

## Supplementary Data S1

### Reproducibility of the sequence specific error (SSE) in various mapping programs

Since the accuracy and sensitivity of our program (MPSmap) has not yet been validated in a publication, here we demonstrate the reproducibility of the SSE-related phenomenon using two open-source programs, BWA and BFAST. In Supplementary Figure S1, mapping results from Figure 7 are shown together with the mapping results obtained with BWA and BFAST (17,22). The mismatch positions are displayed as white dots by Tablet (29). The color scheme for read direction is grey for **forward** and blue for reverse. We can clearly see that the results of BFAST (second from the bottom) resemble results of MPSmap allowing 35 mismatches (top), and that the results of BWA (bottom) resemble the mapping results of MPSmap (second row) allowing two mismatches, in terms of position, coverage, and distribution of mismatches. **Results** from the three mapping programs **for several other SSE positions** are shown in Supplementary Figure S2. With a closer look into the mismatch pattern, there are slight difference between BFAST and MPSmap. Supplementary Figure S3 shows Figure 5 together with the mapping results by **BFAST**. Base-wise alignment of two reads by MPSmap and BFAST are shown at the bottom of Supplementary Figure S3 (b) and (c). The SSE miscalls are clearly portrayed by ungapped alignment (left), while a gapped alignment (right) obscures the observation.

The numbers of mapped reads in Table 1 do not represent the quality of mapping. Comparisons among different mapping programs or conditions in terms of number of reads mapped by each program, and the number of reads mapped at the same/different positions by both programs, are shown for *B. subtilis* (Supplementary Table S1). We compared mapping results among BWA, BFAST and MPSmap. First, we examined the quality of our index search. The first row of Table S1 shows a comparison between MPSmap with different index lengths ( $k = 2$  and  $k = 10$ ). For mapping of reads longer than 72 bp allowing 35 mismatches, mapping with index length  $k = 2$  guarantees the complete search. The complete search maps 9,187 more reads than our regular search with  $k = 10$ . Also, of 3,095,321 reads mapped with both conditions, 5,891 reads (0.19 %) find better matching positions after the complete search and are relocated. From the comparison with other programs (second to sixth row of Supplementary Table S1), we find the differences made by the index length are generally small, although it

may vary depending on the nature of reads. In contrast, there are larger differences between BFAST, BWA and MPSMAP, both in terms of number of reads mapped only by one of the programs and the number of reads mapped by both programs but to different positions. The former differences are likely to originate from the larger mismatch tolerance of BFAST and MPSmap. Although the difference should include a large number of reads containing SSE mismatches located to the right position, it is important to notice that an alignment that allows many mismatches may misplace reads (contamination sequences, for instance) that do not have the appropriate position on the reference sequence. The latter difference (mapped position disagreement) between BWA and MPSmap is considerable (~1.3%). A large portion of the position disagreement is most likely to originate from the usage of gapped alignment. With MPSmap, we did not explicitly consider gapped alignment for appropriate description of SSE. A gapped alignment is shown to result in higher-quality mapping for simulated reads (40,41).

### **Original objective of the mismatch-tolerant mapping**

As we stated in the main article, our initial objective for this analysis was to distinguish the error originated in the sequencing process from the real biological mutations between reference and sample. In order to detect the real biological mutations, we tried to take consensus of reads mapped in the same region, before taking the gapped alignment of each individual read. As a result of ungapped alignment allowing many mismatches, we expected the mapped pattern for reads including indels to be as shown in Figure S4 (a). **In this figure**, reads are aligned with the longer sides of the indel positions and therefore, the shorter sides are mostly mismatches with few accidental matches. Here the mismatch/match pattern of the shorter side should be shared by many reads of both directions; the mismatch positions appear as red vertical lines or rectangles, indicating the presence of actual mutations. As we were looking for these types of pattern in mapping results, we noticed that there are larger numbers of similar but not vertically aligned clusters of mismatches (Figure S4 (b)) which we then identified as SSE regions.

## References

- (40) Kim, Y.J., Teletia, N., Ruotti, V., Maher, C.A., Chinnaiyan, A.M., Stewart, R., Thomson, J.A. and Patel, J.M. (2009) ProbeMatch: rapid alignment of oligonucleotides to genome allowing both gaps and mismatches. *Bioinformatics*, **25**, 1424–1425.
- (41) Li, H. and Homer, N. (2010) A survey of sequence alignment algorithms for next-generation sequencing. *Brief. Bioinform.*, **2**, 473–483.

## Supplementary Figure Legends

Figure S1. Mapping profiles of SSE regions, depicted in Figure 7, generated by BWA, BFAST and MPSMAP.

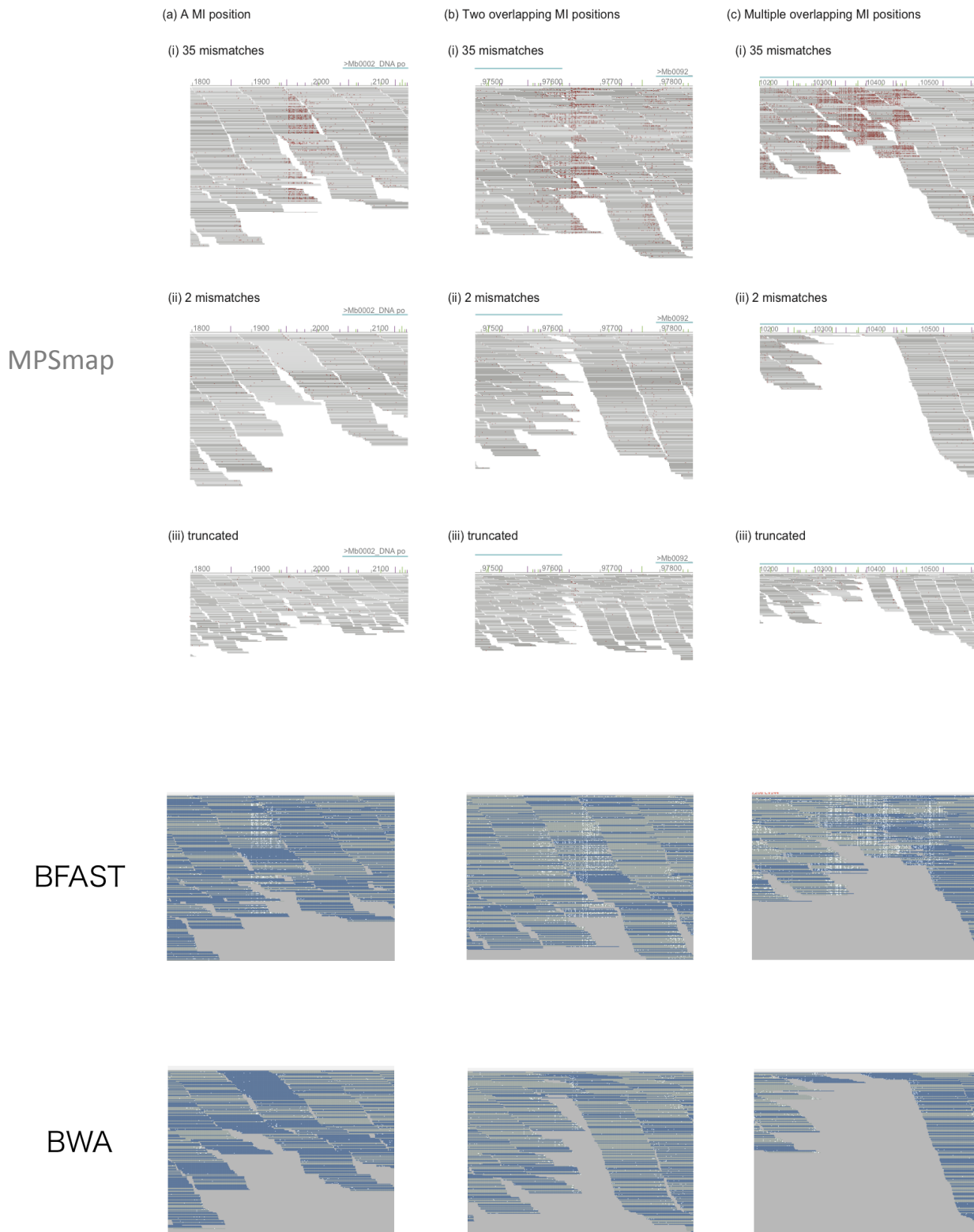
Figure S2. Mapping profiles of SSE regions by BWA, BFAST, and MPSmap. (a) An overlapping SSE region of *B. pertussis*, (b) an overlapping SSE position of *S. aureus*, and (c) SSE rich PE-PGRS gene region of *M. bovis*.

Figure S3. Comparison of base-wise alignments by MPSmap and BFAST.

Figure S4. Comparison of mapping profiles of an indel region and an SSE region by MPSmap, BFAST and BWA.

Figure S5. Mapping results of (a) *B. subtilis*, (b) *M. bovis*, (c) *S. aureus*, and (d) *B. pertussis*, by MPSmap (1) allowing 2 mismatches, (2) allowing 35 mismatches, and (3) allowing 2 mismatches with read truncation to 35 bp.

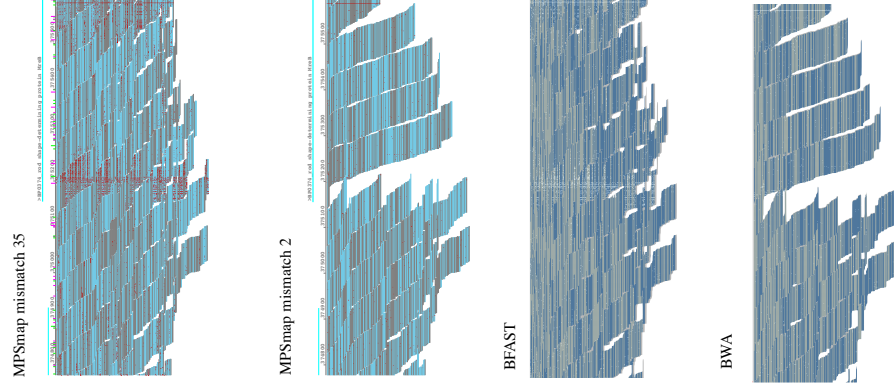
Figure S6. List of all detected SSE positions for (a) *B. subtilis*, (b) *M. bovis*, (c) *S. aureus*, and (d) *B. pertussis*.



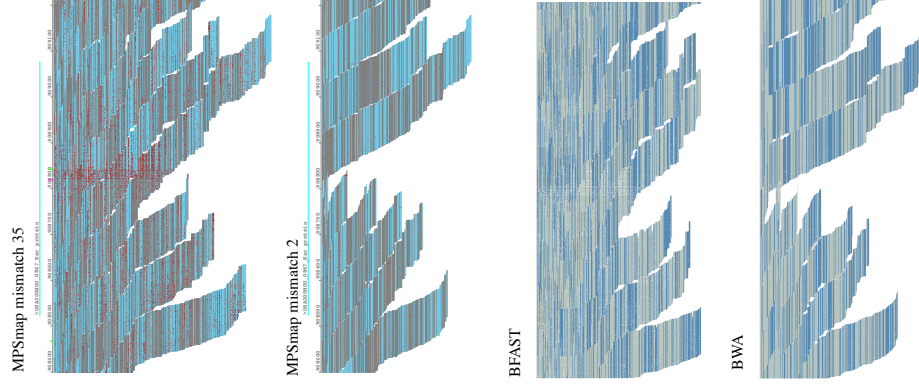
Supplement Figure S1 Nakamura *et al.*



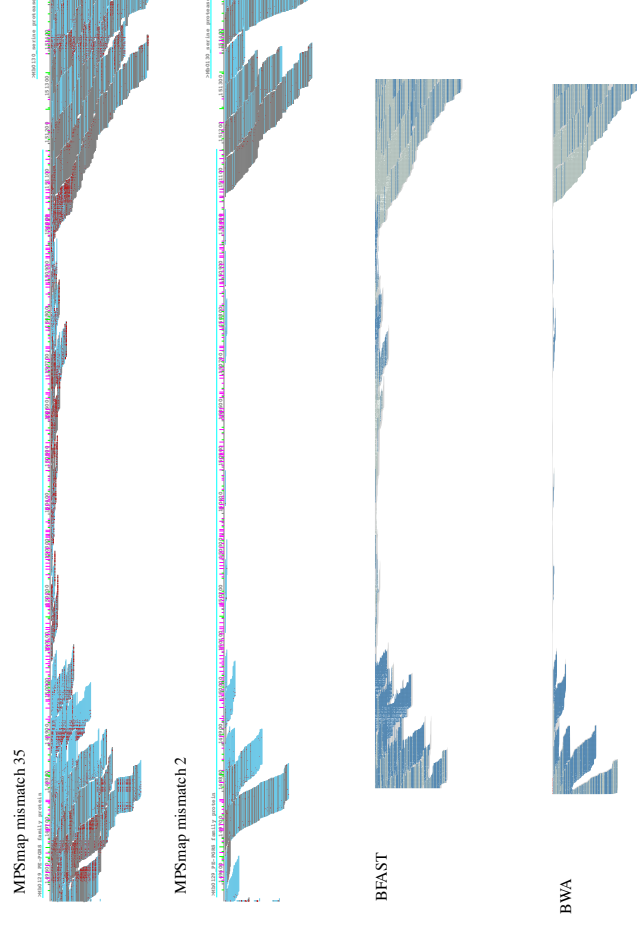
(a) Overlapping SSE positions *B. pertussis*



(b) Overlapping SSE positions *S. aureus*

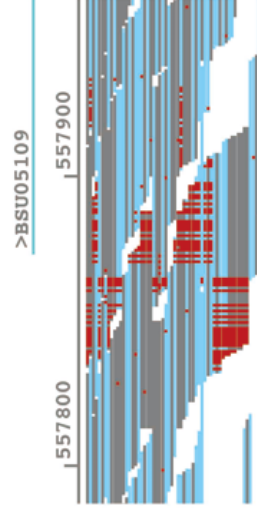


(c) SSE rich PE-PGRS gene region *M. bovis*

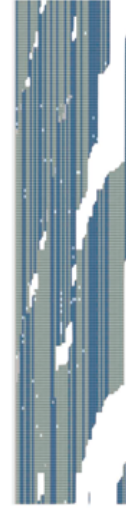




(a) True INDEL (one base insertion at 5567864)



