

SUPPLEMENTARY TEXT 1

Sequence of the 7.9kb random DNA (randDNA)

(Ligation site for the biotin labeled DNA fragment)-

GGTCCACATGGTCTGCGGGTTCAGGGTGCACATCTGCCGCCAGGTCCGCGATGCCTGCGGGTTCAGGGTGTACGTC
AGCCGTCACACTACTATGGGAGCCATTGGCTCGTAGATCGAGTCGATGTCACACGACTGCAAACCTGGGTAGCGACAT
GGTATCGCTGGCAGTGGAAGACGAGTCGGTGGTCCAGTCCAAGTCAAACCCTCGTAACGACCGATCTGAGTGGTC
CGTCGTAGATGCGGCATACTTCCGCGGACTAACCCTGAAGGTACCGTCGGGTCGAACAGGAGAACCTTCTCGCA
CTTTACCTTCTGCACCCCATCTACATGGTATTTCCGGGAGGGGAAAAGATGAGCAAACCACCATGCTTTTAACTTGG
TGTGACCTAAGGCGGGCGATCCGTTCTGCTGTCATTGCGTAGCGGCACAGGCAGGGCACTGTCCTGGGAGGTGTTG
ATGAATCGGAATCGTTCACCGGACATTTGGATCTGATGTTGTCCATTGTTTCGCCAGCGCGTATAGGCATATCTGT
TCGTTTGCCTCTTGCAGTCTGGGCCACAACGTCAGTATCTCTGCCATATCAATAGCAGCCTGGTTGAATTCGTACC
TTCAAAGTACGAGTACAGCGACCCGTCAGTGGTACTGTAGCCCTTACGACCCACCAGGCTGCTGTCCGGGTGCACT
CTCACCAGTCTGTGGTCAGCTCCACGTCATCATTGAGCAAACCTCACAGCCGTCCTCATGTCAATGGCTTCCTGGAT
TTTCTTCTCCCAACTTTTGTCTCTGCAGTAGATGGTCACGTCAGCGTCCGTTGGCGTCCATTGCTGTGAATAGATGGT
TGAGGGATTGCTGCAGCCTATCTCTTCCGCCGCTGAACACTCCTGTGGACAGCAGCGGGATGGCTACGCTGCTCAG,
.TGACAGTCTGTTACTTCCGCGGCCACTGCCCGGTAGACAGCGCCAATTCGCGGTCCCCCTCCGCTTACAGTCGTG
GCAGAGAAATTAGCGCTACAGCGTGGATGACGGGGTACGAGCCGCACATGACTGTTTTAATTGTGCCCACTGGT
GTTGCTGCTCCCTTAAAGGCTGACGGCCATTTCTTCCGCCACGGCCCTGCATACGCCATCCCCTACAGTTCCACGGGC
GTTAGCTGCGTTAAACCACAGCCGCTTCTGTGCACGTGGCTATGTCTGCTCTTAACTCTGTAGGATGGTGCACACC
CGGCCGTGTGCATGGCTTCTCCGGCATAACGGCACTCAGCTTGGTATTCATCTGGTGTAGCGTAGAGGGTCTCTTT
CCGTTGTCAAAGTTGGAGAACAGCAAGAACAACCTTCTGTATTGCTGGTGCACAATCCGGGGCGAACACTCTTGCAG
ACGAGAACTTTCTGCTTAAAGGAGGAAACAACGGCTTCCGCTGATTTTATCGGCGTATCCGTAAGCTCTCATCAAGAT
GCCGCCGGGTTTTAGCAGTCGTAGCGCATCTCCCCAAGCATCTGCAGCTTCATGGCGTGGTGCACACACTGCTGG
TAGTGGTGGATTCTGAATTCGTTGTAATGTTACAAAAGACCAAGTCGAACCTGCCGGCGTCAGCCGGCAGTCCTA
AACTTAGGTGCTAGCACCTATCGGCGCCTGTGACATTCAGCGGTGACAACCAAGTGACCCTGCGTCGAGGCAAAG
CCAGGTTGTACTCACTACCAGCAGGACGTGGTACCCTTACTTTATTGACCAGCCACTCAACCCTACTGCCTTAA
ACCGTCTTGTACTCAGCCACCAGGGCGTGCGGCAGCCTGCGGTTGATAGGAATTACATTGTCCAGCACAGAAAGC
GGTTGGATTTTTCTTCTGCGATAACTGCCTGCTTGCCCGTATGCCACTGCCCTTACAGGAAGGTATGTCTAGCTTC
CAGCCTGGCAGCTGTTGCGGCATTGAATCCATACATCCTTCCACCAGGTCTGTTATCCCAGTGGTTGTTCTCGTAAT
ACAGGGACACCTTCGGGGCAGAAAACAGGCCACTGTCCAGGTCAACTCCATAGTACTTGGTGCAAAATTTCAATTCAA
