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6101 GCTCCACCAGGTCAACCACCAGCAGTTCCACCAGTCTTCAACCAGCCAAAGACTCCAAATGGAGCCAATGGAAATGGACCAACCTGCAACTGCAATGCTG

6201 ATAACAAGTGCCCAGCTGGACCATCCGGACCAAAGGGAGTTCCAGGAGTTCCAGGACTCGACGGAGTTCCAGGACTTGACGGTGTTCCAGGAGTTGGAGC

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7001 acatcagacagaatcacattttgatagcattcacttcactcagatgcaaacttttcagtgactataaaaagtcataaaataataacattaaaaaagcaaa

7101 taaattagcgagagaattttttgacaaaaagaaagaagagtgatagagaagaagggaatgcttgaaaggattttgcatttatcttaATCACCGTCTTCGA

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7601 CTCAACGAGCTTGGTAACTCCAAGGGAGAGCGCTTTTTCGACTCCGGCAGTCGAGACCAGCGTTTTTGTACGTCCGATGTGGATGAGCATTCTTCCTCCG

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8101 CACGAACGTCTTCTGGCTCGGCTGGGAACCACTTGCGGTTGTTAAGCTTGCACCAGGCAGCCCAAGAACGGCACACTGAGAGAAGCATCTTCCAGGTGTG

8201 CTCGGAGAAGGCTTGTCTGTCACGGAACATATCCATGAGGTTCTTGCGAACTTCATCACTTGTCGCGTCAACTGGAAGTGCTGGAAGATTTTGATGAACA

8301 GTGAGAAGATTTGACATattttcgaagttttttagatgcactagaacaaagcgtgttggcttcctctgagcccgctttccttatatacccgcattctgca

8401 gccttacagaatgttctagaaggtcctagatgcattcgtttgaaaatactcccggtgggtgcaaagagacgcagacggaaaatgtatctgggtctcttta

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8601 gttgaaaataaataccgaacaacatttgctctaattgtgaaattagaaatcttcaaactataatcatgtcactttaccactatttccgtccagctcaacg

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8901 TTTGCTATGTTTTCAATTAAAAAATATGTTATTCAACTGTTTCTATGAGGAAAATAAGGCTTTGCATGTAATTTTCTTATTCAGCATAATTTTTAATTAA

9001 TTTGAATTTTCTGTCCTAACGTTTATTTTGTTTTCTTGGTTATGACTGATCTGAAATTAATTTTTGAATTTTAAGGTAATATGTCAGGCGGTGCCGCAAG

9101 TTTGTACAAAAAAGCAGGCTCCATGAAAAAGCCTGAACTCACCGCGACGTCTGTCGAGAAGTTTCTGATCGAAAAGTTCGACAGCGTCTCCGACCTGATG

9201 CAGCTCTCGGAGGGCGAAGAATCTCGTGCTTTCAGCTTCGATGTAGGAGGGCGTGGATATGTCCTGCGGGTAAATAGCTGCGCCGATGGTTTCTACAAAG

9301 ATCGTTATGTTTATCGGCACTTTGCATCGGCCGCGCTCCCGATTCCGGAAGTGCTTGACATTGGGGAATTCAGCGAGAGCCTGACCTATTGCATCTCCCG

9401 CCGTGCACAGGGTGTCACGTTGCAAGACCTGCCTGAAACCGAACTGCCCGCTGTTCTGCAGCCGGTCGCGGAGGCCATGGATGCGATCGCTGCGGCCGAT

9501 CTTAGCCAGACGAGCGGGTTCGGCCCATTCGGACCGCAAGGAATCGGTCAATACACTACATGGCGTGATTTCATATGCGCGATTGCTGATCCCCATGTGT

9601 ATCACTGGCAAACTGTGATGGACGACACCGTCAGTGCGTCCGTCGCGCAGGCTCTCGATGAGCTGATGCTTTGGGCCGAGGACTGCCCCGAAGTCCGGCA

9701 CCTCGTGCACGCGGATTTCGGCTCCAACAATGTCCTGACGGACAATGGCCGCATAACAGCGGTCATTGACTGGAGCGAGGCGATGTTCGGGGATTCCCAA

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**Figure S1**. (A) Schematic of landing pad insertion vector pMS74 and (B) corresponding color-coded sequence