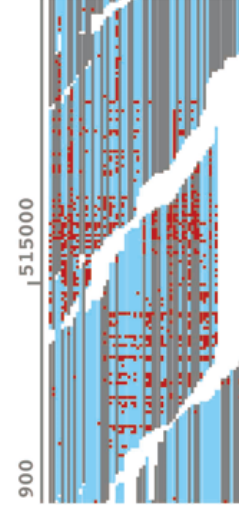
BFAST



BWA



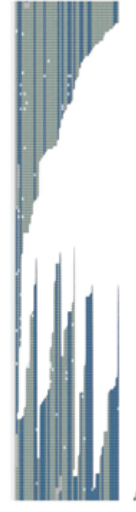
(b) Overlapping SSE

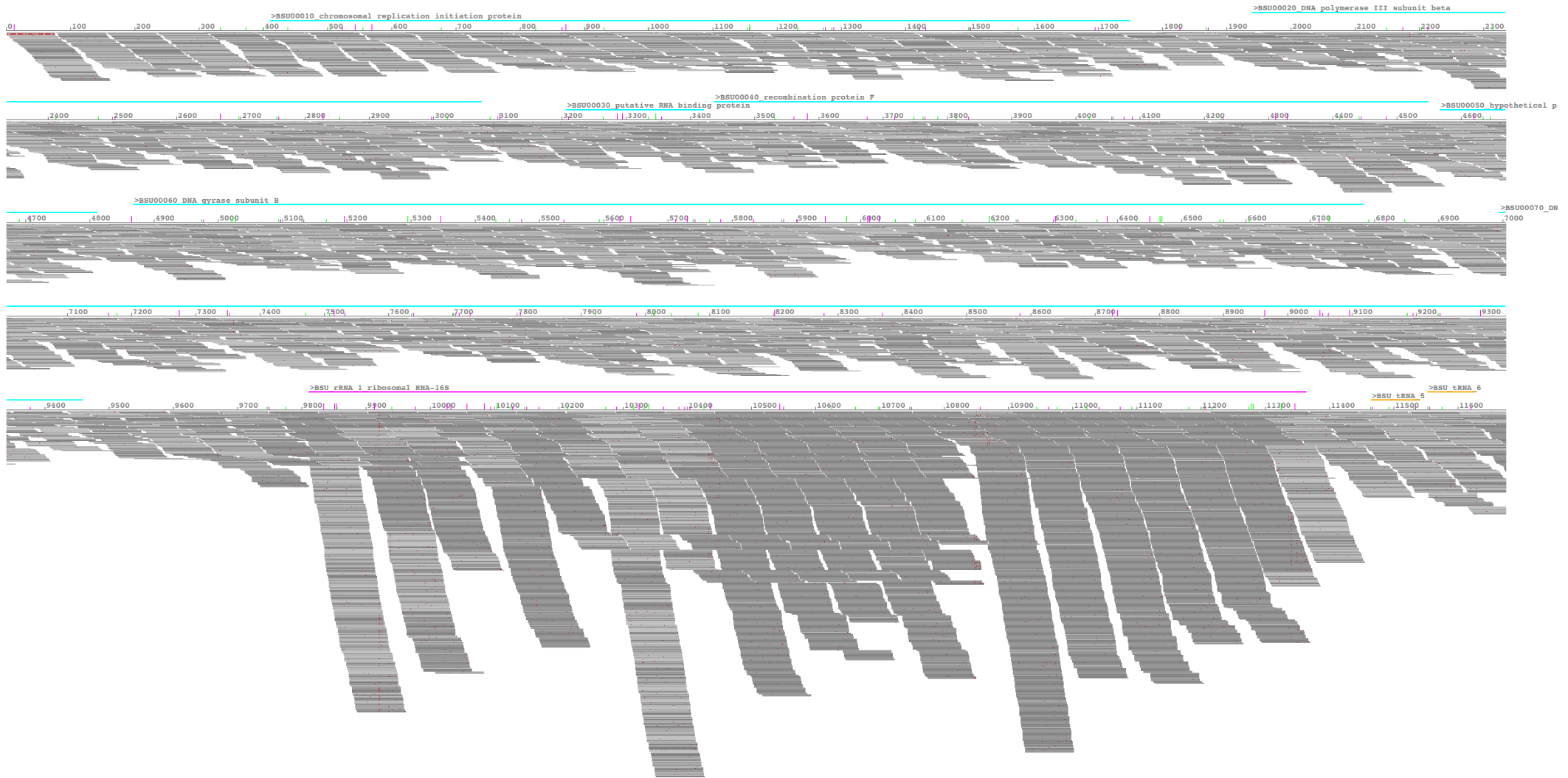


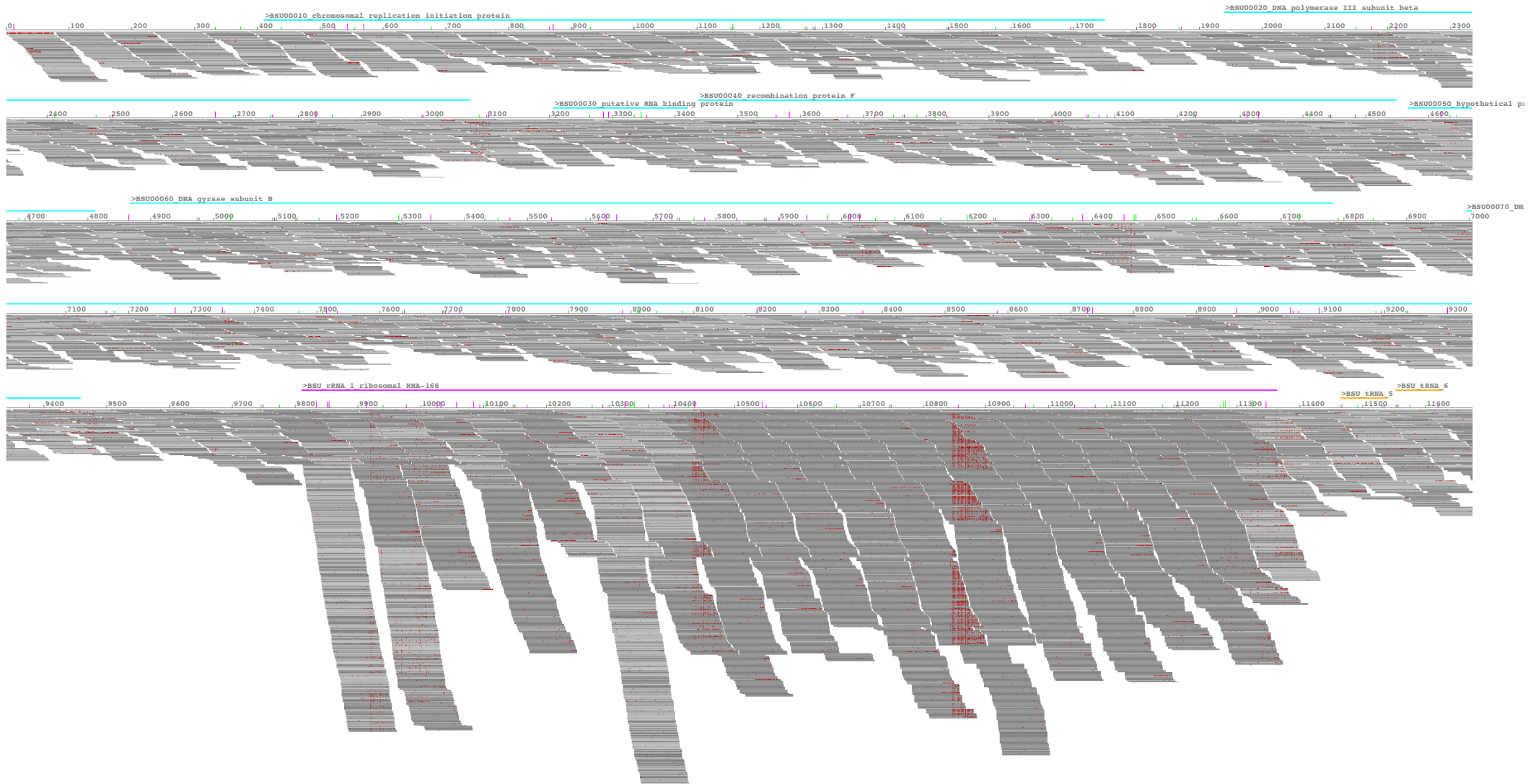
BFAST



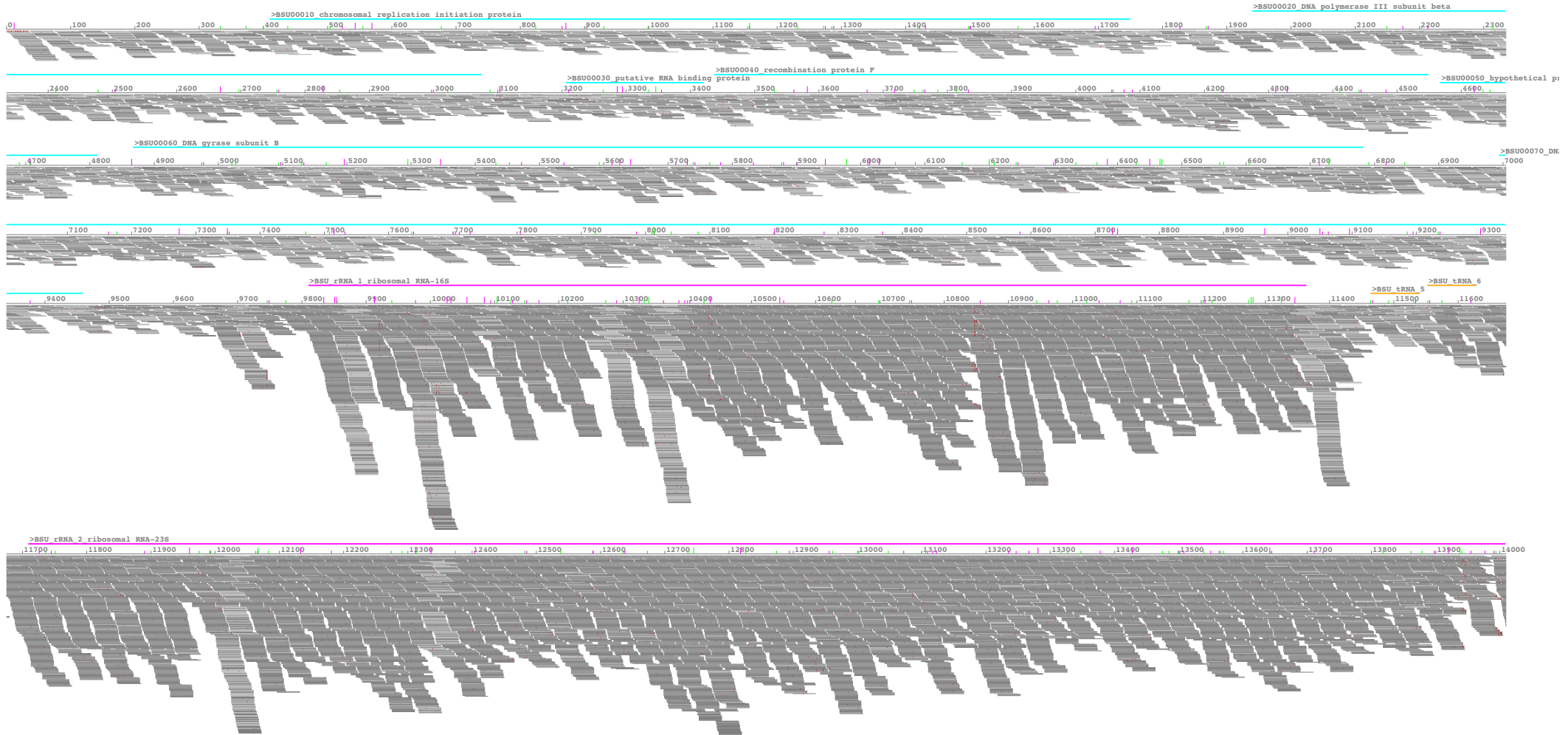
BWA



Supplementary Figure S5 (a-1) Mapping of *B. subtilis* allowing 2mismatches per read by MPSmap and PSmmap

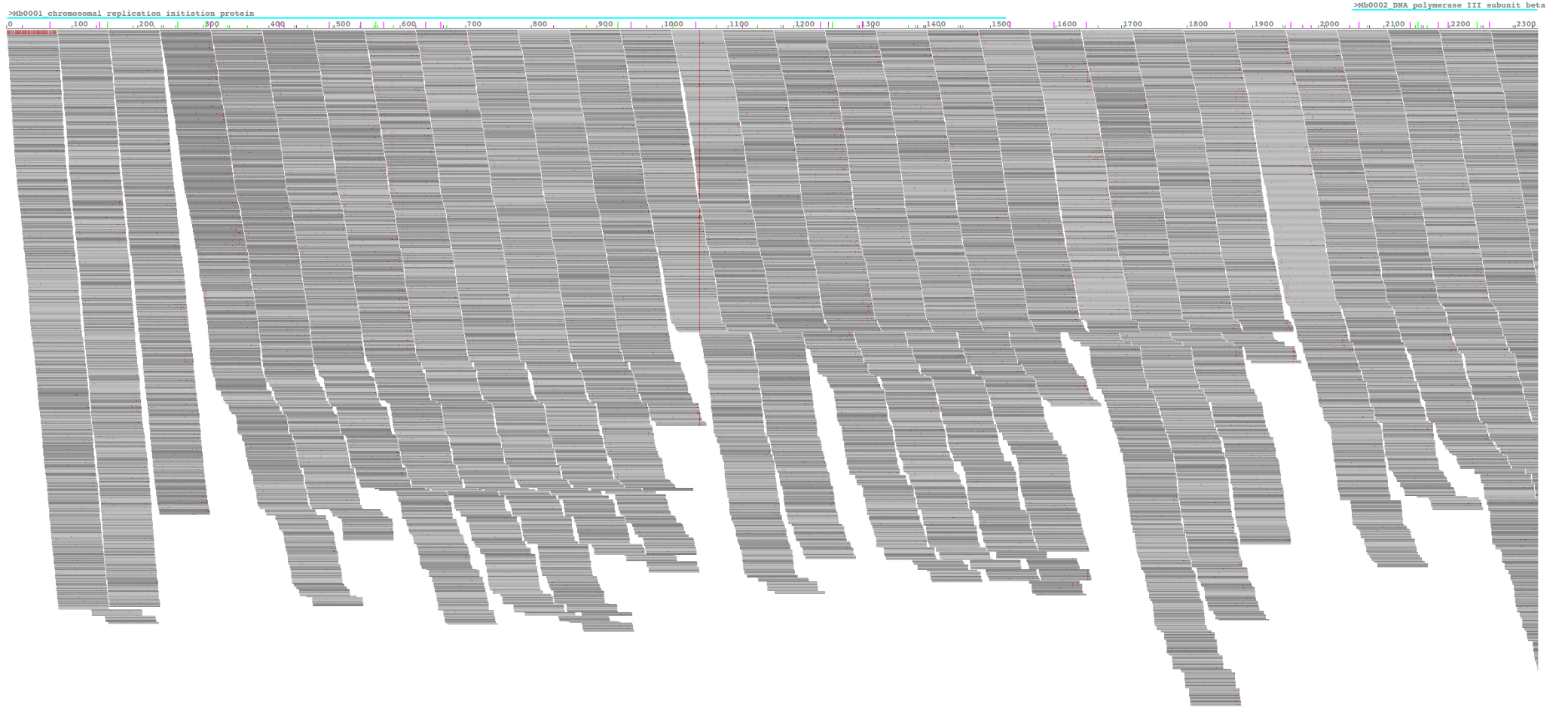


Supplementary Figure S5 (a-2) Mapping of *B. subtilis* allowing 35 mismatches per read by MPSmap and PSmmap

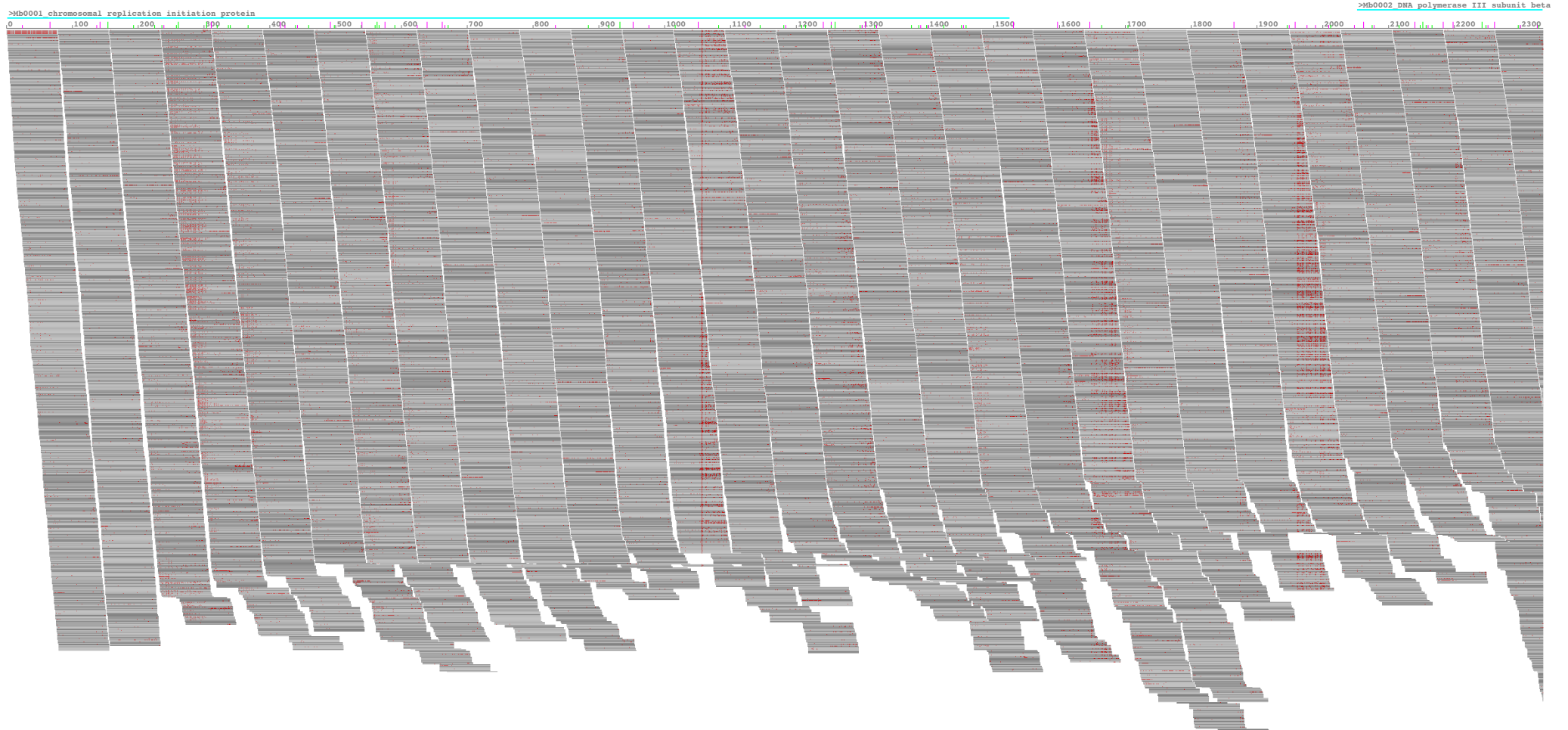


Supplementary Figure S5 (a-3) Mapping of *B. subtilis* truncated reads allowing 2 mismatches per read by MPSmap and PSmap



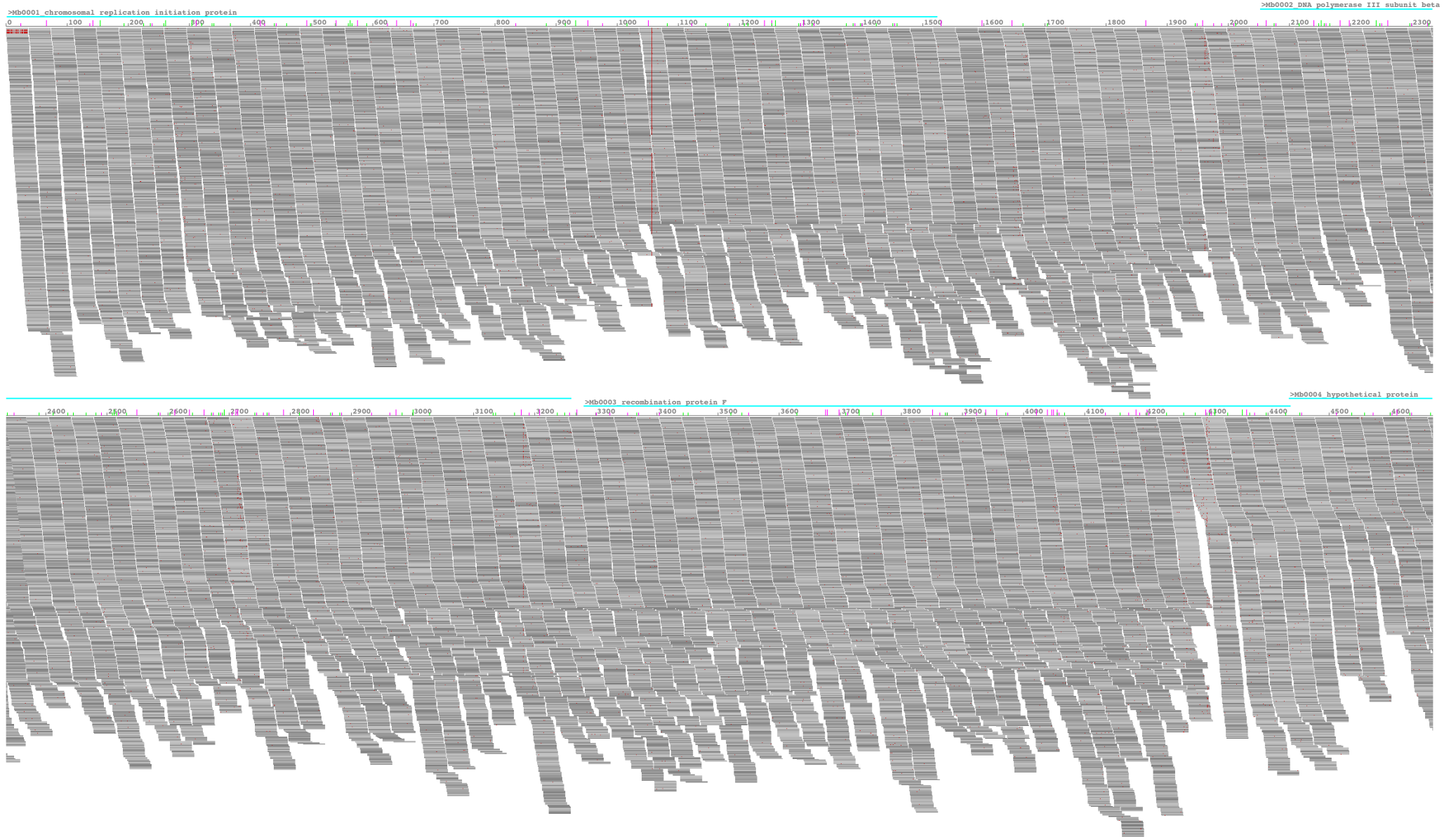


Supplementary Figure S5 (b-1) Mapping of *M.bovis* allowing 2 mismatches per read by MPSmap and PSmap

