Results of JDP Plasmid Sequencing

July 31, 2018

1. TA1, DnaJA1 T7 Forward: good read quality, aligned with CDS folder file and protein sequence aligned with uniprot; assembled a plasmid map
2. TA2, DnaJA1 T7 Reverse: good read quality, aligned with CDS folder file and protein sequence aligned with uniprot; assembled a plasmid map
3. TA3, DnaJA2 T7 Forward: poor read quality throughout
4. TA4, DnaJA2 T7 Reverse: poor read quality throughout
5. TA5, DnaJB1 T7 Forward: good read quality, forward and reverse reads aligned and translated protein sequence aligned with uniprot; assembled a plasmid map
6. TA6, DnaJB1 T7 Reverse: good read quality, forward and reverse reads aligned and translated protein sequence aligned with uniprot; assembled a plasmid map
7. TA7, DJB4 T7 Forward: good read quality, aligned with CDS folder file and protein sequence aligned with uniprot; assembled a plasmid map
8. TA8, DJB4 T7 Reverse: good read quality, aligned with CDS folder file and protein sequence aligned with uniprot; assembled a plasmid map
9. TA9, DJB6b T7 Forward: good read quality, forward and reverse reads aligned and translated protein sequence aligned with uniprot; assembled a plasmid map
10. TA10, DJB6b T7 Reverse: good read quality, forward and reverse reads aligned and translated protein sequence aligned with uniprot; assembled a plasmid map
11. TA11, DJB8 T7 Forward: good read quality, aligned with CDS from Sue Ann’s pMCSG7 DJB8 file except for a single point mutation (T5382->C5382), however protein sequence aligned with uniprot; assembled a plasmid map
12. TA12, DJB8 T7 Reverse: good read quality, aligned with CDS from Sue Ann’s pMCSG7 DJB8 file except for a single point mutation (T5382->C5382), however protein sequence aligned with uniprot; assembled a plasmid map
13. TA13, DJC7 T7 Forward: good read quality, however after ~750 nucleotides, there is still no overlap with the other read; another primer has been ordered
14. TA14, DJC7 T7 Reverse: good read quality, however after ~750 nucleotides, there is still no overlap with the other read; another primer has been ordered
15. TA15, DnaJ T7 Forward: good read quality, aligned with CDS folder file and protein sequence aligned with uniprot; assembled a plasmid map; had one N, but nucleotide was determined with a somewhat certain score (~30-40) from the reverse read, which aligned with the CDS
16. TA16, DnaJ T7 Reverse: good read quality, aligned with CDS folder file and protein sequence aligned with uniprot; assembled a plasmid map
17. TA17, J domain T7 Forward: good read quality, protein sequence aligned with DnaJ sequence (aa1-108); assembled a plasmid map

DNAJA1

NNNNNNNNNNNNCCTCTAGAATAATTTTGTTTAACTTTAAGAAGGAGATATACCATGGGCAGCAGCCATCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATGGCTAGCATGGTGAAAGAAACAACTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAAAAAGGCTTATAGGAAACTGGCTTTGAAGTACCATCCTGATAAGAACCCAAATGAAGGAGAGAAGTTTAAACAGATTTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAAAGAGGGTGGAGCAGGTGGCGGTTTTGGCTCCCCCATGGACATCTTTGATATGTTTTTTGGAGGAGGAGGAAGGATGCAGAGAGAAAGGAGAGGTAAAAATGTTGTACATCAGCTCTCAGTAACCCTAGAAGACTTATATAATGGTGCAACAAGAAAACTGGCTCTGCAAAAGAATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAGAGTGCTGTCCCAATTGCCGAGGTACTGGAATGCAAATAAGAATTCATCAGATAGGACCTGGAATGGTTCAGCAAATTCAGTCTGTGTGCATGGAGTGCCAGGGCCATGGGGAGCGGATCAGTCCTAAAGATAGATGTAAAAGCTGCAACGGAAGGAAGATAGTTCGAGAGAAGAAAATTTTAGAAGTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAACATTCCATGGTGAAGGAGACCAAGAACCAGGACTGGAGCCAGGCGATATTATCATTGTGTTAGATCAGAAGGACCATGCTGTTTTTACTCGACGAGGAGAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCTTCCAGAAGCCAATATCTACTCTTGACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGGAGATATCAAGTGTGTACTAAATGAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTCGCCTAATCATCGAATTTAAGGTAAACTTTCCTGAGAATGGCTTTCTCTCTCCTGATAAACTGTCTTTGCTGGAAAAACTCCTACCCGAGAGGAAGGAAGTGGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACGGCGCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCCAGAGGTGGTGTTCAGTGTTAGACCTCTTAATGACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCCGAANGNANNNNNNNN

