

Fig. S1

A

C. elegans optimized BirA

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1  ATGGAGCAGA AGCTCATCTC TGAGGAAGAC CTCGGAGGAG AGCAGAAACT CATCTCTGAA
61  GAGGACCTCA TGAAGGATAA TACTGTTCCA TTGAAGTTGA TTGCTTTGCT TGCAAATGGA
121 GAATTTTCAT CTGGAGAACA ACTTGGAGAG ACGTTGGGAA TGTCGCGTGC TGCAATTAAC
181 AAGCATATTC AAACA gtaag tttaaacagt tcggtactaa ctaaccatac atattttaaat
241 tttcag TTGA GAGACTGGGG AGTTGACGTT TTTACGGTTC CAGGAAAGGG ATATTCGCTT
301 CCAGAGCCAA TTCAGCTCTT GAATGCAAAG CAAATTTTGG GACAGCTTGA TGGTGGTAGT
361 GTTGCAGTAC TTCCGGTTAT AGATAGTACA AATCAGTACT TGCTTGATCG AATAGGAGAA
421 TTGAAATCAG GAGATGCTTG CATCGCTGAG TATCAGCAGG CTGGACGAGG ACGAAGAGGA
481 CGTAAGTGGT TCT gtaagtt taaacatata tataactaact aaccctgatt atttaaattt
541 tcag CGCCTT TCGGAGCCAA TCTCTATTG AGTATGTTCT GGCGTCTTGA ACAAGGTCCG
601 GCCGCTGCTA TCGGACTTTC ATTGGTTAT T GGAATTGTGA TGGCAGAAGT TCTCCGAAAA
661 CTTGGTGCAG ATAAGGTGAG AGTCAAGTGG CCTAACGATC TTTATCTTCA AGATAGAAAA
721 TTGGCCGGAA TATTG gtaag tttaaacata tatataactaa ctaaccctga ttattttaaat
781 tttcag GTTG AGCTTACTGG AAAGACGGGA GATGCTGCTC AAATTGTGAT TGGAGCTGGT
841 ATCAATATGG CAATGAGAAG AGTAGAAGAG TCTGTTGTTA ATCAAGGTTG GATCACACTT
901 CAAGAGGCAG GAATCAACCT TGATAGAAAT ACGTTGGCCG CCATGCTTAT CCGAGAATTG
961 CGAGCTGCAC TCGAACTCTT CGAACAAGAA GGTCTT gtaa gtttaaacat atatatacta
1021 actaaccctg attattttaa ttttcag GCC CTTACCTCA GTAGATGGGA GAACTTGAC
1081 AATTTTATCA ATCGACCAGT GAAGTTGATA ATTGGAGATA AGGAAATTTT TGGTATCAGT
1141 CGAGGAATTG ATAAGCAAGG AGCTCTTCTC CTTGAGCAAG ATGGAATCAT TAAACCATGG
1201 ATGGGTGGAG AGATTTCTTT GCGATCTGCT GAAAAGTAA

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Myc tag
 BirA (codon optimized, with introns)

B