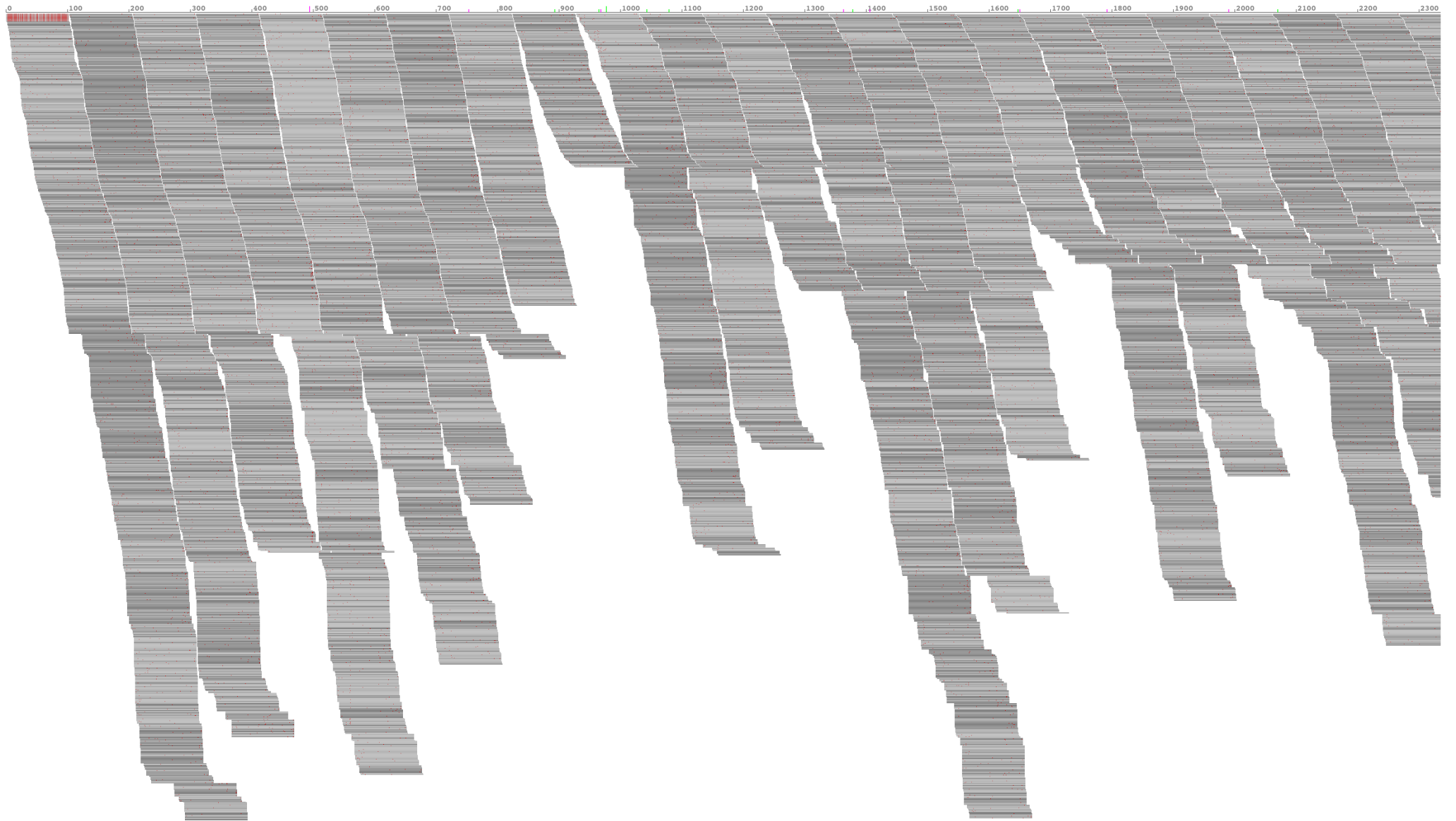


Supplementary Figure S5 (b-2) Mapping of *M.bovis* allowing 35 mismatches per read by MPSmap and PSmap

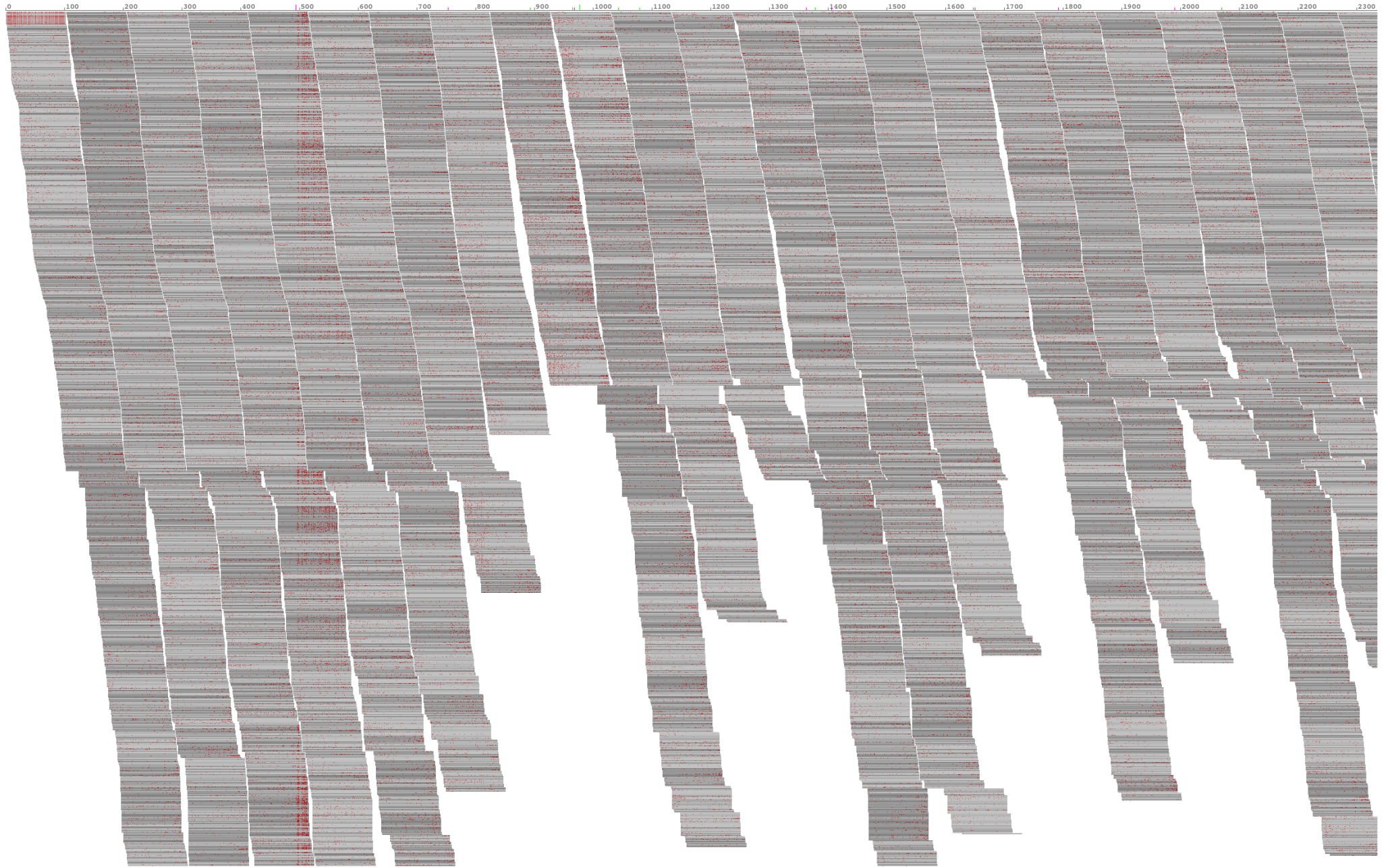




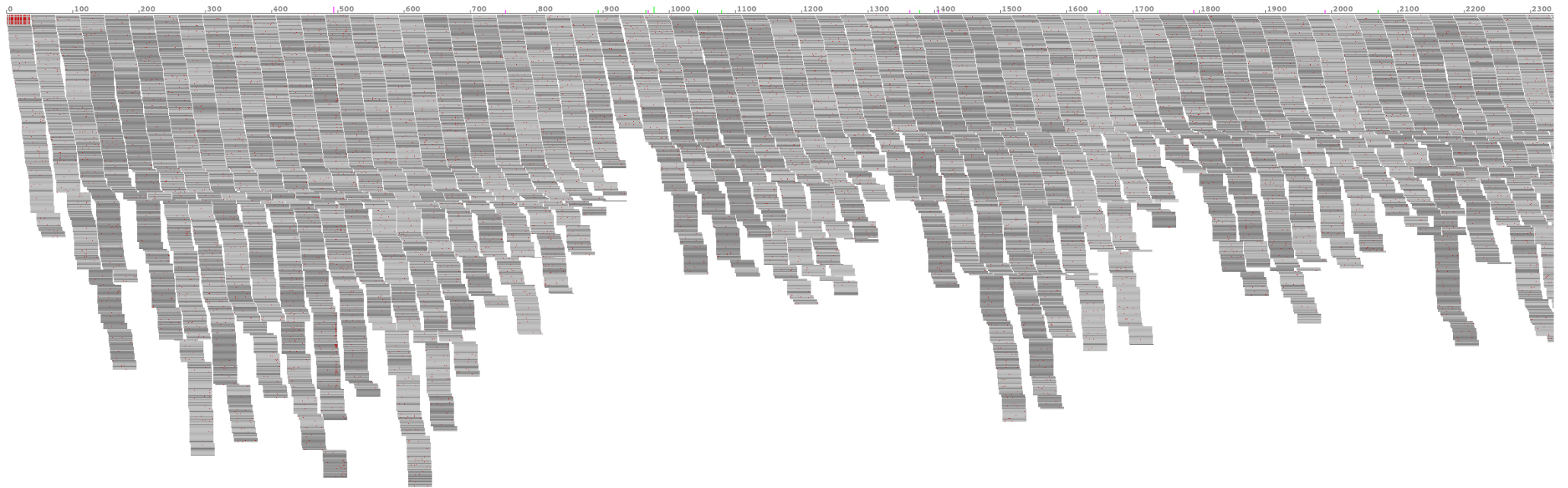
Supplementary Figure S5 (b-3) Mapping of *M. bovis* truncated reads, allowing 2 mismatches per read by MPSmap and PSmmap



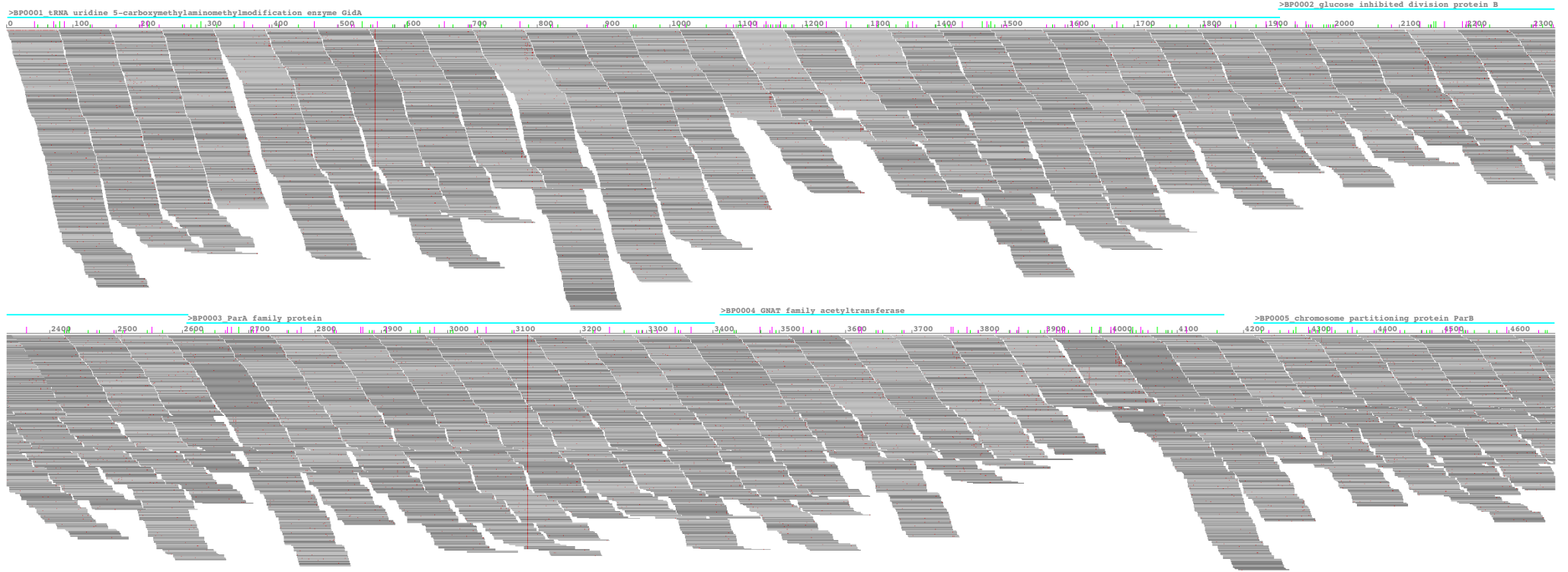
Supplementary Figure S5 (c-1) Mapping of *S. aureus* allowing 2 mismatches per read by MPSmap and PSmap



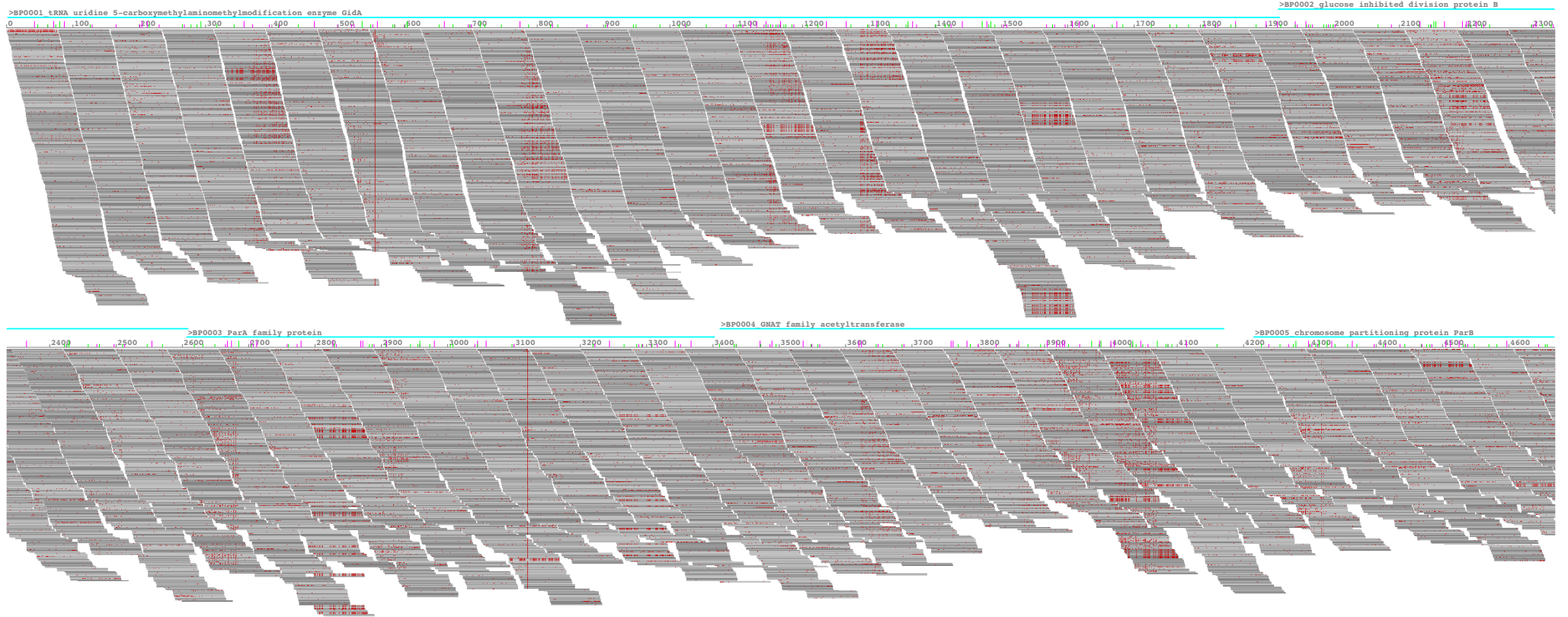
Supplementary Figure S5 (c-2) Mapping of *S. aureus* allowing 35 mismatches per read by MPSmap and PSmmap



Supplementary Figure S5 (c-3) Mapping of *S. aureus* truncated reads, allowing 2 mismatches per read by MPSmap and PSmap

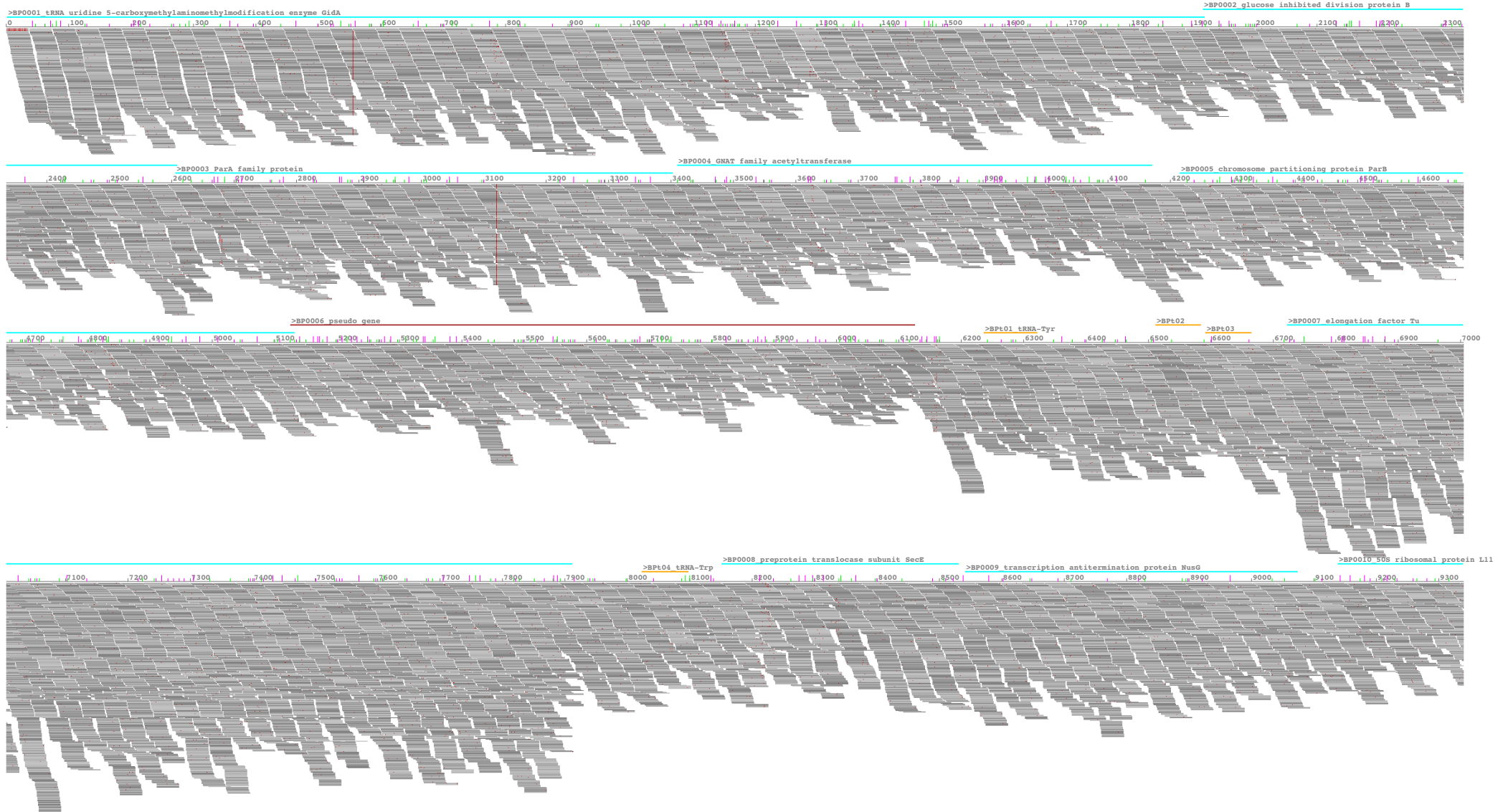


Supplementary Figure S5 (d-1) Mapping of *B. pertussis* allowing 2 mismatches per read by MPSmap and PSmap



Supplementary Figure S5 (d-2) Mapping of *B. pertussis* allowing 35 mismatches per read by MPSmap and PSmap





Supplementary Figure S5 (d-3) Mapping of *B. pertussis* truncated reads allowing 2mismatches per read by MPSmap and PSmmap