DnaJB4

NNNNNNNNNNNNNNNNNNNNNCTNGAATAATTTTGTTTAACTTTAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCAATGCAATGGGGAAAGACTATTATTGCATTTTGGGAATTGAGAAAGGAGCTTCAGATGAAGATATTAAAAAGGCTTACCGAAAACAAGCCCTCAAATTTCATCCGGACAAGAACAAATCTCCTCAGGCAGAGGAAAAATTTAAAGAGGTCGCAGAAGCTTATGAAGTATTGAGTGATCCTAAAAAGAGAGAAATATATGATCAGTTTGGGGAGGAAGGGTTGAAAGGAGGAGCAGGAGGTACTGATGGACAAGGAGGTACCTTCCGGTACACCTTTCATGGCGATCCTCATGCTACATTTGCTGCATTTTTCGGAGGGTCCAACCCCTTTGAAATTTTCTTTGGAAGACGAATGGGTGGTGGTAGAGATTCTGAAGAAATGGAAATAGATGGTGATCCTTTTAGTGCCTTTGGTTTCAGCATGAATGGATATCCAAGAGACAGGAATTCTGTGGGGCCATCCCGCCTCAAACAAGATCCTCCAGTTATTCATGAACTTAGAGTATCACTTGAAGAGATATATAGTGGTTGTACCAAACGGATGAAGATTTCTCGAAAAAGGCTAAACGCTGATGGAAGGAGTTACAGATCTGAGGACAAAATTCTTACCATTGAGATTAAAAAAGGGTGGAAAGAAGGCACCAAAATTACTTTTCCAAGAGAAGGAGATGAAACACCAAATAGTATTCCAGCAGACATTGTTTTTATCATTAAAGACAAAGATCATCCAAAATTTAAAAGGGATGGATCAAATATAATTTATACTGCTAAAATTAGTTTACGAGAGGCATTGTGTGGCTGCTCAATTAATGTACCAACACTGGATGGAAGAAACATACCTATGTCAGTAAATGATATTGTGAAACCCGGAATGAGGAGAAGAATTATTGGATATGGGCTGCCATTTCCAAAAAATCCTGACCAACGTGGTGACCTTCTAATAGAATTTGAGGTGTCCTTCCCAGATACTATATCTTCTTCATCCAAAGAAGTACTTAGGAAACATCTTCCTGCCTCATAACATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCNCGAANGNAGNNNNNNNN

DNAJB8

NNNNNNNNNNNNNNNTNNTTTTNNTTAACTTTAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCAATGCTATGGCTAACTACTACGAAGTGCTGGGCGTGCAGGCCAGCGCTTCCCCGGAGGACATCAAGAAAGCCTACCGCAAGCTGGCCCTTCGTTGGCACCCCGACAAGAACCCTGACAATAAGGAGGAGGCGGAGAAGAAGTTCAAGCTGGTGTCTGAGGCCTATGAGGTTCTGTCTGACTCCAAGAAACGCTCCCTGTATGACCGTGCTGGCTGTGACAGCTGGCGGGCTGGTGGCGGGGCCAGCACGCCCTACCACAGCCCCTTCGACACCGGCTACACCTTCCGTAACCCTGAGGACATCTTCCGGGAGTTTTTCGGTGGCCTGGACCCTTTCTCCTTTGAGTTCTGGGACAGCCCATTCAATAGTGACCGTGGTGGCCGGGGCCATGGCCTGAGGGGGGCCTTCTCGGCAGGCTTTGGAGAATTTCCGGCCTTCATGGAGGCCTTCTCATCCTTCAACATGCTGGGCTGCAGCGGGGGCAGCCACACCACCTTCTCATCCACCTCCTTCGGGGGCTCCAGTTCTGGCAGCTCGGGGTTCAAGTCGGTGATGTCGTCCACCGAGATGATCAATGGCCACAAGGTCACCACCAAGCGCATCGTGGAGAACGGGCAGGAGCGCGTGGAGGTGGAGGAAGACGGGCAGCTCAAGTCGGTGACTGTGAACGGCAAGGAGCAGCTCAAATGGATGGACAGCAAGTAACATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGNCNGNNNNNN

