



```

                                     Aat2                                     Eci1
                                     |                                     |
401 TAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCATTGACGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTA
   |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 500
   ATCGCCAAACTGAGTGCCCTAAAGGTTTCAGAGGTGGGGTAACTGCAGTTACCCTCAAACAAAACCGTGGTTTTAGTTGCCCTGAAAGGTTTTACAGCAT

                                                                                               Nhe1 Afe1
                                                                                               |   |
501 ACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTTAGTGAACCGTCAGATCCGCTAGCGCTA
   |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 600
   TGTTGAGGCGGGTAACTGCGTTTACCCGCCATCCGCACATGCCACCCTCCAGATATATTCGTCTCGACCAAATCACTTGGCAGTCTAGGCGATCGCGAT

Agel      Nco1                                     BsrG1                                     ApaL1
|         |                                     |                                     |
601 CCGGTCGCCACCATGGGAGAGGATAGCGAGCTGATCTCCGAGAACATGCACATGAAACTGTACATGGAGGGCACCCTGAACGGCCACCACTTCAAGTGCA
   |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 700
   GGCCAGCGGTGGTACCCTCTCCTATCGCTCGACTAGAGGCTCTTGTACGTGTACTTTGACATGTACCTCCCGTGGCACTTGCCGGTGGTGAAGTTTACGTT
TurboFP650 > M G E D S E L I S E N M H M K L Y M E G T V N G H H F K C T

                                     SpAcc
                                     |
701 CATCCGAGGGCGAAGGCAAGCCCTACGAGGGCACCCAGACCGCTAAGATCAAGGTGGTTCGAGGGCGGCCCTCTCCCCTTCGCCTTCGACATCCTGGCTAC
   |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 800
   GTAGGCTCCCGCTTCCGTTCGGGATGCTCCCGTGGGTCTGGCGATTCTAGTTCCACCAGCTCCCGCCGGGAGAGGGGAAGCGGAAGCTGTAGGACCGATG
TurboFP650 > S E G E G K P Y E G T Q T A K I K V V E G G P L P F A F D I L A T

                                                                                               Bsu36       SpDon
                                                                                               |           |
801 CAGCTTCATGTACGGCAGCAAAACCTTTATCAACCACACCCAGGGCATCCCCGACTTCTTTAAGCAGTCTTCCCTGAGGGCTTCACATGGGAGAGGATC
   |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 900
   GTCGAAGTACATGCCGTGTTTTGGAAATAGTTGGTGTGGGTCCCGTAGGGGCTGAAGAAATTCGTGAGGAAGGGACTCCCGAAGTGTACCCTCTCCTAG
TurboFP650 > S F M Y G S K T F I N H T Q G I P D F F K Q S F P E G F T W E R I

Bbs1      Bpm1
|         |
901 ACCACATACGAAGACGGGGCGTGCTGACCGCTACCCAGGACACCAGCCTCCAGAACGGCTGCCTCATCTACAACGTCAAGATCAACGGGGTGAACCTCC
   |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1000
   TGGTGTATGCTTCTGCCCCGCACGACTGGCGATGGGTCTGTGGTTCGGAGGTCTTGGCCGACGGAGTAGATGTTGCAGTTCTAGTTGCCCCACTTGAAGG
TurboFP650 > T T Y E D G G V L T A T Q D T S L Q N G C L I Y N V K I N G V N F P
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                                     AlwN1                               BpuE1
                                     |                               |
4201 TCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGAT
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4300
    AGACATCGTGGCGGATGTATGGAGCGAGACGATTAGGACAATGGTCACCGACGACGGTCACCGCTATTCAGCACAGAATGGCCCAACCTGAGTTCTGCTA

                                     ApaL1       BseY1
                                     |           |
4301 AGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCG
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4400
    TCAATGGCCTATTCGCGTCGCCAGCCCAGCTTGCCCCCAAGCACGTGTGTGCGGGTCGAACCTCGCTTGCTGGATGTGGCTTGACTCTATGGATGTTCGC

                                     BciV1
                                     |   |
SpAcc                               Eci1   |   BssS1
|                                     |   |   |
4401 TGAGCTATGAGAAAAGCGCCACGCTTCCCGAAGGGAGAAAGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCA
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4500
    ACTCGATACTCTTTCGCGGTGCGAAGGGCTTCCCTCTTTCCGCTGTCCATAGGCCATTTCGCCGTCCCAGCCTTGTCCTCTCGCGTGCTCCCTCGAAGGT

                                     SpAcc       Drd1       BpuE1       SpAcc
                                     |           |           |           |
4501 GGGGAAACGCCTGGTATCTTTATAGTCCTGTGCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGA
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4600
    CCCCCTTTCGCGACCATAGAAATATCAGGACAGCCCAAAGCGGTGGAGACTGAACTCGCAGCTAAAAACACTACGAGCAGTCCCCCGCCTCGGATACCT

                                     SpDon
                                     |
Eci1                               BspLU|
|                                   ||
4601 AAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTCTGCGTTATCCCCTGATTCTGTGGATAACCG
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4700
    TTTTGGCGTTCGCGCCGAAAAATGCCAAGGACCGGAAAAACGACCGGAAAAACGAGTGTACAAGAAAGGACGCAATAGGGGACTAAGACACCTATTGGC

                                     NsiI
                                     |
BfrB1 |
|
4701 TATTACCGCCATGCAT
    |||||*||||| 4716
    ATAATGGCGGTACGTA
```