# Supplementary Figure S6 (a) SSE positions of *B. subtilis*

FW: 39036 TCATCCCTTCTCTCCGGTATCCCGATGATTATGGCGGG AGAAAAGAAACAAAAGAGGTGCGAAAAGCTCAGCCGCT  
FW: 50489 TTCAGCTGAGATTGATTATCATGCCGGAATTAAGCGGG CCTCGCCCAATGCCCGGGAACGACTGGGTGATCTGTT  
FW: 82715 CGCCGCTGTACCAATTGATTAATAAAAAAGCCAAATCCCG GTTTCGCCGGGATTTTTTATATTCTGTCATCAAAATATG  
FW: 111895 TTGGCTACCTGCCAAGCGCTTCAACTTTATCGGCTT GTTAGGCTGGTCCCGTTGGAGAAGAGAGCTTTTACAAA  
FW: 186067 GAATATCGACATTTTAAAGCTTTTGGAGTCTGCTTTTTC GCTTTTTCCGTAGAGGCTGTATACGGGAACCCCGTTTTTT  
FW: 224320 AGATGGCGGTGATTTTCCCTGGCTGGTGTGAGTGGCGGG TTGTTTGAACCTGGTACAAATGGCATCACGGGTATCCCA  
FW: 231949 AACTTTACTGCGGCTCAAGCATTTGCCCGAATGGCTGGG CAAGTGTGCTGACGGCGGTTGCCACTTCCGGTATCGTTTT  
FW: 236949 GTCTCCGTACCTTTTGTATCTTATTTGGCGGTTCAAGGGG TGGGCTGTCTTTGGTGGCTTTTGGAGCCGTTGGGAACGG  
FW: 263322 ATACGCCCTGTTTGAAGGGATGGCTTGTGGCGGCTGGG CAGCGGCATTTGGTGGCTTCCCATTTCCCGCTTCTGTTGAA  
FW: 278720 ATTGAGCTGACAGCCCGAGTAAAAGCCGCGATACGGCGGG GCAGCAATATTCGGCAGAGGAGCCGCTTGAATAAGGTG  
FW: 294587 ATCGTTTTGCACAAAGCTTATCTCATAATGGAAAAAAC TTGAAAAGCCAGGCTTTTCAAGGTTTTTATTTCTGAAAC  
FW: 324401 TGTGACGCTCATCTTTGGCCCAATGGCAGCGGCGCGCGC TACAGGCTTCTTTGTTTCCGGCATTAATGCCTCATGG  
FW: 326785 AGTCATGATCAATTTGGGGCGGTTTTAAGCATTTGCTGCCG CGGGCTGTACGGCGGCTTTGAGTATTCAATTGCAGAA  
FW: 330115 AGATTTTCAAAAGCATCTGTAGTGAATCATGGCAGCGGG ATTTGACGGCATTCTTAGTCGGCAAAATCCGGTTGATA  
FW: 332231 CGGGTTAGATTTGCTGTATGCCGCAAAATACGGCGGCGGG TGTATGGCGAAACTTTGTTCTCTCAATCTATCGCCATCG  
FW: 344656 CTGGGGAAGTCCGGTAGCAGCGGGTAAAAATATCGCGGGG AATGACTTAAACAGTTCAATCCGACCATTCGACAGCTTAA  
FW: 352275 AGAAATCAGCTTCTCATCTTCCACTTTTCCAGCGGCGGGG AAGAGAAATTTCCCAATTTATATTCAGTGTCTTTTTGGGT  
FW: 353715 GACATATGCGAAGCAATCTCCGGCGGTTTGTGGCGGG CGACCGGCTTTTTATGAAAGCAAGTGAAGTGAATGGCCG  
FW: 370670 CTGGGATTTGCTCAAGCGCTTATGGACAAATACGGCGGG TTTGAATCCAGAAACATAGAGGATTTTAACTACTACTG  
FW: 434295 CATGTAGAGGTCAGAAATGAAGCAAAATATAGCGGGG AAAGTTGTTCTTGAAGAGAGCTCAGTCACGATTCAAAAGGG  
FW: 437779 TAAAGCTCGATGGCTTCCGGCGGAAAGAGAGACTGGCGGG TTCCCTGTTTTGATAATCTGATTGAGGGTGTGATGATA  
FW: 441797 CACTCGACTCGAAGGTGGTGGAGCTGTGAAGCGCGAGG CGGAGGAGCTGATCTCTGTTTTTAAATGCATGATGAC  
FW: 450695 CAATGACGCCAAGAGGAGGCTATTCCGCGTATTGGCGGG TGATTTGCTGCTGACGCTGTATGTTTCACTGTTACAGCAG  
FW: 453906 AAATCTGTTCCGCGTTAAGAAAGCTCTGATGAATCAGGCC GTTGGCAGATGGTCCCGGCGCTGCTCATTTCTTACGAA  
FW: 463078 ACAAGCTAGGCTTAAAGAGTATCAGTTTTATAGAAAAAC GCGCCCTATGACAGCGGCTTTTTTATGTTGATCGAAAT  
FW: 474627 ATCTTTATTTGCGTATAGAAAAAATAAGCAAAACGCCCC GGGTACCGCGGAGGTTTTTTTATGCAAAAAACACATCG  
FW: 475551 TATATCCGCTGGTGTACAAAGTGGTTTTAATAAGAAAGG TGGATCAATAAAGTCAAGCTTTTGGCGTCTCTTATTTAT  
FW: 490560 CGTCACTGAAGAAAGTTTGAACCGTTATTTAAAAAAA CAGGGCCCTAAGAGCCCTGTTTTTTTTTTTTTTTTTTTGGGA  
FW: 515011 AAATGAAACCATTTTAGGATTTTGTCAACAATCTGAAGC GGGGTTAATACCGGCTCTTTTTTTTGGCAGCATAAAAA  
FW: 533330 TGAAGAAAGTAACTAAGAGCTGCTCATATCGCAGGCGGG TGTATGATGAGTATTCTTAAACAAAAGATTTTTGGAAA  
FW: 557842 TAAATACTGTGACTATAATAAATGATACAGATTGTATG AGATGATAAATAAATAAAGGAGTTTTTAAATGCGTTGGA  
FW: 563108 TCTTGTCTGTGGTGTGACAAAGTGGTATGATTTGGCGTTT GCATTTGGTTTTTCACTCAGCTGCACTGGATTTTCA  
FW: 608220 GAAAAGAAATTTAATGTGATTTGGACTATTTCCGAAAAA CGGCTCCTATTAGGGAGCCGCTTTTTTATGCTTTTTCACT  
FW: 648715 GCGCATCGGACGTGCTTCTGGGCAATAAAAAATCC ATTTCTCATGCGAAGATGATTTTCTTTATTTTTGGTTCT  
FW: 657735 TAACTTTTCACTTAAAGAGAGCATACTAAAAAGTATCGG AGCTGGATAAAACAGCTGTTTTTTTTTATCTTTAATTTTTT  
FW: 659075 GACTCGAAACGATGGCTGGATGCGCAGTGTCTGGCGGG CTTCCATTATAAAGCCGCGCAACCCAGCAGAAACTTTCTCT  
FW: 665458 GCTTCTGTTGTGGTGGCTAAGTGAATGGCGGCTGCGG CCGCTTTGGCTCGTATTGATTGCAAGGGGAGGTTGAT  
FW: 671942 AAAGCGAAATGATGCTGATAAATACATAGGAGGCC CAGCTTTCCGCTGCGGCTCATTTTATCATAAAAATGTGAG  
FW: 686525 CCGATTACCGCAATCGAAATCATTTGATATGGCGGG TCTTTAATCTTTTTTAACTCTGATTGAGACTGGTTCATA  
FW: 686882 GAGAAAAAGTGTCTTCTGCTCACTTTTTTCTGTGGCGGG TGAATCATTTTTCTGAGACCACTGCGGATCAGCTTTGTA  
FW: 696013 TTCTTAAATAAAGAAATGAAAAACAGCTGCACTGGCAGC TGGTTTTTTTGTGCAAAAGATAAACAATTTTATCATAGATA  
FW: 716752 GAAGGAGACGGAACAGACTTCTTCCAAATAAAAAACC GCCCTGCCGTGCGCAAGGCGGTTTTTATGAAAACATA  
FW: 719182 CGAAGGCTGATTTGAAACGCTCAACTTTTACGGCGGG CGGCATCAAGGATGCGGAAACGCGCAAGCAGTACGAGAGC  
FW: 724836 AAAGAGCCGACTGTTCACTTTTACTGATAGAAAAACC TTGTGCCATATTGGCACAAGGTTTTTATGTTACAATTAAC  
FW: 725302 CGGAAAAGACTGAGAAGCAGTCCGCGGAGCAACCGCGGG TCATTTTTTTGAAGAGTGTATGAGAAAAGCGCGGGGCAAAA  
FW: 726010 AGCATTGATTTTTTCAAGCAGCTGGTAGATAGAAAAAGC AATGGGATTCAGTCCCATTTGGCTTTTATAATGATACAC  
FW: 733033 CGCCGTATGGCTGATGACGATTTTGTAAAGCGCAGCGG TTGTATGCGGGTGAATGAAAGCAAGCTTATTCTCTGA  
FW: 736014 AGGTCAATTTCAAAGGACTCGGCTAACGGTTATCGCGGG TTTAATCAGTTCAACGTTCTGACGCTCTGATGCTGCCAA  
FW: 736630 AAGCGGATTTGCGTGAAGTTGACCTGATCATTGCGCAGG CGGAGACGGAACGATCAACGAGGCTGCAACGGGCTTGGCG  
FW: 737387 AAAATTTGGCTTGTAAAGCAAGCTCAGAAATGTTGACAAA TCTTAAAAACAGTTTTCTTTTTAGAGATTTTGCATCTTTTCA  
FW: 753474 GAGGAGTCCGGCTATCGGGATATGGTGGTACGGCGGG TTACCAAGCGGCGGCTATGGAGGCTCTCCGGGAACGTTGAA  
FW: 771992 CAGGCTGATGACGCTGATGACGATCCGGTGTACCGGCT GGCATCGCTGCAAAATATCGCTATAAACCGCCGCGCA  
FW: 776744 TTGTTGACGCCGCTTTGAAAAGGCGGGGAGCTGGCGG CCGCCGCTGATGAATACCGTGTATTCAATTTGACAATCAC  
FW: 805425 TATGATTTCAAAGTATAGCACATAAAAAAGGAAAAAGCC GGGGGTGGGACCGCCGCTGAAAAGAGATTTTGTGTT  
FW: 807133 GTTTCAATTAAGAGTGTAAATAAACAGTTTTATCGCGGG AAATGGCAGGAGGCGAGCAGCCCAATGATTTGAAAAACAA  
FW: 812003 TTTCTGAAAGCCTTAAAAAGAGTCTCTGTCACTGGCGGG AAGTTTAGCTTAAACAGGAAAGTGAAGAGCGGGTGTGAT  
FW: 814352 GAGCTTTTGAAGTGTGTCAGAAAAAATGGCAGTAAAAAA CCGCCCTTTAGCAGCGGTTTTTTTTTATAAATAAAGCAC  
FW: 824334 TCCGGCTATCATTAAATAAGTACAGCAATAATGGCGGC TCCGGCAATGCGGAGAACGGAAGCAGTATACCGGCGACT  
FW: 824696 ATCAAGCCCAATGAGTATCGCCAGTAAAGGGCGTTTTT GTTTCTGTTGTTTTCTTCAATTCAGGTTTCCGCCCTTCC  
FW: 832210 AGAACAGCTTACCTCGCCCTCTTCTGCGCATATCGGCTT GTCATCTTATACGATTTATGGCAATTTAATGATAACG  
FW: 839314 ATATCTGAAAGAGCGGGCTGTGACAAATCAAGAAAGCC GGGCGCATATCGCCGGCTCATGTTTTTATGTTATCAACC  
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FW: 850741 ATATTTTTTATCCAATTTGCTGCGATTGTACCGCGGG TCTTTAATGGGATCAATAACATTTAACCGCGGAAGGCA  
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FW: 860272 ACCCGGAGCTTGTGCTGATGATGATGAAATGAGAAAAAAC GGACGCTCTTGGCGGCTTTTTTTTGTGCTTAGGCTTGA  
FW: 865240 TCACATGAATCGTATCTTTTTTATTTAGTGGCGCGGG GTTCCGCTTCTGATGATGGCAGTTTATGATGATGGCTT  
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FW: 928664 ATTACTTAAATCAAGCAGAGGCTTTTGCATTTAAAAACC TGGCGTAAACGACCGGAGGTTTTTTTCAATTTCTAAAAAT  
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FW: 999973 ATAAAAAATAAATCCGCAAAAAACCCGCTGAATTTGGCGGG TTTTTTAAACAAAAGCGGAAATTTTTAGTGTCTTTCTTAA  
FW: 1010961 TGTGGAAGAACTCAGCATGTTCCGCAAAAGCAGGAAATCCC GGGCTCAAACCGCGGATTTTTTATGTTGAGAAAGGCTAT  
FW: 1020019 TACTTCGGTGCAGAAAGATTTTAAATTTTTAGAAAAACCC GTTCATTTGGAACGGTTTTTTTTTATGAGCGGACAGCGG  
FW: 1023555 ACGGCGGCTCCGGGCTGACGATTTATTTGTTGGCGG GGTGGCTGTTTATTCGCGCCCTGTCTTACCGGGAATTT  
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FW: 1066918 CCTGCTGACGCTGCTGATGATGAAATGAAAAAATGAACTCC ATCTTCAACCGAAATCAGCAGCAGCTTGGGCGCTTGGGTG  
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FW: 1088235 ACATGAGTGAAGCAAAAAACATGATGATCATCTGGCGGG CGGCATTACGGTTTAGCGCCGCTTCTATATGGAAAAAG  
FW: 1089614 CGCGTGTCTGACGCGCTTACTATTTTATTCAGTAAAAACC TCCGTTTTTCCGGGAGTTTTTTTTGATGCAATTTGAAAT  
FW: 1095738 TTTTCTTATTTCAATAATGAAGAAATCGGTACGGCGGG AATTCGAATTTCTCTGTAACAGGTTGAAATTTGGCGGT  
FW: 1096531 ATTACAGAGTTGTTTTGCTGTTTAAAGATTAATAAAGCC TCGGGGCAAGAACCCCGAGGCTTTTCAATTAACAGAAAT  
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FW: 1164001 ATCATTTGTTTTGATAATACGATACTCGAGAAATGGCGG CTCCGCCCTGACAACTGAGCCAGCGGATAAAGAGATG  
FW: 1176665 CTTAACAGCCCTTTGCAATTTGCTGATTTGGCGGTTTCTT TTTTCTTTTTTTTTTTTAAATAAATAAATCAAGTCACT  
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FW: 1216128 TCCGGTTATCATGGCAATGACTGTGATCTCGGCGGTTCTT GTGTTGTGGAAACCTCATTGACAGACATCTTTACCGGAT  
FW: 1253144 TGGGCTTTGGATACGGATTCGGCGGCGGTACGGCGGGCTA CTGTTATGGCGGTTATGCTGGCGGTTACGGCGGCGCTATG  
FW: 1260402 CGTTTTAGAGAAAGCAGTCAAAACAGCTCAGCGGCTTGGG AATTTTTTCCAGAAACCCCGGCGGCTCAAGCGGCTGATTT  
FW: 1282543 AGGTTAAAAACAAGGAGGAGCAAAATAAATGAAAAAGG CTGTCGCTGACGACGCTTTTTTCTAATTAATAGAGCCCT



FW: 1283370 TATCCATGGTTCCACCTCCTATGCCTTACCTATCGGCGGG TTTGTATGATTTACAGTAAAAATGGCTTAAATTCCTTTG  
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 BW: 3037925 TTTTTTAAATTAATAA AAAAAGCCCTCTGTTTACAGGAA GGGAGGATGATTATGCTGCGGTAAGCCCTCAATAAAG  
 BW: 3051806 GCGTTGAGGCTTCTCGCGCTACTTCACTGCTGAAAG CCGCTTACGCGGCTATCTGAGCATCTCAGCGGTTGT  
 BW: 3056839 CCGGCAAGCAAAAATAAGAGCGCTGCTATGAGCGCG TCTTTTTATATATCGCGGAAATCGGTTTTGATACCGGA  
 BW: 3085785 AAAAAGAGATGTAAAAAAGCCCAAAACCGCTTGCAGGTTTT GGGTTTTTCCAAGTTATTTGCTGTTTAAAGGCTTCT  
 BW: 3110135 TTTTTTCAAGCAAGTGGGTGATCTGAGAAAAAGCGCTCTC CAGCCGCGCAGTCACTCTTTTACATCTTTTGTGCTAA  
 BW: 3113966 AACGCGAGATGCGCTATAA AAAAAGCGGCTGCTCAGCC GGTCTGTTGATTAATAATTTTCTCTCAACGCTGTCAG  
 BW: 3116925 CTAATATAAAAACAAAATGGTATAACTAAGCGCACTTTA TTTCTGCCCACTCTTTGTAAGAGCTCCGGAATCCGGCA  
 BW: 3119558 ATCTTTTTTCAAAAAAAGCCGCTTTTAAAGGGTTC GTTTTCTACACATCAAGAGGGTGTGCGAGATCATATTA  
 BW: 3130584 CCGTCAAGCATGATTTTTTTTTGACGGCTGATGCTTCCGGAAT CCTGCCGCGATCAGCAAACTAACGAAGGAGCAGCGGATG  
 BW: 3137481 TGAGACGTCAAAAAAGCACTTTTTGCTTAAAGCCAAAAA GGTCTTTCTATTTTTAGCCAAATCTTTTATGCAATTTCTT