DnaJ

NNNNNNNNNNNNNNTTNNNTCTAGAAATAATTTTGTTTANCTTTAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCAATGCAATGGCTAAGCAAGATTATTACGAGATTTTAGGCGTTTCCAAAACAGCGGAAGAGCGTGAAATCAGAAAGGCCTACAAACGCCTGGCCATGAAATACCACCCGGACCGTAACCAGGGTGACAAAGAGGCCGAGGCGAAATTTAAAGAGATCAAGGAAGCTTATGAAGTTCTGACCGACTCGCAAAAACGTGCGGCATACGATCAGTATGGTCATGCTGCGTTTGAGCAAGGTGGCATGGGCGGCGGCGGTTTTGGCGGCGGCGCAGACTTCAGCGATATTTTTGGTGACGTTTTCGGCGATATTTTTGGCGGCGGACGTGGTCGTCAACGTGCGGCGCGCGGTGCTGATTTACGCTATAACATGGAGCTCACCCTCGAAGAAGCTGTACGTGGCGTGACCAAAGAGATCCGCATTCCGACTCTGGAAGAGTGTGACGTTTGCCACGGTAGCGGTGCAAAACCAGGTACACAGCCGCAGACTTGTCCGACCTGTCATGGTTCTGGTCAGGTGCAGATGCGCCAGGGATTCTTCGCTGTACAGCAGACCTGTCCACACTGTCAGGGCCGCGGTACGCTGATCAAAGATCCGTGCAACAAATGTCATGGTCATGGTCGTGTTGAGCGCAGCAAAACGCTGTCCGTTAAAATCCCGGCAGGGGTGGACACTGGAGACCGCATCCGTCTTGCGGGCGAAGGTGAAGCGGGCGAGCATGGCGCACCGGCAGGCGATCTGTACGTTCAGGTTCAGGTTAAACAGCACCCGATTTTCGAGCGTGAAGGCAACAACCTGTATTGCGAAGTCCCGATCAACTTCGCTATGGCGGCGCTGGGTGGCGAAATCGAAGTACCGACCCTTGATGGTCGCGTCAAACTGAAAGTGCCTGGCGAAACCCAGACCGGTAAGCTATTCCGTATGCGCGGTAAAGGCGTCAAGTCTGTCCGCGGTGGCGCACAGGGTGATTTGCTGTGCCGCGTTGTCGTCGAAACACCGGTAGGCCTGAACGAAAGGCAGAAACAGCTGCTGCAAGAGCTGCAAGAAAGCTTCGGTGGCCCAACCGGCGAGCACAACAGCCCGCGCTCAAAGAGCTTCTTTGATGGTGTGAAGAAGTTTTTTGACGACCTGACCCGCTAACATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCCGAANGNNGNNNNNNNNN

DnaJB6b

NNNNNNNNNNNTNNCCTCTAGAATAATTTTGTTTAACTTTAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCAATGCTATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTCACCCGAGGATATTAAAAAGGCATATCGGAAACTGGCACTGAAGTGGCATCCAGATAAAAATCCTGAGAATAAAGAAGAAGCAGAGAGAAAATTCAAGCAAGTAGCGGAGGCATATGAAGTGCTGTCGGATGCTAAGAAACGGGACATCTATGACAAATATGGCAAAGAAGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCCAGATGATGTCTTCAGGGAATTTTTTGGTGGAAGGGACCCATTTTCATTTGACTTCTTTGAAGACCCTTTTGAGGACTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTTCTCTGCGTTCAGTGGATTTCCGTCTTTTGGAAGTGGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCACTAGGTCACGGGGGCCTCACTTCATTCTCTTCCACGTCATTTGGTGGTAGTGGCATGGGCAACTTCAAATCGATATCAACTTCAACTAAAATGGTTAATGGCAGAAAAATCACTACAAAGAGAATTGTCGAGAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGATGGCCAGTTAAAGTCCTTAACAATAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAGTAACATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCCGAAANNNNNNNNNNNN

J domain

NNNNNNNNNNNNNCCCTCTANNNNNATTTTNTNTTAACTTTAAGAAGGAGATATACATATGGCTAAGCAAGATTATTACGAGATTTTAGGCGTTTCCAAAACAGCGGAAGAGCGTGAAATCAGAAAGGCCTACAAACGCCTGGCCATGAAATACCACCCGGACCGTAACCAGGGTGACAAAGAGGCCGAGGCGAAATTTAAAGAGATCAAGGAAGCTTATGAAGTTCTGACCGACTCGCAAAAACGTGCGGCATACGATCAGTATGGTCATGCTGCGTTTGAGCAAGGTGGCATGGGCGGCGGCGGTTTTGGCGGCGGCGCAGACTTCAGCGATATTTTTGGTGACGTTTTCGGCGATATTTTTGGCGGCGGACGTGGTCGTCTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCCGAAAGGAAGCTGAGTTGGCTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGCTGAAAGGAGGAACTATATCCGGATTGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTANGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGNAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATNAGGGATTTTGCCNANTTCGGCCTATTGGNTAAAAATGAGCTGATTTANAAAATTNANGCNANTTNANAANATTAACGCTTACATTNNNGNNCTTTTCGGGAATGGNGCNCGANCCTATTNNNNTTTNCNAANANNTTCAANANGNATCCGCTCANNNNNNATACCNTGANNNNCTCANNNNNNNNNNANANNNNNNNCANNTTNNNNNCNCCNTANNNNNNTNNNNATTTNCNNNGNTTNNNNNNANNNNNNNANTANNNNNNANNNNNGGNNNNANNNNNCTNNNNNGATNNNNNNGNNNNNNNNNNNNNTNN

DnaJB1

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