GGCCACCCTGGAGAGTAAGCTCTGTCTCCTTAAATGCTGTAATTATGGTGTCTCCACTCCTCTGCTGTCAATCTGA
TTCCGGCAGTGTCCAGGACAGGCACCAGGCTTTTCGCCAACACACGTTTCGCTTTGTTCTGGAACGCGTCCACAGG
CGCAGCCGGTCCCTTCAATCACCTTCAATTTTTGTGCTGTTCTTCTTGCCATCTTCCAATGTGGCCGTAAAGTTACC
CTGTGGAATGTTTATAGGACCTTAAATCCAGGATCGCCGGCCAGCGTTTTCCACACCAGCCTATCCTCAGTGCGC
GTCAGCAGTACATTCACGTGCTCCGACGCAGGGCATAACAAGGATTTTCATTCACCTTCTGCCTTACGGCGTATA
CCCCTTTGCGGGTGAGGCCCTGAGATGCTGCTGCTGTCATGACTTCGTGTCCACGGTAGTCCAACCTGCAGCTGCTTT
GCCAGCCTCGGAAGCATGTTAACACGATGTCTCCTGGCTTGGGCTTGGTCTGTCTGTTGTTGTTATGATTATGGG
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CAACGTCTGGATATACTTTTATGACATACTTCAGTGCAGATGTTGTGGTTGAAGTTCACCTTAAGCTGCATCATATT
GAAGAATCCGCATTGCTTGGGGTCTCCGCATAACACCACTTTGCTCCGAGGTTAACAAGAGCAATTAGGGCCAGC
AGAGTACCGGAATGGCAAGCGAAAGCCTCGTCCACATATAGGATGTCCACGGCACGACGACACCCGTTTAGCAGG
ATGGAGTCACTGTTTTCCCTACTTGTCCCTTCCCGCGGTGCTTCTTCACGTCGTTAACTATTCCTGGCAGTTCTCC
TTCTTGCCGCTGGTGACCAGATCGTGTGGTACGAGGCTCTTAATAATAGCAGACTTGCCTGATCCCGGAACCC
CAAAGACTCCTACTACTGTAGTCTTATATGGTGCCGACGGCCTGATCTTCAGCCCTTCGTAGGCGAATTCATGGAA
CGGGGGTGGTTAGTCTCTCCACCAACACCAAACCCGACGCTTCTCTCTTGACGCAGCATTTTTTATCTACGT
CGAACACGTACTCGGCGTCAGTTCTTTCAGCTCTGACTTCTCGTAGTTCTCCTCGTCGGTGTTCAGCGACGGTCCG
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GACCGGGCAGGGGCAGAAATCTGCCGAGATAACCAGCTTACGCTGGCGTGGATGCCCGGAGAGCAGGGGCAGC
AGGCGCTGCTGGCGTGGTTTAAATGAAGGCGATAACCCGTGCCTATAAAATCCGCTTCCCGAACGGCACGGTCGATGT
GTTCCGTGGCTGGGTCAGCAGTATCGGTAAGGCGGTGACGGCGAAGGAAGTGATCACCCGCACGGTGAAAGTCAC
CAATGTGGGACGTCCGTCGATGGCAGAAGATCGCAGCACGGTAACAGCGGCAACCGGCATGACCGTGACGCCTGC
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GCAACCGGAAGTTTACTGTGGAAGACGCCATCAGAACCGGCGGTTTCTGGTGGCGATGTCCCTGTGGCATAACCA
TCCGCAGAAAGACGCAGATGCCGTCCATGAATGAAGCCGTTAAACAGATTGAGCAGGAAGTGCTTACCACCTGGCC
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TCACCCTGCCGATGGTGGGGGCCACCTCGTGGCGGTGGCGACCGGTGCGCTGGCGTATGCCTGGTATCAGGGCA
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GGTCTGTCCAGAGCCGGCAGGCGGCAGGGCTGACGTTTAAACCAGACCAGCGAGTCACTCAGCGCACTGGTTAA
GGCGGGGTAAGCGGTGAGGCTCAGATTGCGTCCATCAGCCAGAGTGTGGCGGTTTCTCCTCTGCATCCGGCGTG
