCAAAAAACACATCCTCGAAAGCTCATAATTGGGAATGCATATGTCAAGGTGGGA
80.15 GGCACAGAAATACCATAGCCGAAAATCCAGGGCAAAGGGGACAAGTCTGCATTATGTCTACTGCGATCGAAAAGT
80.16 ACGGTGGTTAGCATACACTCAAAAATCTTCAAGCAAGTCTGGCATAAAGCCCTCATACACTCCCTCGGTTTCCC
80.17 TCGACCCTCACTGTAATCCGTTTTCGTTGGCTTCGGGAAAAAAGCCGGCACATGGCCCGACGTGTCATCAAATCAAGTC
80.18 TCTGGCATCGTACAATGAGTCTGGCCAGATTAAGTATCGGAAAGCTGCATCGGGACACAAGCACAGCGATAATGAG
80.21 AGCCTAGTACCCTAACGTGATCCGTTCTGTATAGTTCGGGAAAAACTATAACAATAAATACCGCTATATTTCA
80.28 GGGTGAAGGCACGTGTTAAATCAAGTCTGATGGAAAGAAGGAAAACCTAGGAATGGGACCTCCAGTGACAATGAAGTGC
80.30a AGCCAACCGCTAATCCGATCGTCCGACGGGAAAATGGGACGGCAATAGTTTACCnCTGAGCAAGTATTTAAGTAAGTAGTT
80.30b TGTCAGCGAA TCTACGACCAC'TTTCAGTGGACGATAGGTTACATGTTCCGTTACGTGTTTCGGGAAAAAATCGGCTCG
80.31 TGAACTCATCCAGTAAATCCCACTCGCGGAAAGTGGGAGCAATAGAAATTCGCGCCTATCTCAATACGGGATCAGTCTATG
80.32 TCCCTAGCATCCTTGACCAATACCGTTTCGGAGGCCAACAGAGAAAACCTCCACGAGCAGGAGCACGGCATGCGTATAC
80.33 GCGTCGTATTGCGGTTGAGAGAAGACTTGACACAAAGACATGGATCCGATAGCCAAAACCATGACCCAATCCGTTACAA
80.34 GCCAAAACGATCCGGCCGCGAGACAACCGTGAAAACCCGTTACCTGGCTGTACCGACACTTCGATAGTCAACATTAGACG
80.35 CGTATAGTCCAAAACAAGTATCCGATGTCCACGGGAGTAAGGACCGATGTGCGGCTGAAGCACCGAATTGATTGTATG
80.37 CGCACCGCACACCGCACCTCAAATCCGTTCCGTAATTCGGGATAAATTTACGACTTTTACTACCAACACGATTACCA
80.39 CGGTCCAATTAATCCGTTTTCGATCGGGAAAAATCGTGGCACCGGGCCCTAAGTTTCTTCGCTGGACACTTTCAGT
80.49 TGCTTATCGAACATCCGTTTGGCTGGCGTCGGGAAAAATGCCACGCGAGTCTGGTGCATCGTGTGCACACGAGAATCTA
80.51 TCCCAATCTCTGTTATCCGGCGGAGAGGACACCGGGAGAAAAAAGCTCTCACGACGCGACTGGCACACGGATATAAGGTT
80.52 GCGACCCAGACTGATCCGTTTGGGGCTCGGGATAAAGTTCGCGCCATTCACCGGACTCGCTCATCTACAAAAG
80.54 CAGTCCATCAAATCCGTCAGCCGTAGACGGGAGACAAAATCGGCATGACCCAAGAAAAAGAGAGATGTGAAAAGT
80.57 TGCTTCTGGGATCCGATCGCAACGGGATAATGGCAACTTGACCACGCTAGGTAAGATCAAATTTCCCTTCTAT
80.59 ACGCCAACGACACAAGTCTGGCTGGTCCAAACAGGACAAGACCCACATAAACGCTTACCTTCTGTGACAACCTAG
80.60 GCGTCGGGGCCCTCATCTGAAAATCCAGCGCACAGGCACGACCCCTTCAGGACATGAAAACCTGTGCTATAAGATGCGA
80.61 CGGAAGAGGCCGACCGCAAGTTGTAAGTGTCTGAGAGTGGCTGGTGCATGAATGGAGTATGGGCTTTGGAGTT
80.62 GGCCTTATAGACCTCTCTAATCCTGGTAGCATGGACCAGTGGAGAAAACCTCCATGTTTAACAAAAACCTTAACGCGA
80.63 GCCCACTCCACTCTCGACCGTTTCTGGGTTCTTCGGGAAAAAAGCAACCTACTATTGACTATCGACGAAGATCTGTT
80.64 TTCnAGCnTnTGATCCGAAnnnCACnGAGAAnnnCAAACAAnAAnATGCATATATTCGAAACCGmTTGTGATGAnnn
80.66 CGGTGATGCTGACGAACATAAATGATCCCGTAATGACACACACCGGCGAGCCAAGTTGTCTCCCTCCTATTCGACTG
80.67 CTGTCTGTCTACCTCCTTACGTTTACCCTTAACTTTCGGGAAAAAAGTTCGAGCTGCATGTTACCAGGACAACATC
80.68 CCGACAAAACGACACAGATCCTGTGCCAGTGCCAGGCGAGAGTGTGAGAAAAAGAGTTTGGAGCGAAGTATGCG
80.69 CCACGATGATTTGGAGGTACGCGGGATGGTGGTAAGGATAACCGTTGGTTCATCGGGATAAATGGCAACGCTGC
80.70 GCCTAGGCCAATAATTAGTCCGCCACTACGTCGCCCTCTGTTCATCGTCAAACCCACCTGAGTTTATGTTACTTCTG
80.71 TCATGTTGCGCGCAAACGGTATCACTCAAGTTGCTTCGGCACTTCAACGATGCACCTTTCGAAATCCTGGTCAAGAG
80.73 GAGCGCAACATGATGATGCAATACCGACTCGCCACCAAGATCCTCACCGTACAGGAGGGACAATTTGACGTGAGAC
80.74 TTGGTCTATACGATGTCTCTCCCATCCGTTTGTCTTCGGGACAAAGAACTAAAATGGAGCTATTCACCCAACG