BW: 3146150 TCAAGCTGATTACATAAAAAAACCCGGCTGGGTGAGCAGCC GGTCCAAACGAGAAGGATGATTCAACGAACACTTTTAC  
BW: 3152484 CGAATGGCCAGCCGGAATTTCCCGTTATCTCTGGCTCTCAAT CCAGCCGATAGGGGCGCATACAGCCGCGGGGACATCGGT  
BW: 3179912 TGACAAGCGTAAGAAAGTAAACATCCCCAGCGAATTCGCT GGGGATTTTCTGTTATCTGTTAAGAAAGTGTTTTAAAGC  
BW: 3183856 TAGCTTCATATCCAAAAAATCCCGCTCTGTAAGGAGC GGGATTTTATTATACCGTTTTAGGCGTAAGGTTAAAGCA  
BW: 3211549 GTTTTGTAAATCGAAGGACGATAAAACAGAAATTTAAATTCGG CTGCCACAAATGGAAGCAATCAGCAACATCTTCTGTTG  
BW: 3221835 GATTACGCGCTCAATCGCTGCCCGCTCCAAGATAAGAA CCAGCGATGCCGACAAAGCAAGCATCAGAGTCAGATT  
BW: 3253507 CACTCTTTTCATTTTATAAAAAAGACTTGGCTGTGCCAA GTCTTTTCCGTTAATAATCCATTAACATTCGATTTCAATA  
BW: 3255529 AAAAACTATAAGGCTATTAGAGTAACATAATCAAATC TTTGAGATGAATCTTTTTCACTTCTCAAATATCCAGA  
BW: 3274542 TTTTTCTGCTTTCTTTTTCTTCTGTTCTTTTTTTGCG TTTTTCTCGGTCGGCTTTTTCTTCTGCGGCTTTCTCT  
BW: 3280277 AAACGCTCGCTAAGATAAAAAAGACTGCGGCAAGCAG TCTTTTTTGTAAAGATTACACTTTTTCAACAGCTTTTAG  
BW: 3294933 TTTTTTATCATAAGGAAAGGCTCCCGAGTAAGGGGAG CTTTTTTCTATAAAAAAGGCTGCAATCAGCCAAAGA  
BW: 3296591 GAACCAGGTTGTTACTCAGCAATTACCAAGAAACGTT CTGCCATAATCGCATGCCCTGCGCTCCCGTGAATTCG  
BW: 3307637 AATTTACCAAAGCTAGTCCAGCTGGAGCAGCATAAAGCT GGGCCGAGCAAGTACTCAATCGGAATACGAGAAGCGCG  
BW: 3320033 CCGAAGGCGTGTGTATACAAAAACGGATTTAAAAACC GGGAGTGACCCCGCATCAGTGAAAAAAACAGCGCTTCC  
BW: 3322048 ATTACAGTACCGAAGGCTGGGGAGATGCCCGGCTTCC GGTGGAAGCGGATTCATGAAGTACGGATATCTTTGCCC  
BW: 3322312 GATCAGTCGGCAGCTCCGATACGGCCCGCCGGGAAACGCC GGAAGTTCGGCCGATCTGCATATGGCATGTACAAAG  
BW: 3327242 TAGAACCGAAGGCTGAAACAAAGCCGCGGTAATAATCCGG GGGTTACGAAGGAAAGCAAGCAGGATCTGCTCAATTCAGT  
BW: 3335759 GCTGTGACTGAGGCTAAAAAAGTCCGCTTTAAAAAGCC GACTCCCGTACTACCCCGTCAACTCTCTTCTAATCTCG  
BW: 3345005 GAGATTTGGCGTAAGAAAAAGGTGCTTTTTGAGGAGCA CTTTTTCTAATACAGCCTCTCCGTTCCCGCATCGAA  
BW: 3354510 GAGACAGAAGAAAGTAAAAAACCGCGCCCTCGGCAGC GGTTTTTTCTGCTACAAAAAGAGGACTGAATCGG  
BW: 3368558 AAAATTTCTCAGTGATGAGTCCGAGCTGATTTATCAAGG CCGAGCCCGGCTATTTCTCGGCACATCGGCGCAAGCA  
BW: 3368872 TCCCTTTTATGATAATATAACACCGCCGCTCCCAT CCGCCGCGGATACACATGTGACAGCTCAAATGTCTCGT  
BW: 3385189 TTTGCTGACGCGAGATAAGCGGATGCCAAGCATGAGG CCCCAGGATAATACCGCTCAAATCGGGCTCAGCCATG  
BW: 3389013 ACAGCAACATTTAGAGAAGACGGCTGTTAAAAAGCAGCC GTTCTTCTATTACGCTTTGGTTTTACCATGTCTCCCG  
BW: 3394665 CGCGTTTTTACCTGAGTGGCCAGCTGGATAATATCTTTT GCGCCACTTTTTGACTCCAGTCTCCCTTCTGCTTG  
BW: 3395521 GTAATGGAGCAGCAGCCCTCATCTTTTTGGGCTTCCG CTGCGCATATGCTGACCATCTGATCGCTGACTGTTT  
BW: 3418026 TTGCTCCGACTGTCATAAATGCGCCTACAAGCGCCGCA TGGCCTTTGTTAAGGAAAGCGGATCATGTATAATTTGGT  
BW: 3437635 GAGTTTCCGAATTTAAAAAGCGCCGCATACGCGGCGCG TTTTTTTGTTATCAGATTTTTGCGCTTTCAGCAGGACA  
BW: 3443601 TATATAAAATGAAGAAATATCGCGCTCCCTAAAGCGCG GATACCTTGAATCACTTGCTGATCGATAGCCCTGATCTT  
BW: 3446671 ATGACATTTCCAGCAAGTTCTGGCGCCGCTTTGGTGA AAAA CGCGCCACAAAAAGCATTTGTTCCCAAGCGGATCAGC  
BW: 3457505 TCAGCAAACTACTGATTTTTTCTGCTGAGAACAAAAAAA CCGCCTCTTCTCATAATCCCTGTTTCTTCTTATAT  
BW: 3460053 GATCGCTGACTTCCAGTAAGTGGCAATGACGAGCGCTGCG GAA GGCCGCGATAATGACAGGAGGAGCGGGGAGCTCAAC  
BW: 3466426 AATCCATTATAATGAGTGTCTTGGGATGCTCCGCAAGA CACTTTTTCAACGTGAACGTTAATTTTTGTAAATATG  
BW: 3472243 CATTCAATAGATTATAGCAATGCCAAAAATGAATATGCCG CCCCAGCTCGGAGCGTGAATGTTGATCAAAAGT  
BW: 3516283 TTTGATGTTTTGAATGGAAAGAAATGATGCTGCGGAGCACC GGGCCGCTTACCTGTCCGATGGAAAGGATCAGCCCG  
BW: 3516542 TGACGTGGCCGCGATGCGCGATCCCGTGAATGATCGCG CCGCATAATCACTGCTCCCTTCCCAATGACAGCGCAT  
BW: 3531120 TTAATGAGCGTATTCTGATTAACCTTTGGCTTTTAGAC CAA GCGCCGCGTGAATGGTGCAGAGAAATTTTTCAGCGT  
BW: 3532309 GCAAAAAAGAAACCGGAAAAAGAAATTTCTTTTTCC GGTTTTTATGTTTATAATCTTCCGCGCAATATCG  
BW: 3554207 GCTGTTGATTTGACTTCCAAACCGCGCTTTTCAATGCGGC GTTCTACGTGAATCATGAATATAAAGATATAAGAACATG  
BW: 3591296 CACTCAATTTTAAACAAAAAAGTCCGCTGATGTTATTCAAG GACTTTTTTCACTTCTTTCGCTTTTTCTCTGATAG  
BW: 3615161 CTTCTTTTTTCTGCGCTTTTTGGCCATACAGTCCG CAGCCACAAGAGACACAACATCCCAATCTCAATAAAA  
BW: 3615527 GGTCAAACCTTATCTGATGCGCTGTTCTAATCAGCG CACTTTTTTATTACATCTACAGCCTTCCCGCCAGATTCC  
BW: 3620338 ACACAAAAAGCGCCGCATCGCATCTCTGCGTCCCGGG CCGCTTTTATGATCCGAAAGCACTGCTGCTTTCAGC  
BW: 3638678 CACTTGTCTTGGCCCGCGCTTGGCAGGTTAGTTTT CACCCAGTAAAAAATAAAAAAGTCCCGCTTGTTCACC  
BW: 3668509 TAATTTTTTATAAATATAAATAAAAAAATATATCTTTTTAG CCACATAAAGTATTATAAATCTTTGACAAACCTGAATA  
BW: 3692525 GTGGAAAGTAAAGCAATCAAAAGGCTGCGCATGATCGCGCA CTTTTTTTATGTTCCGAGATGCTGTTTTCCCGCCCG  
BW: 3693656 TGGGGCAGTGCACACCAGAACCGCTATACAAAAACGCA GCGGGCTGCCATAAATTTTTTCTCCGAAAGCGTC  
BW: 3695231 ACGATTTAGGTATAAATGAACGGGATGGCGATTACGCCAT CCGTTTTACATATTTCTGTTGAAATATCAAAAGTAA  
BW: 3697332 TTTGATCAATCTGATGATGTAAGAAACCTCTTTCGGCGTT CCCCAGCATTTATACTGATATCAAGCAGGTTTTTTGCG  
BW: 3697455 CTCCGTTTTTGTATGATTTGGAACAAAAAAACAATGATAAA CCGCCACAAGCAAAAACTTCCAGTTTCCGAGTGTT  
BW: 3712681 ATTTTTATTCTTGAGACCAAAAGGACTAAATGAAGCTAT CCCCCAGCATTTTGGCGCTTAATGGTTTTATGTCGGGA  
BW: 3730032 CGCGCAATTTGACGAGGGGCTTTGTCTTTTGA AAAAC AAGAGCCGCGTATGCTATGCGCCGTTTTAAAAACTGCT  
BW: 3738251 GCAATAATCATGACTAAAAAAGCTGCTTAAAAAGAGCCAG CTTTTTCTCTGCTTCACTCTTTCGATTTATAATTTG  
BW: 3741699 AGATATGTTCTGATGAAAAAGCTGCCGTTTGAACGGCA GTCTTTTTTCAATAAAAACAGCGCCCTCTCGGTTGAAC  
BW: 3750705 TATTGAGAAATAACTTTGTCAGACTGCCGGGAAATCCCGGCA CCGCCCAATGACGCGTTCCGCGGAATCAATAAAAA  
BW: 3756225 GTTAATCAAGACGATGTTACAAATAAGGCAATAAAAAATA GGGGTTTTCTGATGTCACAGTAATGATGATTTGCTC  
BW: 3764140 GCGCATCTTATGAAGTCCAGAACCCCGCTTTACGCGCC CCGCGCTTATCAAAAATGAATAATCTTTGTTCAAGTGG  
BW: 3766703 TGCACGTTTTAGTCAATAGAACGGCGGATGCACTCCGG TTGTTTCTGCTCTTCCGATGATTAATCTTATCTGA  
BW: 3770078 TTTATCACATGAAAAAAGGAAAAAAGCAAGAAACAT CGCGCGCTGACGGCAACATTTTCACTGCTTTTTT  
BW: 3781270 GGGCAAGGATGGTGACTGATCAGCAGCGACTTTCTACAAAA CCCCCGGGCAATAGCCCAAGCGGTTTTAGGATCTTAA  
BW: 3789154 TACAAAAAAAGACATTTAGTTCAGAAACATCTGCAAAAAA CTTGCGGTACAGAGGTGAAGGCTTCAAGGATTTGCAAG  
BW: 3793650 CAAGCGATGATGCGCAATCTAATGGCAACGTTTCAAGA GGGCCCGATAAAGATTGCAATCAATGATGGCATAAT  
BW: 3824165 CGCGCTCAGCAAAATGGTCACTGATAGCGGTAATAAT CCGCAAGCGGATGCAAGATTACGCCAAAATGCTCC  
BW: 3832785 GACAGCTGAGCAGCTGAGAAACCGCAATAAAGCAGCCGT GGTTTTTCTGCTCTTTTCAAAAGTCCCAATCCAT  
BW: 3847264 AAGTTGCAACAAGGAGGAAATGTTAACCAGCTCCATCGGG CCGCCAGCAAGAGGACGCAAAAGTAAGAAATGATCCGCT  
BW: 3858202 TATAGATGCTCTTGAGCGAAACGGTCAGCCAGGCTCCG GAGCCATGATGAACACGCTGAGGCTTTTTTTCAGCGCTT  
BW: 3865857 GTTGTGCTGCAATGCGAAATGCTGCTCTTCTCCG GCTTTTTCTATGCGCTCTGCTGCTTTTTTCAATCGT  
BW: 3875772 AGGATGTAACAGCTAAAAAAGCTCTCCGCTCCCGGAGA CCCCCATAATCGGAGCGGGAAGTTAAATGGAGAATAAG  
BW: 3879944 AGAGAATGTTATTCTGCTCAAACTGCTGCCAGCGCTGT GCTTTTTTCAATAAAAACAGCGGCTTCCGCTTTCAATAGC  
BW: 3883473 ACACGCACTGCTTTCTGCAAAACTCTGTAACCGT TTAGCCACTGTCATACGCAAACTTTGTGAAGCAGCCA  
BW: 3901362 TCCGGAGCACCCCAAGCCCTGCTGAGCAATTTGGCTCCGC CCGCTTTTTAAATCAAGCAAGCTTTTCAAGAAAAAACT  
BW: 3901805 ATCAACAATCAAAAAAAGGGGCTGCTTACAGAGAGGCA CCCCAGGATAACGAAGTTAGGAATGAACGCAAGCGCCA  
BW: 3916094 TGTATAATCCGCTGCTCCATCGCAAGCATAACCCCTG TTTTGTACTGTTTGGCGCCCACTGATGAACTTCT  
BW: 3919105 TGCCATAAAATCGAAAAAGCCCTCAACCTAGCGGTTGAGG GGACAAAAAGCAGGATGAGTTTATACGGCGGGCGCGG  
BW: 3924300 TGTGGCTTGGGCTATTATACAGTATTTTCCCGCAAGC AAAGAAGCCTGAAGGCTCTTTTATGATTTCAAGCAAC  
BW: 3926658 CACAGGCTTGAACAAGGATGCGAGGGTTTGTCAGACGCTG AGAAGGACACTTTTCAAGTATGCGCTTCCGAAAGTCCG  
BW: 3935836 CTGCCCTGAACGGGCGACTTTTTCAATTTATTTTTCTGC GCGCTTTTTTAACTCACTTTCTTAAATCCCAGCAT  
BW: 3949941 CATTTTTGAAGATACAAATAAAAAAGCGCACTTTGGGT GGTCTTTTTTACGCTTCAATTTGTGAAAAACTGCGGCA  
BW: 3958507 GACTGAAAGCAAGTAAAGAAAAAGCCGCGCATTACAGGCC CGGCCACATTAAGCTTTGTTGTTTCCGCTTTCAAGCCG  
BW: 3967549 GCTGTCTTTGGTGTAGAGCCGCTTTTTCTCCACACGCG AAACCGCATTATAATGATGCTTCTGGGCAAGGCGG  
BW: 3980935 TGGCTTCTTCACTGAAAAATGGCTGAACATGTATCCGATTG CCGCCGCAAAAGCGTTTTTCAAGGAAATCATATACATCC  
BW: 3984531 AGCTTTCTTTGAAAAAATTCATCGCCGGTATCCGATAAA CCGCCAGCCGCAATCAAGTATGCAATGATGTAACCC  
BW: 3990938 CGCTGTTCAATAGTTCAACACATGTGGCTGCCAATGTAA CCGCGTTTCCGCGGATCAAGTGGAAAGCTGCTAAGAT  
BW: 3999400 AAACAACCTCCGAGAACAAAAACTCTCAAGAAAAA AAAAGTTCGCTTACAGTGTGTTTGGTCAAGTCCGATCAT  
BW: 4019530 CCTCGCCAAAACGATAAAAACGACTTGCATCTTCAAGTT CCGCCATAAATTTTCACTAAACAGGCGCATCATATA  
BW: 4033329 GCATAGGCTTCAAAAACTGATGACTTGGGATTTCTTCCA CCGCCGCAAGCAACTCAAGCAAAATACGAGCTGCTGTT  
BW: 4034306 AAGGCACACTCTCGAATCAAGCAAAATACGAGCTGCTGTT TTTGATTTTTACAGAACAGGCTTTTACAGTCAAGCAAT  
BW: 4045938 TGATATTTTTACAGAACAGGCTTTTTTACAGTCAAGCAAT GGTGTTTTTTTGTGCGATAAATCTCAATAAATGATTT  
BW: 4086568 GCTGTTCGATAAGAAAGAAACAGCCCTTCCCAATGGAGAA GAAACGGATTACAGCAATAAAGCGGCGCTTCAAGAACGT  
BW: 4135784 GAAACGGATTACAGCAATAAAGCGGCGCTTCAAGAACGT ATCAGATGAGCTACCGGATGGCATCGGCGCATATCCA  
BW: 4142500 CGAGATCTTCAACCTGATACCCCATGCTGACAGCCTCTCG CAGACATATTCTATTGTTGCGACAGCTACACACTGCGAA  
BW: 4155418 CGGCTTTTCAACAAAAAGCCCTTAAATAGGGGCTTG CCTTTTTCTATTAAAGCTTCTTTTACATGACCTTTA  
BW: 4163185 TTATCTGCTGAAATAAAAAAGAGGCTTGGATGAATCCAAG CGCTGCGAGCAACGACAAACAAATATGAAAGAGCGCAT  
BW: 4193200 ATCATAGAGCGCAAAACAGCCGTTTATATTGAAAAACTT CGGCTCCGCAAGCAGCGCTCAATTCAGGCTTTACAG  
BW: 4202406 CGTTTCACTCCGTTTCTTCACTCAATCAGAACCTTCAAAA