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CGAGAAAGAGTGCAGAAAACGCGGTGACGACTATCAGGAAATTTTTGCCAGCAGGTCCGTGAAACGATGGAGCG
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GGAGAAGAGTGACAGCAGAGCTGCGTAATCTCCGCATATTGCCAGCATGGCCTTTAATGAGCCGCTGATGCTTGA
ACCCGCCTATGCGCGGGTTTTCTTTTGTGCGCTTGCAGGCCAGCTTGGGATCAGCAGCCTGACGGATGCGGTGCC
GGCGACAGCCTGACTGCCAGGAGGCACTCGCGACGCTGGCATTATCCGGTGATGATGACGGACCACGACAGGCC
CGCAGTTATCAGGTCATGAACGGCATCGCCGTGCTGCCGGTGTCCGGCACGCTGGTCAGCCGGACGCGGGCGCTG
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GACGGCATTCTGCTCGATATGGACACGCCCCGGCGGGATGGTGGCGGGGGCATTGACTGCGCTGACATCATCGCC
CGTGTGCGTGACATAAAACCGGTATGGGCGCTTGCCAACGACATGAACTGCAGTGCAGGTCAGTTGCTTGCCAGTG
CCGCCTCCCGGCGTCTGGTCACGCAGACCGCCCGGACAGGCTCCATCGGCGTCATGATGGCTCACAGTAATTACGG
TGCTGCGCTGGAGAAACAGGGTGTGGAAATCACGCTGATTTACAGCGGCAGCCATAAGGTGGATGGCAACCCCTA
CAGCCATCTTCCGGATGACGTCCGGGAGACACTGCAGTCCCGGATGGACGCAACCCGCCAGATGTTTGCAGAA
GGTGTGCGCATATACCGGCTGTCCGTGCAGGTTGTGCTGGATACCGAGGCTGCAGTGTACAGCGGTCAGGAGGC
CATTGATGCCGACTGGCTGATGAACTTGTTAACAGCACCGATGCGATCACCGTCATGCGTGATGCACTGGATGCA
CGTAAATCCCGTCTCTCAGGAGGGCGAATGACCAAAGAGACTCAATCAACAAGTGTTCAGCCACTGCTTCGCAG
GCTGACGTTACTGACGTGGTGCACGACGGAGGGCGAGAACGCCAGCGCGGCGCAGCCGGACGTGAACGCGCA
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AGAACAGGCACGCGTGTGCGCAGAAAACCCCGGTATGACCGTGAAAACGGCCCCGCCGATTCTGGCCGCAGCACC
ACAGAGTGACAGGCGCGCAGTGACACTGCGCTGGATCGTCTGATGCAGGGGGCACCGGCACCGCTGGCTGCAGG
TAACCCGGCATCTGATGCCGTTAACGATTTGCTGAACACACCAGTGTAAAGGGATGTTTATGACGAGCAAAGAAAC
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TGCTGCCGTTGGCATTCTTGCAGTTGCTGCTGACCAGACCAGCACCACGCTGACGTTCTACAAGTCCGGCACGTT
CGTTATGAGGATGTGCTCTGGCCGGAGGCTGCCAGCGACGAGACGAAAAACGGACCGGCTTTGCCGGAACGGCA
ATCAGCATCGTTAACTTTACCCTTCATCACTAAAGGCCGCTGTGCGGCTTTTTTTACGGGATTTTTTTATGTCGAT
GTACACAACCGCCCAAGAGCTCCAGCTTTTGTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTC
ATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTA
GCCTGGGGTGCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACC
TGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTC
CTCGCTCACTGACTCGCTGCGCTCGGTCGTTCCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGG
TTATCCACAGAATCAGGGGATAACGCAGGAAAGAA-(Ligation site for the 500 bp-long DBCO labeled DNA)