80.75 TCCTCACCCAAATTGATCCGACGCGGACGGGACAATGCGCAACCTGCTACCACACCGTTCTCGGACTACCCCCCTCAG
80.76 GTCCATGATCCGTGTCGAAACACGGGAGACAAATTCGGCTAAGAAGACACGGCCCTGATTATCCCCTTGGCGATGGA
80.77 CTCACGCTTGACAACCACAAGGGGACAGAGCTAAGTTGTTATCCCTTNGCAACACCGACATTGCCGAGCGATGGTTATCA
80.78 CGTCCACCCGTGAATACGGTCCAGATAATCCGACGGCAAACGGGAGAAGTCCAAAGCGCTGCTAACGGAACGTCCGTA
80.79 TGCGGCTAGACTACATCTGCTCATTCAAATGGATTGAAACTTTACGTCACTCCCTTAAACTCCCTTCCCATCGTTTC
80.80 TGCAGTTGTACAATCCGTTTTACTGTGTTCCGGGACAAAAACAGCAACATAGTAGCTATCGCTCAACCGGACATGCAAGA
80.82 ACCCAAACCGAATATCCGGGACAGTCCCACTCGGGATAAGAATAGAGGACAATGAAAAGTGCAGGCAATAGAAAACCG
80.83 TCGCTCTGAATGCATTGTTCCCATGCGAAATCCGAGGCCAAACGGGAAAAGATGGCACCCAGCGGTTGCGCTTnnn...
80.84 CTCAGCCTGAGAAAATAATCCTCCCAGTGCCAAGAGGTGCAGATAGATTGGCACTCATTTCCTCCAAAGGTTNGC
80.85 GCCCGGTACGAAACCGAGGTGTTAAACGGGAAAAACACAACGAACATCCGAGTATTCATGAACTGCGGTCCCTTAAAGACA
80.86 CTGCTCAAACCAGCAAACATCCGTCGAGGATCGGGAAAACCTCCATATGCAAGAAAGCCGCAACCTGAGATGTACTA
80.88 CGTTCACCTCCTCTGCCTTCTACGTCTATGCCTCCCGAACACACGTTGCCGACCCACCCTTCAAGTCTAGCCATA
80.89 GCCAACTGCATCCGGGAGCGTTACGTGGGACATCATAGCGCAACGAACCTACCGCTTCAGCACACTCATCTGACA
80.92 GCACTCCACAGGAAAACATGGAGGGCGGGTGGAAACGTGATAAGTGCCTGTGTGAATTTAAACCTTACGAGGCATCTTA
80.93 CCTTCCACGACAAATCCTTATCGCATGCATGAGGGAGACCAGACAAGCATGTACAATCACCAGTTATGATAGTTCGAG
80.96 CGCTTGATCGAACGAATTAGCGCGTAGGCTGCGGCCACACTGCCCAATCCCGATCGTAAGGGGATAGTACGGCGAGA
80.97 CCGCGGAGTAAAGTTGTGGTCGTTGCAACGATATTCGGGAGGCTAGTGAGTGAAGTTTGATACCTGTGACACCAAGGC
80.98 TTGCCAAAGAAATGATCCTGCGATTGCTGCCACGAGGGACTAAGAATGGGGCACATCACCGGTAGCCCTGAACTTGC
80.99 TCGTGGCGCGAAACCTATCTACTAGATCTGGATTTATGCTTTTGTACCCGTTATCCCTTTCTAGTGGTTGGCTTGT
80.101 CCCACGCAACGATACTCGTCGAACAAGGCCGACACCTACTTTCTCTCCCGCCCTGTAAAnnnnnnnnnnnnnnn...
80.102 CCAATGGCACAGACATCGTAATCCGTATAGACCTGAGTACGGGACAAAACATATCAGGTATGAGAACAGAGGACTGCTG
80.103 GCAACCGGTTGTCTACACGCGCGAATAGAGCCCGGTTCAAGGACACCGCCACTGCTGTCGACATTTCTTAGTGTAGA
80.104 TCGACATGATGTGTGTAATTCCTGTTAGTCCGACGATGAATCTGTGCAGTGGAAACACAGGAAAAAATCCACACCGA
80.105a CCAAGACGGTAGAGAATATCAGCGCTTTTCGAAAACATCCCGTGGGCCCGCACGGAGAAAATAACAAGGGACGA
80.111 CCTAGGACGAAAGCGATAATCGGGCTGGAGGATCAAATTAATGCTGGCGCCAGGGGCAACGCATCTATGCACCTTAGG
80.112 CGCCTACGTTGAAATCCGTGATTCCTATACCGGATATGCTATGGGTGCGGTTGCGGTGCCGAGTATCAATCCTG