## Supplementary Figure S6 (b) SSE positions of *M. bovis*

FW: 1962 ACCGTTGTTGTTGACTGCTGTTGCGGCCGTCGTGGCGG TCACGCGTCATGGGCTTCTGCTTGGCAGTCCCAACGCTA  
 FW: 2714 CCAAGACGCTGGCCAGGCGCCAAAGCGGGATCGGCGG CTCTGACGCTTGGTTGTGCTTGGTACTGGCCGGGGTGG  
 FW: 4263 TTGATGGTGTGAGCGGGTGTGTTGCTGCACGACGTGTT CGCCGAATGGATGATGCGCGCTGAGCGTGGCGACGG  
 FW: 9644 TCGACGACGACAGCGAGCTGTATGCCGTCACCTCCGCGCG TGCGGTGATCCGACCCGCGGACCGCCAGGTTGCAAGGCGG  
 FW: 10312 AGCCCTATGCCAGCGAGTCCGCCACATCCGCGCCGAC TCCGCGGCGCCGCAACGCCAACCCGCGCCGCGCGTCCCG  
 FW: 12156 GCACCTCGCGGGCAATGGCCCTCCCGTTAACGGCGCG AAGCCGCGCGCGTGCACCGGGCGGACTGAAGCCAAATC  
 FW: 12988 AAGCGGCCACGACGCGCAACGATCGGCGCAGCGACCCG TGTTGATCGAGTCGACACATCTCTGACCCGAAGCTACG  
 FW: 13459 GACCCAGCGCGCAACTCCGTCACACCCGCGCGCGGT GTCTGTGACTAAGTTCACAGACCAATAGCCATCACGACTC  
 FW: 14206 AGTGTCCCTTAGTGTGCTTGTGCGGGGCTGCTGCTGG CCGCACGATGGGTTGTCGGCGGACCGAGATCCGCGC  
 FW: 14382 CTCGTCGACCGCGGATCTGTCGATACCGGCTTGGCGGCC ATGACGCGCGGTCGCGGAGCTGGCCGGTGTGGCGCTAT  
 FW: 16590 GGACCGCTAAGGTTCCGCGCCGACAGCAGCAGCGAGG TCCGCTCGCATCGGTGAGCACTTTGGCGCCTCCGCGCGG  
 FW: 18462 ACAGCGCGCGTGGCTTTGAGCACCAGTAATTAGTGGCTC GCCGTTGACGAGTCCATCACAGGTAGGCGTGGCACCCT  
 FW: 19899 GGTGAAGAAGTCGCGCAGCGCGCGCCGAACAGACGGCGG TCGACCCGTTCAATATCGGGTCTCGGCTGTTTAGGGC  
 FW: 22385 TCTTCCGGGTGGCTGATGGCAGAGCGCCGCGCGCGCGG GTTGGCAGGGTCAGTGGTGTGCTGCTGCTGAGACCGC  
 FW: 23198 AGGACAGGGTACGAGCGCCACTCTCCCCGAAGCGGG TGGGGTACCCCCACTTGTGGGGCGCGCCCCACCGCTT  
 FW: 26004 GGCAGGACGCGATTGACAGCGCCGCGGCTTGGCGCGCG TGACATTGGCGATGCTGTAGTCACGCGCAGGAACGGCTCGC  
 FW: 26346 GCGCGCGCAAGCGCCCGCGCGTCCGCGGATGCCCGCGG CGATCACCGGATACAGTTCGCCGCGCGTGAACAGGTG  
 FW: 30316 GCGATGCCGATGACCGCGGACCGCGTCCGTCGGTCCGG CGCGCGCGCGCACGCGTCCGGTCCGAGCGCGGAGTTGC  
 FW: 32382 GATCGACCGCGCGCGCGTCCGCGGATGCGTCCGCTCGAG TCGCGATGCGCGAGCTTCGCGAGATAACGGGGCGGCTCC  
 FW: 32570 GTGACGAAAGCGCGGCGCGCGCGTCCGCGGCTCGTGGG CCGTACAGGACGCGCGGCTGAATGGCGCGTCCGCGTTAAC  
 FW: 32927 GACGCTTACCGAAGTCTGTGACCGCATGGCCACGGCGG CCGCAACGCGCGCGCGCGGAGGAGTGCACCTGTTGCGG  
 FW: 33525 GCGACGAGGTTGAGGCGGAGAACGGCGACGGTACGGCGG CCGCTCGAGTGCATCGGATCTGCGAGGATCAAGCCCAT  
 FW: 34516 TCTTCCGGGTGGTGTGACCTTCCGTTTCTCGAGTGGGG TTGCTACCATGGTGAACACCGGCTGCGCTGCGGTCGA  
 FW: 35801 GCGCTATGCAATCCGGGGACATGATCATCAAGACGCGC TGAACACCGCAGCTGTTGACGCGCGCGGAGTTCGCGG  
 FW: 35996 ACCGTCGCCGACTGGCCACATCGCCGAGCTTGGCGACC GGCACGGCTGGCGGCTATGTTGGACGAGTCCATGCGCTG  
 FW: 36232 TCCAGTCACTGTGTTTCCGCGCAGCTGCGCGCGCGCGC GCGCTGCCACCGCGGCTCTGCGCGTCACTGGCGTGA  
 FW: 38092 TTTGCTCTGGAGTGGCTGATCAACGCTCACACAGCGCG GCGCGGACATCGAAGGATCGACCTACACAAAATGCGCGC  
 FW: 38967 ACTGATCTTCACTGAGCTCTCAAAACCCCGGGCGCG TCGCGGCTGGGCGGCTCATCGACCGGGCTTGGTGTGAT  
 FW: 39600 TCGCGCGGCTGTCGACGAAACCGCGCGGATTGGCGCGG CGCGGTCATCAGCTCGCGCAACCGCGCTCGCTGCGTGACC  
 FW: 40172 AAGCCGATACCACCATACCGGGACGACGCGCGCGCGG CCGCGACTGGATAGTGGCGCGCGAGCAACGCGCCATTT  
 FW: 42467 GCGACTGGTGTGAGGGTCCCGCGCGGATACCGAGCGC CCGCGCGGATGCTCCACCGGTCGCAACCGGGTGGCGGG  
 FW: 42579 GCACTTGGGCTGTTGTCGCAACTCGCATCGGTGGCGCGCC GTCGGTGACGCTGCGACGCGCGGTTGACCGCAGCAG  
 FW: 42922 CCGGTCCGCGATACCGAACCGCTCGGCGACGTTGGGG TCGGCGACTGAGTCCAGCGCGCGGCGATCGGAGTGTGAT  
 FW: 44704 GACATACGCGCGCGCACACTGTTGAGGCGCATCGCGCC TACCGGCTGGGATCGCGCGCAACTCAGACTCGAGCGCA  
 FW: 48511 CATACTGGCGACACTGTCGCGAGGGTCTTACGCTCTCCGC GCGCGGATCAGCAGCGGATGTTCCGCTGTGCGCGCGGGT  
 FW: 48589 GGTTCAGCTTCCAAGCGCGCTTGTACCGGGCAGCGC AGCCGCGAGTCTGAGGCGGCTGCCGCTGTGCCAACC  
 FW: 48923 AGCGATGTCACACGATGTCCTCGACCGCGGACGCGC TCTCGACGGCGGTAATGGGGGCGTGTGCGGCTGCGAG  
 FW: 49192 CGCGGCTCTGCTGGTGGTGAAGCGCGCGGCGCGCGC GCGCACGAGTGTGATCGCGCGCGGCGAGGCGCTGCGCTG  
 FW: 51074 GTTCCGACCGCAACTGGGACTCGAACCTCCGTCGAC GCCTCCGCGCGGTAACGACTGGTGTGCTACTCATTAAAGC  
 FW: 52131 GCGCCAGCGCGCGGGTAGGATACCGCAGGACTCGGCGG TCGTCCGCGGCTGACGCGATCGAGCGCGCATACTCCGG  
 FW: 52295 GCACTTGGCTGGGCGCGGCTCAGCACCGGGGCGATCCC GTCGGCTTTGCTCCGGATCCGAGGTAAGTCCAGCGGAG  
 FW: 52435 AACCGAGCGCGCAGCAAGCCAACTGGTGGCTTTCGCC CCGGATTTGAGCGCGGATTTGTGCGGGTGGCTCTCGACC  
 FW: 53280 ACCATCAGTCTGTCAGCGCGCGCGCGCGGCGCGCGGAA TCCCGCGCAGCGTGGTCAAGTTCACCGCAGCAGACTGA  
 FW: 57185 TCCATCGCCAGCGCGCGCGCTCTGTCGCTACCGCGCGC AGGGGCACTGCGGCTTTGTGGGGAGTCCGACACCGGCTGG  
 FW: 57647 CTCACCACCTCGGTGTGACCGCGCGGCTGGTGTGGCGG CTGCGGACTGCTCAACGGCTTACCAGCGCACCGCATTGG  
 FW: 58951 CGCCAGCGCAAGGTCAAAGGCGAGCGCGAGCGCGGG TTTGGCAGCGGATCCGCTCGGCGCGCGCGCAGACGACAG  
 FW: 59249 AGACACCGCGCGCTGTCGCGCACTACATCAGCGAGCGCG CAAGATCCGCGCGCTGGGTCACGGGCAACTGCGTGCAG  
 FW: 60682 CCGAATGGATCGCGTGGGCTGTCGCGCGCATCGGCGG TGCTCCCTACCTGCACACCTGATCTGACGGTGGCGAGCG  
 FW: 60897 CGCGCGAGCGCAAACTACGACGTCGCGGATCGCGCGC TGTGGAAGACTTTGTGGCGCTTGGAGACTGCTGCAACCG  
 FW: 60978 GACATGACGACACTGATCGCATCGCTTCCAGTGGCGGCC TGGCGCGGGTGGTGGCTACCGGCTTACCAGACTCGACAG  
 FW: 61767 TCCCGAGCGCGCGCAAGGAAGTGTTCGGCTTCGGCTGG CTCCGAGCGCAAGTCAAGGCGCAGCGCACCCCGCCCTTT  
 FW: 62031 GATGAGCGCAACTGGCCCGGTCGAGGCTCTCGCGCGCGC ACTCGGATGGGCTGCGTCCGCGCAGCTACTCGCAGCT  
 FW: 65587 GCGTCCGACTGGCGAGCGATGGCGCGGACTCTGCGCGGG CGCGCGCTTTGGACAGCGCGCAGCGCGCGCCTGCTGCTG  
 FW: 65999 GCGCGCACGTTGCCAGGTACACCGAGCGCGCGCAGCGG CCGCGCGCATGCGGCTTCTGACGCTGATGGAATCCCCAT  
 FW: 67543 GTCGTTGCTGCTGCCAGCGCGCGCGGTCACCGCTCC GCGCAGCGACCGCGCGCGCTGTTGCGGCGTGGCGGGTGG  
 FW: 71251 GTCAGCTGCTGTTGAACCGCGCACCGAGGGCGGGTCCGG TCGGATACGACCGCGCGCTGCGCGCAATTTGGATAGTGA  
 FW: 74598 TGTGGTCAAGTGAATCACTCGCGTGTAGCGCGCGG TTACAGTATCGGGATTGGCGCGCACATGATCGGCGGT  
 FW: 75494 CTGGCTGTGCGCAACTCGACAAAGGCGAAGCGCGCGCGG CACGATCACCGAGGCGCACCCCGCGCGCGCAAGTAGAGCTT  
 FW: 75845 CATTTGACGACCTCCAGTGGGAACCGCGGTACAGCGCGGG TCGCGCTACCGCGCAAGCGCAAGCTCGCAACCTGCTGTT  
 FW: 76602 CCGCGAGGATTTAGCAGCACTCGCGCGCGCATGGCGG CCGCGAGCGCAGCTCGCGCTGACAGCGCAGCTCGGCTCCG  
 FW: 76766 CGCGCGCGCGCAGCTGTAGTGGATTGCGTAGTGCAGGACC GCGCGCAGCATGCGCGCGCGCGCTGTTGTTGGGGCGGTGAC  
 FW: 79769 AAGATCCCAACCGCGCGGGTGGCAAGGTACGCGCGCG TGGGATTTCCACAGTGGCGCGCGCGGCTGTTGCGCGCGG  
 FW: 81370 TGAAGTGCAGTGAATCGATCTGATCGTGGCTGTTTT GCTGTGATTGTGGCGGTCGATGCTGCGCTGGTGGTGT  
 FW: 81531 CTCGATTACAGCGCGTGTGATTCGCTGTTGCGCGCGG TGTGGGCGTCTGCTGCGCGCGGCTGTTGGCACCAGTGT  
 FW: 82232 GATCCCGCACTGATCTCGCTGACGACCGCGCACACC TGGATTTATCCAGTGGAGGAGGTCGTCGTTGATCCCG  
 FW: 83417 CCGTGGCAGCGCAGTACCGGAGCGCGCACTGGCGCGG TGTGGCGCGCGCGGAGCAGTGTACCGGTGACCGCA  
 FW: 83485 ACCGTTGACCGCAGATGACATGCGACCGCAGGATCGCC GCGCGGTCGCGCGGGTGTGACGGCATCGAGACTGACAC  
 FW: 84134 TCGAATATTTCCGGCCGATGTAGTGGCACTGTGGCTGG CCGAGATGGACTTTCCACCGCAGCGGCTGCTCGACGGG  
 FW: 84683 CCGGTGCTACGGATCGCGCATGTCGCGCGCGCTTCGG TGTGAGGCGCGCGGCTGAAGTCTGGTACGTTGGTGTG  
 FW: 86809 GGAGCAAGAGCTGATGGCCCGGATGGCCACCTTGGTGGC GCTCGGGGGCGCGCAGCGCGCGCGATCAATCCGGCGAG  
 FW: 87198 TTAACGGTAGCCTGGCGCGGCTCGCGCAAAATGGCTT GCGGACCGGATCTGAGTTCCAGAAGTGGCGCAGGACTGG  
 FW: 89081 TTCCGACGCTGTGCATGAGCCGCGGCTCGCGCGCGCC AGCCCGCAAGCGCGCGGAGGTTGTCGAGCTGACCGTGA  
 FW: 89872 TATTCGATGCGCACCAGATATCGCGAGCTGCTGGCGG TGGCAGCAAGGTCGCGCGAGGTTGTCAGCGCGGGTGG  
 FW: 90158 GCGCGCTTTGGCCGGTGTATGACGCGGAGCGGTTCCGGG CGCGGCTGCTCGCGCGCGCAGCGCGCGGCTGCGTGTGTTG  
 FW: 90397 ACCCGTCGACGTCGAGATCGCGGCTGCCCGCGCACACC GCGCGCATATGCGCGCGCTGCGATCGTGAACGGGAAATG  
 FW: 93726 CAACCTGGAACCGGGCTCACATCAACCGGTCGCGCGCC GCGTTCGCGGTTGCTGATCGCGCTGTTGTTGATGACAC  
 FW: 94077 CCTCTTGTATCACCGGTTGGCGCAGCAGCGCGGCGACG TCACCGCGCTGTCCGCGCAGCGGCTGCGCTGCGCTGTG  
 FW: 94176 GGTTCGGGGCGCAGTTCGGGCTGGCGGCTGCTGCGCG CCGATGCGTACGAGTGGTCACTGCTGCTCATCGGATC  
 FW: 95038 CCCACGGGATCGGCAAGCGGCTGTTTTCGCGCGCGCGG TCAGTGCAGGCGCGCACAGCTCACCGCATCGCGGATA  
 FW: 95354 CCGCCGCGGATCGCGCGCGCGCGCGCGCGCGCGCGCGG TTAGTGGTGGCAGTCTGCTGCTGCGCGCGCGCATCAC  
 FW: 97652 TCAGTACGCGCGGTCAGGCGATGACGCGATGGGGCGGT TCGGTGTACGACAGCTGCTCAGGGTTCGGTTCACCA  
 FW: 101594 GGCACACAGTCTTACGCGCGGCTGATCGTGGAGGCGG CCGCGGTGGCGCGCGCACACCGTTCGCGGAAATGGTCCG  
 FW: 102344 GCGTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG TGGCGCGCTGGCGGATCGTGGTTCGCGCACATGCTGTTG  
 FW: 102425 ACCGTTGACAACTCCGAACTCGCGCGCGCGCGGCTACTC GCGTCCGATGACGAGGTGATCGCGCAGATCTCGCGGAA  
 FW: 103131 GCGACGAACCGCTCAGAACCGCGCGCGCGCGCGCGG CCGTCCGCGATAGCGCGCGCGCACCATGATCACACCGAGC  
 FW: 103689 TGTGATCGCTGGTGGTTAAAGCTCCGCGCGGCTTGGCTT GTGCGAGCACGGTGGCGGGTGGTGGTGAAGCGCGGCTGG  
 FW: 104212 CCGATCACATCGGCGATGGTAGCAGGTCGCGCGCGCGG TGAAGCCTTCCGCGCGCGGTTTGCAGGTCGTCAGGTTG







FW: 266411 TTTGCCGGATGGCCGTTGTTGCGGACATATCGGGCGGCGG CGCGGGCGCCCGAGGTAGTGCTGAGGCCATCTCGTGC  
FW: 267707 GTACCCGGCCCTGCACCTAGACATCTGCGCGGTGGCTGG TGGCGGACGCGCTCTGTGACCATGTGCACCGGCTGCACAT  
FW: 268210 GCGGCTCGCCGCGGTGCTTTCGACGTGGTAAAGTGTGCG GCACCCAATAGCCGCGCGCCGAGCGCCGACGACGAG  
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FW: 272530 CGGTGAGTACGCCCTGGTGCAGTCCGCTGCGGGGAAGC GTTGCGCGCGTGGGAGCGCCGCAACGAACCCATATCGGTGCG  
FW: 272638 CTCTGACTGGCCGGTGCACACTGCGGGGCGACCTAGTCTGA TCGTGGCCGCTGGCACGATCCACTGACAGGGCTGACCGGTC  
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FW: 276252 AAGGAGGCCCTGCGCGGCGGTGACGTGGCGCGTGTGCGA TCCGGCTCGCGCGCGCGTGGTGGAAAGCCGCGGAGGCTG  
FW: 276848 CCGCGCTGGCGTGGCGAGGCTGTGCGCGTGTGCGCGG CGGCTTTCGATGCCAGCACCCGCGACCAACTCAGCCAG  
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FW: 436029 TCAATCGGGTATTGGCGGTAATCAACGTGACGAAAGG CCGTCCGCTGATGCGCGTCCCGCGCATGCGAGATCATG

FW: 437748 CCGGCCACCAACAGGTGCGTGGCCCTTACCCCTTGCCCTC GTCGCCCATTTGGGCGCGATGAGGACGATCGCCGGCATGA  
FW: 438393 CCTGCGACCTGCGGTAGACGGCCGGAAAGTGGCGCGG TGGATGGCGGGCGCCGGCCGATAGGCACACCCGGTGC  
FW: 439570 CCGGTACCGCGTATGCTGAGCGCTGACGGTCTTGTCT GCGCCAGCGCCCTTCGGCAGCACCCGCCAGCGACCGAC  
FW: 440976 ATCGGTATCGGCACCCGAAAGCGCTGATTTGGTCTCG ACCTGTCACCGAGCTGCCGGATCGCCCGGAACTCGGG  
FW: 441057 TGCTTATCAAAAGCGAACTCGAAAGCTTGGCCACTGC TCGACGGCACCACCGCTGACGATTCGAGTCGATCGAC  
FW: 442593 GCGCCCGCTGGAAACGAAGTGAACGGCTTGGCGTCGG CCGGCAGTCCGAGCTTGGCCCGCCACCTGTTGCCCTTGC  
FW: 443894 ACATCGCGTATCCGGTGTCTCTGGTTCGACATCGTCGG CGGAGTCGCTGGGTGGGGTGTGACCTTGGCGGGCTACT  
FW: 444034 TTCTGTCTACTGTTCGCCCACTGGTCTCGCGCGCGGG TCTACCGGGCGCGGCTAACGCACCCAGAGCGACCCCGAC  
FW: 444227 ACCGCTCTCGGACGGACCGCCCTGCTCACCGCGCGGG TGGGCACTCGGCTTCGATCCAGAACCCCGAACACC  
FW: 445006 CCGGTGCGAGCGGACTGCGGTTGATCGGGCGCGCCGCG TCGGCTGCGGGTCGCGAGCTCGCGCTGACCCAGCAATC  
FW: 447083 TCGTGGGATCGAATGGTCAATGGCTCGTCGGCCGGGG CGACAATCGGGTGGCAGGACATCGGGCAGTGTGGCGT  
FW: 448552 GTCACGGCTCGGTTGGAGTGTGACCCGGATCGCGGGG CACTCGCGAGGAAAGTCCCGCTCGGAAACGGTACCCGC  
FW: 448683 GGTGATTTTCATGATGAGCAGCACTGGAGGGTCTGGTCC GCGGTGCGCACGACCGCCAGGATGGCGGGTCCACCAGAT  
FW: 452370 GTCGCGGATCGAGCTGGTCCGACGGGTCCAGCGCCGCGGG CATCCAGCACGGGATCCCGGGTTCGTAGTGCAGCTCGACC  
FW: 454119 GCGCAGCTTCATCATCGGCAGCAGGCTGTGCCCGCGCGG ACCACCCGCGCTCCCTCCCAACCGATCCAACAATCCGAT  
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FW: 455499 ATCGCGCCACGACTGCTTCCGCTGGCTCGTACGGCGGG CCGCCGCGAACTCGATTTTCGACCGCGGAGTCTCCATG  
FW: 455627 GACCGGTGCCGGGTGGCTTACCGCCGGCGGGTGC GGTGCCACGGCGCGGTGAAATCTGGGCTGCAACAACA  
FW: 455788 CCGCGCGGGCTGATCGAGCTTCTCTGCTCGGGCGGGA GCACTTTCGCTGAGTGTGAGCTGATCCACCAGCGCGT  
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FW: 518524 ATCCAGGGTACTGTGAATAGCGCCAGTACGGCCCGG TGTCCGGTTCGAGGAGCCAGCGTCCAGCCAGGTTCTGTT

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FW: 519960 TACTACCAAGCTCAATGCGCTGGTGGATGGCCGAGG CGCTGGCCGCGACCCGATGCTGGTAAAGCGTTGCGGCG

FW: 524065 CAGCAGCGGGGGGGGTACAGCAACACCCCGCGCGGG TCGACACCTAGCCGAGCGAAGGTGTCGGGGTGTGACGCG

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FW: 544482 AGCGCGACTGCGCGCGGCGGCTGCGCGGCTGGAGCGGG TGCACCGGCTACGCGCGGCTTTGGTGGCATGCCACCC

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FW: 544836 TTCATTGCAAGATCTTGAAGATCATCACCGCGGTGCGG TGACTGGGACCCGAGCGGACTGTCAACGGGCTCCCG

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FW: 557791 CACCGCGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGG TAGCTTCAAACGGTTCAGTTTTTGGCGACTTCGAAAA

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FW: 579863 CGATCGAGCGGGGCGAGTCAAGTTCAGCGGAGCGCGGACC CTTGTTACCGGACATCGCGGGTGGCGGCTGCAAGTGGT

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FW: 591406 AACTACTGGCGCAGACTATTCGGTGGTGGTGGTGGTGGG CGCGCGTGGCGGAGAAAGCGGAGCGGTTGCTGCTGCTGG

FW: 592012 TCAGCGTGGCGCGCGGTTACTGCGCGGGCGGTACGA CGCGCGTGGCTGGCGGAACTGAAACCGCGGCGGTTTGG

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FW: 602187 GTGGTATCGCGCGGCGGCGGATGGCGCGGCTGTCGGCGG TACTGTGACCGTGGCGGCGGCGGCGGACATTAGGTTGCT

FW: 604165 GATGGCACGGATTCGCGCGGCTGTCGGCGCGGCGGCC GCGGAGCGGTTGGCGGAAAGCGGATGGCGGCGGCGGAG

FW: 604718 CTTGCTGGTGGAGCACACTTCAAGGATGGACCGCGCGGG CCGTCTGGCGGCTACCGCGGCGGCGGCTCGCAAGCGG

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FW: 605798 CATGAGTTCTATCCGCGGCGAGCGCGCGCGGCTCCCG TCCACCGTGGGATGGCGCGGCTGGTGGCGAAACCTCGTT

FW: 605893 TGGTCTGGCGGATGTTGTTGCGGCGGCGGATTGACGAGCC CGCGCGGATTACTCTCATGCGCGGCGGTTGACAGCACCC

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FW: 606555 CCGCGATGGGCTACTCGATGGTGGCGGCGGCGGCGGG ACCTGCTGGCGGTCGGGTTGGCGGCTATAGGTTCTGGGA

FW: 609978 CGGGACAGCAGAGAGGTTTCAAGCGGAAGAAGCGCGGTG CGCGCTGAGAGATCACCGGAAATTTAGGCGGCTGACAG

FW: 610242 GTCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGG CGGCTGGCAGGGTGGCGCGGTTGACTGGTCACTTGGCA

FW: 610686 GGGAGCGCTGGGCTGCGCGGCTCCGAGGTTGGCGCGG ACCGATCGCGCTGGCGGATCGCGGGTACCTTTCCGTGCT

FW: 611401 TCATTGGTCTCACTCTGCTGGTGGCGGCTGGTGGTGGCAA TCCAGGGTGGCGCGGCTTCAACCGCGGCGGACTGGAT

FW: 612160 CAAGCGCGGCTGCAACTGAGGAGCAGGATCCGCGGAG TGGCGCGCGGCGGTGGAGGAGCGAGCAGTGGAGTCA



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FW: 867226 CCGCTGCGGGTACCCGCCCTGGTGGTCAAAGACGACC GGATAGCCCGCGAAGGGTGGTGGTGCAGCGGACCGC  
FW: 869320 CCGGCGCCGTCAGGGATTCAGCGCGGACCGGAAACGG CGTTGCCCGCAAGTACTCGGCTCACCGCGAGGGTGG  
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FW: 871061 TGAGCCGTTGGCGAGGCACTGACGCGTCCGGCCGCTCC TGTTGCAAGGGCGGGACCCCGGCTGCCCTGGCGCG  
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FW: 873326 TATCTGCCCTTCTGCGCCACTAAGGTGCTAATGGCGG CCGTGGCGGGGATGGTGGCGAGTCCGCGCACCGTTG  
FW: 874146 GGTGTGGCGGAGACGGATCGACATTTGGTGTTCGAGGCGG TTGAGCCGGGATTCGATTTCCGCGGCTCCGCGAGGGCGAG  
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FW: 1034729 GTGTTCAAGCTGCGGCGGCGGCGGCGGCGGCGG TGCGGCGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
FW: 1034910 TGCGCGGTACCTCGGGATGGCGAGATCGGCGGCAACG TGTTGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
FW: 1034998 GCTCGGATGATGTTGTTGAAAGCGATGAGGACATCGCGCC GGCCGGGCGGAAAGCAATGCGATGGCTGCTCCAGGCGCG  
FW: 1035737 CGAGGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGG TGGAATCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
FW: 1036533 GTGGTACCGAGCGGCTCAAAAGCGGCGGCTAGTGGCGG TCACATGCGCCCGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
FW: 1039864 AACCGCTCCGGGGGCTGATGTTGAGGTTCCACGCGCGG TCCCGTCTGGGTCAGCCCGGCGGAGCGGCGGCGGCGG  
FW: 1040475 TGCTTGAACGATTGGTGGCGGCGGCGGCGGCGGCGG TCCAGGCTTCTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
FW: 1041171 CGTGGCGAGTCCCATCGCGGGAACCGCACCGCTCGCGCC GCCCGTCAAGTTGACCGGTCAGCGGATTCAACGGGACATC  
FW: 1042626 AAATTCGTTTGCATACCGTGTGGCGGTTGACCGCTGC GCGCTGCTGCTAGCAGCGGCGGCGGCGGCGGCGGCGGCGG  
FW: 1043241 GGGCGAGTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGG TCCAGGCTTCTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
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FW: 1049016 ATCTGGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG CGAACGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
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FW: 1057725 CGTTGCGGACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG GAAATCGGAAAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG  
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FW: 1271441 GCGTCAATGGGAGTCCGAGAACCGGATACATTCATGGCGGG TCCTGTGAGCGGGTTCGAGTGTTCGAGTGGCGGATCG  
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FW: 1276204 GCAACGTGCCCGGGGGCCCAACCGCACATTACGGCAG CTGGCGACTGGTGCAGGACGTCGCCCATCGGAGAAACG  
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FW: 1418349 GACTCATCTGAGCAATGAAGCTTCTGCTTTGGTGTGG CCGCGCGGTGCCGGCGTGGCGAGCGGCAAGTCCGATGGC  
FW: 1418717 AGTCGGTGGCGATAAATGAACTCGTAGCTCCCGCGAA GCTCGGATCGCTGCTGATGAGCAGCTCGTGGCGGTA  
FW: 1419480 TCCAGCGCTGCTGCTGCGCGGCGGCGAATCGCGGG GCGCACCGCGCGGCGGAGTAGCCGAGGTTCCGATGAAC  
FW: 1420418 CCCCAGAAGTCGCGGACCGCATGTTCCGGGGCGGGCTTG CCGCACGGGCGGTCGCGCGGTGGCGGTCACCTACAC  
FW: 1424442 GAGGATGGGATGGATTCCTGCACTGCCGACTGGCAG CTCGGCATGACCGGCTACTTTCTCGCGGTCGCGCGCAC  
FW: 1426170 ACCACCGGAGAAATGCTCGCGGCGGCGGCTCTAGGCTGGC AGCCGAGGCTGCGATGCCCGCTCACGGAGCAACCCAG  
FW: 1426524 GCGCGGAGCGCGAGCAGGCGGCGCGCGCGCGG CCGTCGATCGCGCGGTCACAGCTGGCTGATCCCGCG  
FW: 1426767 ACCGAGGAGTACTGAGTGGATCGAAGTCTGCGCGCAG GCGGAGACATCCACCGCGGCAACCGTCTACGAAACCGC  
FW: 1427324 GACCCCGCTCAGTCTGCTGCTGCGCGGCTCGCGCGGCTC CTCGCTCGGTGATGACCGCACCGGACACCCCGGCT  
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FW: 1429022 AACAGCCCTCAGTCTGATGCTCCTCCGCGATCGCGGACC TCAACAGATTCGCTGCGCGGTGGTCCAGGGCGAGACG  
FW: 1430764 TCCAGGCGTGGCGTGCCTTATTTGAAATGCTCGGTTGGCGG CATACTGGCGGCGAGCAGCATCGGTTGCGGCAACATA  
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FW: 1602818 GCGCGCGGGCGGCTATCCACACCAAGTGGCGGCGGCGG GGCCCGGATGAGTGTGGCGCGCATCGCGGATTTGTTG  
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FW: 1604242 GCCCTGTGTTCTTGGCGCGGAAATTCGCGTGTGGCGG CCGTGGCATCTTACCGGTGAGGATTTCCGGTATAGGCC  
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FW: 1606272 ACGTGAGTGTGGAGGCGCGGACACCATCGCGGGGG AGCACGCTCGGTGAGTGGCGGTCGCGGGTCCATCCAG  
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FW: 1619326 CCGGGGCCAGGTGAGGCGGATGGTGGCGGCTGGCGCGG AAGTACTGATTCGCGCGAGCTGCTGTCAGGGCCGCTGA  
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FW: 1794496 GCTCGGAAAGGCGCAGCGCGCTGGAACCGGTTGACCGCC TGTCTTCCGCGCGCACGCTGCTGCGCGCGCGAAGGTGCG  
FW: 1794591 TCGAAGAGGTGGAGAAACACCGCGCGGCTTTACGGCGG TGTGCTGGTTACTTGACTTCCGCGGCAACGCTGACTTCC  
FW: 1796310 TGGTGGCCCGCTGACTGCTGCGCTGACCGCGCGCGGG CCGTGCAGCGGTTGGTAGGCGAAGGTTGTTGACACAGCG  
FW: 1797307 CTCGATGACCCAGGCGTACGGCTGGTGGATTGAGGCGAG CCGCGACGCGGTTGAGACCGCGCGGATGCGCGGACATTC  
FW: 1798164 ACTCTGACCTATTCCGACGAGGCGCAACAGTGGCTGG GCGCATCGAAGGACATCGGTTGGATCGCATTTTCTGGTCC  
FW: 1798321 TGGGGGTGACCGGGCGCGGGATCGGCTGTCGACGCGCGC ACCGAACTGTTGGCGGGGTAAGGCGGTTGCTGACATAC  
FW: 1799811 CCGAGCCGAGGTTCCCGGAGAAAGCGCGCCATCCCGCA TCCGCGCAAGCGGATGAATTTGGCGGTCGCGGACCTGGGG  
FW: 1801023 GCGTATTGACCGCTGCTGATATTGACCGCAAAAGTCCG CGACCCTTGGGGTCTCCCTTGGCGGATGGAAGTACCGGG  
FW: 1801377 GACTTGGCGCTCCCGATACCGGTGATGTTGCTGTTGGCGG TCGCGGTGATCGCGTGGAGGCTGTCGCGAACCTGCCAGCG  
FW: 1801737 ATGAGCGGGTCCGGTAGCCTCCGACGCGCACCGGGCGCGC GGTGCGGCTGCTCGCGGCTGCGAGGCGCGGAGATCAGGT  
FW: 1802273 AATCTGAAGCGATCGTGTGCGGTTGACGCGGCTCATGG TCGCTGGGGCGCACTAGGTTGAGCTGCGCGCTCGAAGAG  
FW: 1803960 TTCTGTTAGCCAGATGACCGATGGTGGCAGCGGCGCGCGC AGCCGCTGAATGCGCAGCGAGCGAACCCGGAGGTTGACTGTG  
FW: 1804860 GAGATCTGCTGCGTGAACAGCAACTCGACGACAGCGGCAAG CCGAGCTGGCGAGGTTGCGCGGCTACCTAGCGCGCGC  
FW: 1806492 CCGGATGTTGGCGGGGATGCTTCTCGCGCTCGGGCGG TTTGCGCGCAAGCAGGCGCAACACCGCGGCAACCAA  
FW: 1806719 GTGTCACAGTCCCGCTGTGACCGCGCAGCGGCGCGCC GCGGTCGTTGGGGCAGCGGTTGATAGATAAGGGTGGCGG  
FW: 1807101 TGCGAAACATCCGAGGTTCACTTCGACGACCGGTTACCG GCGCGCGGCGACTGCTGCGCGATGGCGGACGACGACCG  
FW: 1807430 TCATCCACAGGCGCCAGCAGAACAGGTTGTTGGCGGACGG TTTCTGGGACAGCACCGCGCTGCGCGAGCCACGACGAT  
FW: 1812621 GCGATGATGTTTTCGCTGGGTTTAAAGCCGCTCGGCGA TGTGCGCGGCAACATGTTGGCGAGCGTCTCGGAGCGG  
FW: 1812849 GCGACGAGAACTCCAGGGCAATCACGACGCGCGGCGCA CCGCGCTAGGCGCAACCGCTAAGCGGGTGGTTGATGCGC  
FW: 1813680 GTTTCGAGAGGAGGATGAAATTTGTCGCGAGGCGCGG CAGCGGCGAGGAGCGGCTGAGCTGGCGGAGCTGCAACAG  
FW: 1815447 GATGTAACCGGTTCCGGCGGCTATCTCATCGCGCGC GCTCTCAGCATGCTGCGGCTGCTGATGCTGCGCGGCGCG  
FW: 1815697 CCGCAAAACCGGTTCCGAGGTTGCTGCGGTTACGGCGG TGGCGGGGCTACCGGTTTTCGCGTGAAGTCAAAAGCTTTC  
FW: 1818751 GCTACGCGCGGAGCTGGGACCGCGCGGCGACTGAGTGGC GAGCTGCATCTGGGGCGGAAATTCGCGGATTTTTCGCGCC  
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FW: 1820935 TCGGCAACTCGGGCAGCCGAGAGGATTTGTTGCGGGCGG CCGCGACGCTTGGAAACCGCGGCTCAGCGCTTCCGCGAC  
FW: 1821901 CGCTGCTCGGCGACCTGGGGTCAACAGGCGGTCGGCGC ACGGCTGAGTAGTTCGTCGACGCTGGCGAGCTCGGCCCC

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FW: 1842671 CACGCTGGTGGACGATGTCACCCCTACGCTGTGCGCAGG TTGGCCGGGCTGTGCAATCCCCCTCTGAGACCGCGCGG  
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FW: 1890704 CGCCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGG TCGCGCTTATGGCGCGCGCGCGCGCGCGCGCGCGG  
FW: 1891962 TACGACCCCGTGGCGCGCGCGCGCGCGCGCGCGG TGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGG  
FW: 1894168 GAGGTCTCGAGGGTGGCGTGGCGCGCGCGCGCGCGG CCAGCGCGTGGTGGTGGTGGTGGTGGTGGTGGTGGG  
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FW: 2003280 GCTCCGACGTCTCCGCGGAGGACCTGCGCTAACGGCGGG TGATCATCTGTTGGTAGCCAGCGGCTACGGCGCGAGAGT  
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FW: 2071153 CACGGTGGTGGCGCAACCGGAAAGGATGGCGAAGTGGCT CCGTCCGCGCGCGCGCGCGCGCGCGCGCGCGG  
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FW: 2074268 ACCGCGATATCACAGTGGCGGCTATCGCTAATGGCT GGCTGGCGCGCGCGCGCGCGCGCGCGCGCGG  
FW: 2074342 GATGGAGCTACTCGGAATCCCAATCCGGCTGGCGCGCC AGTTTGGTGGCGCGCGCGCGCGCGCGCGCGCGG  
FW: 2074441 GACAGCGACTGCGCACACCGTGGCGCGCGCGCGCGG GCGCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG  
FW: 2074730 CCGGGCCCCGATGTCGGAAGCAAAACGCGCGCGCGGGG CGGCGCTATGGGCTGGCGCGCGCGCGCGCGCGG  
FW: 2075109 CTCTCTCCCGCAAGCGGGCGGTGGCGCGCGCGCGG TAGCGGCGCGCGCGCGCGCGCGCGCGCGCGG  
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FW: 2078698 TGGCACCGCGGGGCGAGCGCGCGTACCGCGCGCGG GCGCGCTCCGCGCGCGCGCGCGCGCGCGCGG  
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FW: 2081437 GCGCTGAGCGTGGAGGCGCACCGCGCGCGCGCGG CCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG  
FW: 2082589 TGCAGTCCCGAGTTGAGGCGCGCGCGCGCGCGG TGCTGGCGCGCGCGCGCGCGCGCGCGCGG