Supplementary Figure S1c.

For 70HRT₁₄ set:

Reported previously: 54 total reads, 42 independent, 34 sampled once, 5 sampled twice
Lower limit of sequence diversity from resampling statistics: $N_{\text{Chou}} = 42 + (34)^2/(2 \cdot 5) = 158$

31 previously proposed F1Pk in 70HRT₁₄ with 5 of them sampled twice
11 previously proposed F2Pk in 70HRT₁₄ with 2 of them sampled twice
4 previously proposed non-pseudoknots in 70HRT₁₄ with 1 of them sampled twice
(note: there were unrecognized triples in this set.)

29 sequences added subsequently, including 8 totally new species.

For complete LTS data set above: 83 total reads, 50 independent, 34 sampled once, 7 sampled twice.

Lower limit of sequence diversity from resampling statistics: $N_{\text{Chou}} = 50 + (34)^2/(2 \cdot 7) = 121$

For 80HRT₁₄ set:

Reported in JMB: 45 total reads, 44 independent, 42 sampled once, 2 sampled twice
Lower limit of sequence diversity from resampling statistics: $N_{\text{Chou}} = 44 + (42)^2/(2 \cdot 2) = 485$

19 80HRT₁₄ in family 1 with no doublets
25 80HRT₁₄ in family 2 with 1 doublet
0 80HRT₁₄ in family 3

31 sequences added subsequently, including 28 totally new species.

For complete LTS data set above: 76 total reads, 70 independent, 65 sampled once, 4 sampled twice.

Lower limit of sequence diversity from resampling statistics: $N_{\text{Chou}} = 70 + (65)^2/(2 \cdot 4) = 536$

For Combined sets:

Reported previously: 99 total reads, 86 independent sequences
Current information: 159 total reads, 120 independent sequences

60 additional sequences, 39 of which are totally new.

Lower limit of sequence diversity from resampling statistics:

$$\text{Net } N_{\text{Chou}} = (121)_{70\text{HRT}_{14}} + (536)_{80\text{HRT}_{14}} = 657 \text{ minimum total species}$$