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FW: 2537832 CGCTCGTGTTCGCCGTACCCGTGGCGTCCGCGAAGG TGCCGCTGGATCGGCCGGCCGCGCTGGTCCGCCGTTGCG  
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FW: 2538484 GCCTGCTCCATTCCAGCCGCAACCTGATCATCTTCGTC GTCTCGGTGCTATTGGTACCCTGGTGGTCCAAAGGGAC  
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FW: 2707291 ACACGAGGTTGGGACCAAGGTTGGTGAACGGGTAGTCGG CGATCTTCGGCTTGGCCGCGAAATCGCCGACACAGCGAG  
FW: 2708587 CGCTGCATGCTGCTGCTGCGCGCGGCGCCAGCGCGGG ACGCGTGTGGTCTTGGGCGGACACTCAACCGACCCCG  
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FW: 2712119 CGAGCACCGCAATCTGGGTGACCGGTCGCCGCGAGCGG TGGCTCGGTGCGGACCCGGTCCGCGACACCATCACCCGCT  
FW: 2712442 GCAGCGTCTGTTGTCGACCCAGAAGCCGACTTACCGCGTC CCGCGGCGCCGCGGACGATTGCGGGCTCCAGCGAACCG  
FW: 2714691 CGAACTCATGCGCAGCGTTTGTGCCAGAGCACTCGCCCC GGCCGGATTGTGCGGCGTGCATGAACACCGTGGGTGCGC  
FW: 2715426 CCCGTTAGTGCACACATACTGCGCCGGGCTGATCGGCTT GCCGTGCATCGAAATGCGTCCACCGGTGACTGAGGTGTG  
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FW: 2717342 GGACCCACCACTGACGGGATAGCGCGGCTGATCGGCTC GCCGCTGCTGCGAGTGTCCGACGCTGCGAGGTAGGGTC  
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FW: 2719769 CGGTACGGGTTGACGCTACTCCGGGTCGCGGAGCAGA CGCAAAAGCTCCCAAATCCGACCGGATTTGGAGCTTTTGC  
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FW: 2728686 GTCGCGCTGACCCGAACAGCGGTTGAGGTTGGGATGGTCGG CGCCGCGCATGTTGGCGGATGCTGCCGAGTACGGCCGATCG  
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FW: 3431149 GCTACGCCACCGGATCTCAGGAGGTTGGTATGCTGGG CGCGGAGGTCGCTGACGGCGCGGTTCAACAGTTGGAGTT  
FW: 3431519 GAGCGCGAGGAGCTGCGAGCTCACTGGTGGTGGTGGG TCGGCTACCGGGGTCGCGCGCGCGCGCGCGGCTGCG  
FW: 3431607 GCGGGACATCCCAACGTCGGCGCGCGCAATCAACGGCAG CCCCACGAATACGTCGCGGGTGGATCAAGCGCGGGCGA  
FW: 3437845 CAATGAACCCCTGGACCGATCATCGACTGACTGGCTT CGCGACTACTACTGACCCAGGAGGAGGATGACCTCCAGG  
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FW: 3440937 ACCCGGTAGCGCGCGGTCGACTCTACACCGCTCCCC GCGGATAACAGATTCGGGCTTCCGCGAGGCTCTGG  
FW: 3442341 CAGATCGCGCGGAGTTACCGCGGAGTTAGAGCGGCTGG TTGCGCTCGCGGTCGCGCTGGGATCTCGGTGCGCGACC  
FW: 3444572 CGCTAGCGGCTCCGCGGATCCACCGCGCGCAATCCGACC GCCTAGCGGCTTGAACCGGAAATGCGCGCACCACTCGGT  
FW: 3444838 GACGCCATCGACCCCTGACCGCGCGGTCACGGCAGCGG AC CGCTGTCGCGCATCCCGCAACCTGGTACCCACCTGC  
FW: 3446145 GATCACCTTCCGATCGCCATGACGGCGCGCGACTGGCAG GAAATACTACTGCTTTCGCGCGCGCAACCTGACCAAG  
FW: 3450416 CTTCCGCGCGCGGCTCCATCCCAACACGCGCGGTCGGCGG TGGCGGATGCGCGGAGCTGAGGCTGCTCTAGACG  
FW: 3454583 GGATACATCCGCTGGTTCAGCGGCTAGCTTACTGGCGGG ACCGCTATCCGAGGGGCTGGTCCCACCTGAGGGCGG  
FW: 3455187 TATGTACAGCGGTCGCGGACCGAATCAATGTTGGTGGC CGCGCGAGTGGGATGCGCTGGCGCGGAGTTAGACTCCG  
FW: 3456811 GGTGAGGACTCCGCGGTCGACTGCTGTTGCGAAACGGCGAG TGCCAGCAACACGCTGCGGACTCCACTTGAACCTTCACT  
FW: 3457763 TTTCCGCGACAGTCCCGCGGTGGGTGCTGCGTGGG TGGCGCGGTGCGCGGAGGCTGGCAACAGGTCGCGGA  
FW: 3458871 TCGGTCGGTGGTGGTGGTGGCGCGCGCTGCAACGGCGG TGGTGGCGGCGCGCGCGCGCGCGGCTTGGATCCGTCGA  
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FW: 3459833 TACATGTCCTGAGCCCGCGGAAATTTACCGCGGTCG TCGACCGCGCAACGTCGACTAAAGGCAATCACCGAAGAC  
FW: 3463114 GTTGGGCTGCTGCTGCTCGAGCTCAAAAGCTCGGGCA GCGACGCTCAAAGCCCCGAAATTTCAAGTAAATCGGGGCT  
FW: 3463920 CTGCGGAGGAGCGGCTGTTGGTCTGCGGCTTACTGGCGG CAGAAATCCACCGTGAAGGTAACCGCTTCTGCTCAACA  
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FW: 3466825 AAGCAGTGAAGCTACATACCCATCTGTTACTGGCGG CCGTGGCGCGGCTTCCGCGGTTGCTGCTGGTGGTGGTGG  
FW: 3467910 AGCTGCTTCCCTGCGGAGCGAGCCCGCGGCTACGGCGG CTACTTCAAGATATGCTGCGGCGGCTGGCGGAGGCACTG  
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FW: 4021860 TCGCGCCCTTACGCAAGCTGGATGGTCTCACCGTGG TACGACTAGCGCCGAATCGCGGCTCTTGGTGAACATTGG  
FW: 4022467 GGGTAATCGAGTCTGAGGTTGGCCGCTGGCGGCTGGG CTACCGGTGTCGGCGCCACCAACGTTCCAGTGGGAC  
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FW: 183209 GCGTTCGACGCTGAGCAGGGCGCGCGCGCGCGCGGAG ACAGCTGAAGGTGACCGCGCGGGCGGAGCGCCCGCGCG  
FW: 184564 CGGCTGACCTATCCCGCTGTCGGTGGCCGACGTGGATG TGCCGCTGACGACTCGCGCTGGACTGGCTGGCGGGCGG  
FW: 186142 TACGTGCCGAGGCGCTTCCCGCAATGGCAGTGGCAGG TCGCGCCACCACTCGCGCTGACTTCCCGGACCAAGCAG  
FW: 194251 GCGCGCGGCTGCGCAGGGCTGACTTATCGCGAGGCGG TCGACGTGACGGGCTGGTGGCGGTACAACCTCAAGTGG  
FW: 196826 GCGCTGTCGAGCGTGGCGCATCGTGGCGCGCGCGG TGTTGGCTGCTGCGCGGATGCTGCGTGGGGGCTGGGT  
FW: 197856 GTCGTGATCGCGCGCGCGCGCACCTGGCCATGTTGGCG TGACGGGCCCAACCGCCGCGCAAGGTGGGGGGCCGCT  
FW: 202203 AGCGCGGGTGGGTTGGGCGTTTGGCCCTTCCGGCGCTG TCGCGCTCAGGATCAGCGCGGATGGACAGATGAACGCC  
FW: 202904 CCCACTCCGCTGGCGCGTGGCGTGTGACACTGCTCCA AGTCTTGGCGGGCGCTGTGCACGCAATACATGGCCGAC  
FW: 202971 AATACATGGCCGACATGGCGCGCACGTGATCAAGTGA AGCGCGGGGAGGGCGACGATACCGCGGCTGGCCCGCTG  
FW: 203302 CGGCAAGGGGTTGATGTGGTGTGCGAGCGTTCGCGCG ATGATCTGATCAGCGCGGAGCCAGGGCGCGCGGCTGGC  
FW: 203463 CCAGCGCGCGCGCGCTCACCTGGACGCTCGCTGTTGCA TACCGGCTCGGTTTATGGGCTACTTATGACAGGTTACT  
FW: 205568 CGCGCGCTGCTGGCGCTGACGCGCGCGCTAGCTGTGAA GAACTCAATAGGTTGATGATGTTTATCCGAAACGGATTT  
FW: 207768 TCAAACTCGGTTGCGATGAACCATGCATACAACTATTGA ATCTTCAACAATAGCGCGAGCGCGCTAGCGCGCGCATC  
FW: 208836 GCGCGCCCGCGGCTGCGCATCCATGAAAAGGCGAGCCG CGCAAGGCTGCTCGGTTGCGCGCGCGCGCGCGCAAGCGCC  
FW: 211746 CGCGAGCGGGCATGCGGGCTAGCGCGCTGATGGCGG TCTTGACGAGGTGATAGACTGGCCGACATGGCGGCTGT  
FW: 212613 ACCCGCGCGGAGCGCGCGCGCTGAGGATCTCGGCCA CGCCCGAGCGCTGCCCGCACAGCTGGCCGGCTGAAAC  
FW: 214934 TTGAGTATTGAGCACTGAGTAATAGGATTGGCGG TCGCGCTGGCGATGGCCAGCTGGAAACCCAGCTGCTGGAC  
FW: 215345 TTGCGCGCCAGCTGAGCGCGCATCGCGGATGGCGCGG CCAGTTGCTCGCGGACTGGTGGTAAAGGTGGGGGTTGGG  
FW: 219410 GTGGCGCTGGCGCGCTGCCAGGATGAGGATGTTGGCT TGCTGATCACCATTGCTGACGCGCGCTGCCCGCCAGCGCG  
FW: 219572 CAGCGTCCGCTGCGACTGATGGTGTGCTGCGCGGAGC TCGGGTACCGGAAAAATCGGTTTCCACATGCGCGCGCG  
FW: 219744 TTGCGCTGATCTGATCTGCGGCTGCTGCTGATGGCG TGTCGCGCAGCTGCGCGGATGCCAGGCTGAGCAGATGA  
FW: 220870 ACCTTCTCAATGTTACCTCCGCGCTACGGCGACTGG CCGGCTGCTCAACCGCGAGCGCTCAAGCGCTTCCAGCGG  
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FW: 221620 TGGATGCTACAGGAGAGACCGGAGCGAACTGGCG TGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATG  
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FW: 236794 CGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG TTTCCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
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FW: 242210 GGCTTGTCTTTCACCGCGAGTGGATGCCCGAGCTGGCG TGTCGGTGGGAATGGTGGTTTTCTGCTGATGCTCATCTGGT  
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FW: 244881 CGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG TCG  
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FW: 257234 CTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG TGGCGCACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
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FW: 265602 GCGGAACTGATCAGCGCGCGCGCGCGCGCGCGCGCGG GCCTGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
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FW: 311369 CATGAGCCAGGAAGCGGATTCCTATTCGAGCGGCTTG TCCTGGCTTGGCTGGAGCCGCGCCGCTGATCAGCAACGC  
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FW: 375664 CGGACCGCGCGGCTCATGGTGGTGCAGATCGCGCGGGG CACACGAAAGTGGCGGCTATCTGCTGGCGCGGATGGTGT  
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FW: 400796 GCGCGCTGATACCACTCAGCACTCAACCTGGACGAATAC AACCTATTGACAGTTCACAGCTACATGGTGGCGCGCGCGCG  
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FW: 403133 CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGCTC GCG  
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FW: 411461 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG TGAGCGGACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
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FW: 416925 CGTGGCTTCAACAGCTGCGCTCCGAGCGGATGGCGCGG TTGGGCTGTGCTAGCGCGGAGTGGCGCGCGCGCGCGCGCGCG  
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FW: 417558 GGAAGTGGTGGCGCGCGCGCGCGCGCGCGCGGATTCGCGG ATGCGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
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FW: 418224 TCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG CTGGCG  
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FW: 420911 CTGGACAGGCGCGCGCGGAAATGCGCGGATCGCGCGG CGCGCTTCTGATGGGCGCGCGCGCGCGCGCGCGCGCGCGCG  
FW: 422383 GCGCGCATCCGCGCGCGCGCGCGCGCGCGGTCGCGG TCGAGCAGATGGTGGCTGGCGCGCGCGCGCGCGCGCGCGCGCG  
FW: 422569 GCGTGGCGCAATCGCGCGCGCGCGCGCGCGGATGGCAGGG CCATGAGCGCGGCTGGATGCTGCTGGCGCGCGCGCGCGCGCGCG  
FW: 423208 TGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGTCGCGG CCG  
FW: 424135 TCAATGTCAAGCGCGCGCGCGCGCGCGGCTGGCGGCT CCG  
FW: 428527 ATGCTTGAAGGCGCGCGCGCGCGCGCGCGCGG TGACGTCAGCAGCAATCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
FW: 430130 GGAGCGCGCGGTTTTTCAAGCTGCATGCTCATGGACGG TAGCCGTAATGGCGCGCGCGCGCGCGCGCGCGCGCGCG



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FW: 588294 CACGAGATCTCGAGGGGGGACGCGGATTTGCTGGCGG TCGAGCGCCGAGGCTGTCGGCGGCTGGTCCACCAGG  
FW: 592645 GCGTGGCGTACCCTCAAGACCGCTTGGACAGCGCGCGG CGCTCTGATGGCGGGTGGGCTCTTGGCCGACAGGGTCA  
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FW: 601621 GACACCTGCGCGTGTTCGGCCCTGACGGTGTGGCGG TCATGGGATGGCCCTTGTGGCTGTGGTGTGGTTCGAG  
FW: 605169 GCGGCTCGCAGCTGGTGCCTTTCGCGAGCGCTGGCGG TGCAGTGGGCGCGGACCCGAACCAGCCAGCGGCTGG  
FW: 607193 GCGCCGGTGTCTGCGCCGCGCAGACCTGCGCGCCGCGG CCGGACGGCTCGGGGGCCACGGGCGGTGGCGCCCTT  
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FW: 1152101 CATCATGTTGAGTGGGTTGGTGGTGGTGGTGGTGGGG TCGTGGCGAAGTGGCGGTTGATTTCAAGCAGCGCGTGG  
FW: 1153244 GTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGGG TCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG  
FW: 1154146 GTAGCAGAACTGCGCGCGCGCGCGCGCGCGCGCGGG GAGGAGTCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG  
FW: 1157039 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGGG TTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG  
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FW: 1390637 CGCCGACGCTCTCGCCGCTTGTGGTCTGGCTGGCGG TGCCGACAGAGGCTTGGGATGGCGCGCGCGCGCGCGCGG  
FW: 1392013 GCGCGCAGCGCGCGCGGGCGAGCGGCGCGCGCGCGCGC AGCCCGCCAGTTGGGGTTGACTGGGCTGGTGCATCAC  
FW: 1392229 GACGGTGGCGGATATGGCCGTCCTGGTGGCGGCGGCA TCGCCCGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGC  
FW: 1392437 CCACATGGGAGCAGCGGCGCGCGAGGCGGCTGGCGGCG GCGCGCGTGAAGCGCGCGCGCGCGCGCGCGCGCGCGCGC  
FW: 1392997 GCGTAGGCTTGTGGGAGCGGTGGCGGGGAGCAGCGGCGG TCAGCGCGCATCTGCGCGCGGGGTGGCGAGTGGCGG  
FW: 1393418 CAGCATGCGGGGAGCGCGGCGCGCGCGCGCGCGCGGGT TCGCGGCTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGC  
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FW: 1393919 GCGTTCGGCGCGCGCGCGCGCGCGCGCGCGCGCGG TAAGTTCGGGATGTTGGATCGGGCGGGGATCGCAATC  
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FW: 1396132 GATGCTGCTCAGGGCGCGCGGTTGGCGGTTGGTGAACAG TCGGCGGAGCGGTCAGCGCGCTGCCAGCGCGCGCGCAT  
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FW: 1620894 GAAGAGGCGGATCGCGCGCTGCTGGACCGCCGACGAGCCG CGCGGCTGGCGTGGACCGGACCTGCTGGTGGCAGTGG  
FW: 1621172 GCGCGGCTTCGCGCGCTGCTGGCGCGCTGGCCGATGGC GCGCGGACGTGGTGGCGTGGCGGAGCAGCCGTGGCGAGCC  
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FW: 1782969 GTCCGGCGGGGGGCTGCTGCTGAAACCTCATCCAGG TCCGCGCGGGGCGCGGGGAGGCTGATGCCGGCAGCAG  
FW: 1783110 ACGTGGCGCGCGCGCTGATGCTGCTGAACGGACACG CCGATGCGCGAGCGGGCGCTGAGTGGCGGGCGCGCTG  
FW: 1783747 GGGCGCAATACCGCAACAGCGTTCGAGTCAACCGCA AGTGGCCGAAGACCGCTGCGCTGCCATTGACACAGATG  
FW: 1784689 CAGGCCAGCGGGATTACTGGTATCGCCGCTGTCGGCG TGCGGATGCGGGCGAGTGAAGTGGCTGCGCAGCGGCTG  
FW: 1785997 GAAGCGCGCTGTCGCGAGGCGCAGCGCAATGTCAGGCG CGGGCGAGCCCATGCCCGCCCATGACAGGGCATGGAT  
FW: 1787836 CGGATGGCTGCGAGGCGCATCAGCGTGACACCGCGCGC ACGATGCCGGTGGCGGTGGGAAGATGGCGCAGTGTATG  
FW: 1788966 GGGCCCGTTTATGGGATGGGAGGATTAACGCGCTGCGCG GGGCGCTGCGGACCGCGCGCGCTGGCGGGCGCTGCGCG  
FW: 1790110 CCCTGGCGCGCGTGAAGCGGGAAATCCAGCACGGCGG TCCCGCGAGCGCTCCGGCAGCGGAATGAATTCGACCG  
FW: 1792169 TCGGCTCGCGGGCATGAGCGTAAGCGGGCGCGCGCG GCGCGCTGGCGCGCGCGCGCGCTGATATAACGAC  
FW: 1793637 GGGCTGGTCTGCAAGGAGGCAAGTGGCGCGCACGAC GTCATGTATCGGGGGGAGCGCCCGCTGCGGGTGGCG  
FW: 1794252 GGGTGGTGGCTGCTATTCATCTGGCGCTGTCGCGAGG CGGCGCTGGTCTGCTGCTGATTCGATGCGCGGGCTG  
FW: 1794696 ACGCGCTGGGGTGTCAAGCGCTTACTGCGCGCGG TCGTCCGAGCTGATCACCGCGCGCACTGGCTGCGCTGCG  
FW: 1795212 CGTACCGCCGAAGCGCTGACGGCGTGGCGCGCAACCGG TGCCCGGCACTGGGCTGCGCTGCAATGGCGCGCGG  
FW: 1795359 GATGGCGCGCGCTGGCGCGCAGGCGCGCGCATGGCGG TGTGGGAATCGATATGCGACCGCGCCAAAGCGGTCATC  
FW: 1795680 TTGGCGCGGAGGGGCGCGCGCGAACTGGTATGGTGGT GCGCGCGCGGCGCGCGCGCTGGCGCGCGAGATGCA  
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FW: 1797175 CTGCGGCGCATAGCGGGAGGGGCTGGACCGTGGCGG TGTGGTGGTGGCTGTTGCGCGCATCAAGTGGCGCG  
FW: 1797243 CAAGTGGCGCGGGCGGCTGGTGGCGCTTATGGCGG TGGCGCGCAACTGCTGCGCGCGCGCGAGCGCTTCCGGT  
FW: 1798308 GCGCTGCTTTCACCGCGCGCTGACGCGCAGCGGG TTGCGCGGATCAGCGACAGGAATTCAGTGTGGTGGT  
FW: 1799558 GCGCGTGGCTGAGCGGGCACGAGCGCGCGCGCGG GATGAACAGCGCGCGCGAGCAACAGCGCGCGCACGACGCG  
FW: 1799656 CCGCGCGCTGACCGCGCGGCGCTTCCACATAGCGGG TGGTGTGCTGGTGGCGCAGCATGAGCGCGCGCAGATGGCG  
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FW: 1954671 TACTTCTGAGCGCGCGCGCGCGCGG TTTCTGAGTCTTTCAGATCGCGCGCGCGCGCGCGG  
FW: 1957665 TGAACCATGATCAAACTATTGAATCTTCAAACTAGG CCGCGCGCGCGCGCGCGCGCGCGCGCGCGG  
FW: 1959966 CCGCGCTGTTGCGGTAATGCTAGGGACAGCGCGCGG ATGGCGCGCGCGCGCGCGCGCGCGCGCGG  
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FW: 1979190 CGCGCGCGCGCGCGCGCGCGG TGCACCAGCGCGCGCGCGCGG  
FW: 1981393 GCGCAGCGTTCGCGCGCGCGG TGGCGCGCGCGCGCGCGCGG  
FW: 1984152 CCGAGGACCGCGCGCATCGCATATATCGATTTCCGCGG TTTCCCGGATGCGAGAGGTCGCGCGCGCGG  
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FW: 1986147 CGCGCGCGCGCGCGCGCGG TGGCTGGAGCGCGCGCGCGG  
FW: 1988255 CATGCTTGAAGTTCGCGCGCGCGG TGGCGCGCGCGCGCGCGG  
FW: 1989304 GTACAGTCTGCGATGCGAGTGTGCTGGCGGATAGCGG TCGCGCGCGCGCGCGCGG  
FW: 1990601 TTAGCTTCCGCGCGAGATGCGCGCGG TGGCGCGCGCGCGCGCGG  
FW: 1995309 GTGGTCAAGCGCGCGCGCGG TGGCGCGCGCGCGCGCGG  
FW: 1996074 TTTGCGCGCGCGCGCGCGG TGGCGCGCGCGCGCGCGG  
FW: 1998797 TGGTCCATCAGGTTCTGATGTTGGCGTGGCGCGCGG ACGAATCGGTACGATCTGGCGCGCGCGG

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FW: 2001673 TCGCCGCTGGCTGGCCGGCATGCGGTGATGATGGCG TGACGCTGACGGCCAGCACGGCGGCCCTGCGCGTGCAGC  
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FW: 2003743 GAAAGGGGTTATTCGGCGGTTTCGGGGGATCATGGCG TGACACGCCGCGCAGCATGTCCACTTCTGCGCGGTGAGC  
FW: 2004941 ATCGCTTGTGATCGCCGCGAGTGACGAGCGGTGG TCTAGATCCGTGCGCAGCAGGCTTTACGCGCCAGCGC  
FW: 2006261 GACCGCGCGCTCGATGCGCGAGCGACCCGCCGGCGG TGCTGCGATGCTGGCAAGCGCCCGCCGCGCAGCGACGA  
FW: 2007328 TCTGGCCGATGTGGATATTTCGGGCCCGCTGTGGGAGC TTGATCCGGGCACTTGAACGGGGTGCAGGAGGTCAA  
FW: 2007785 TGGCCGATGCGCAGTGTGGCGCGCGGTCTACGACG TGTACCCAAATATCGCGCTGCTCAGCCAGCAGCATGTGCG  
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FW: 2013909 CAAATGGCTGGCGCGCTTCTGCTCACGGCCAGCGGGC TTGGCCGATGCGCTCGCGCCGACGGTCTCGCCCGCAGC  
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FW: 2015915 CAGAGTACAGATGCTCCTGATGTTCAAAGTATGGCG TACTTGCATGGCTGCTGAGCGCATTAAGAAGCTGGCG  
FW: 2016353 GGCACATCACACGTTGGCGCGCGCGGTTCCGATACCTC GCGCGTGGCGTGGCGCGCCATCAAGGCCAGCAGTGGC  
FW: 2021826 TCACCAATTCATCATGTGCGCGCTGGCGATTACGGCGG TTGCGAGCGCTGAGCGTGGCGAATGGCGCTCAACGCTCT  
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FW: 2038629 GGTATGACGCGCGGATCGCGCGCGCGCGTGGTGGCGG ATCAGCCAGATGAGCGCGCGCGGATCTGATCAGCGCG  
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FW: 2921621 GGGCCAGATCTTGTGAGCGGTTTATCAGCTTGGCGG TCAGCGCAGCGTGGCGCGAGGCTGGTGGCGATCTGGTGC  
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BW: 4015908 TCACCACTAGGGCGCGGAGCGCTGCGCGCGCGCGCG CCGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
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BW: 4016360 CCGCGCGCGCTCAGCACTCGCGGAACTGGCGCTGCGAAAA CCGCGCTGGCGGACAAAGGTCAGGTCGGGAAACGAGCGG  
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BW: 4020508 TCATGGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCG CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
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BW: 4023106 CAGGTCGCGCACTCGCGCGCGCGCGCGCGCGCGCG CCGCGAGGTCAGCAGCGCGCGCGCGCGCGCGCGCGCG  
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BW: 4040482 CATGTCACCGCGCGCGCGCGCGCGCGCGCG CCGCCAACTGACCATGACAAACCGCGCGCGCGCGCG  
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