Sequence of the centromeric DNA (cenDNA)

(Ligation site for the biotin labeled DNA fragment)-

GTGCTGGAATTCGCCCTTCATCACAAAGAAGTTTCTGAGAATGCTTCTGTCTAGTTTTTATACGAAGATATCCCTT
TTCTGCCTTTGACCCCAAAGCGCTTGAATCTCCACTTGCAAATTCACAAAAACAGTGTTCAAATCTGCTCTCTC
TAAATGAAAGTTCAACTCTGTCAGTTGAATACACTCAACACAAGGAAGTTACTGAGAATTTCTGTCTAGCATAA
TATGAAGAAATCCCGTTTCCAACGAAGGCCTCAAAGGGGTCTGAATATCCACTTGCAGACTTTATAAACAGAGTGT
TTACTAACTGCTCTATGAAAAGAAACGTTAACTCTGTGAGTTGAACACACACATCACAAAGGAGTTTCTGAGAAT
CATTCTGTCTAGTTTTTCTACGAAGATATTTCTTTTCTACTATTGACCTGAAAGCAGCTGAAATCTCCACTTGCAA

ATTCCACAAAAAGAGTGTTC AAGTCTGCTCTGTGTAAAGGATCGTTCAACTCTGTGAGTTGAATACACACAACAC
AAGGAAGTACTGAGAATTCTTCTCTCTAGCAGAATATGAAGAAATCCCGTTTCCAACGAAGGCCTCAAAGAGGTC
TGAATATCCACTTGACAGACTTTACAAACAGAGTGTTCCTAACTGCTCTATGAAAAGGAAGGTTCAACTCTGTGAG
TTGAATGCAAAGGGCGAATTCTGCAGACGCTGTGCTGGAATTCGCCCTTCATCACAAAGAAGTTTCTGAGAATGCT
TCTGTCTAGTTTTTATACGAAGATATTCCTTTTCTGCCTTTGACCCCAAAGCGCTTGAAATCTCCACTTGCAAATTC
CACAAAAACAGTGTTC AATCTGCTCTCTCTAAATGAAAGTTCAACTCTGTCAGTTGAATACACTCAACACAAGG
AAGTTACTGAGAATCTTCTGTCTAGCATAATATGAAGAAATCCCGTTTCCAACGAAGGCCTCAAAGGGGTCTGAA
TATCCACTTGACAGACTTTATAAACAGAGTGTTTACTAACTGCTCTATGAAAAGAAACGTTAAACTCTGTGAGTTGA
ACACACACATCACAAAGGAGTTTCTGAGAATCATTCTGTCTAGTTTTTCTACGAAGATATTCCTTTTCTACTATTG
ACCTGAAAAGCAGCTGAAATCTCCACTTGCAAATTCACAAAAAGAGTGTTC AAGTCTGCTCTGTGTAAAGGATCG
TTCAACTCTGTGAGTTGAATACACACAACACAAGGAAGTTACTGAGAATCTTCTCTCTAGCAGAATATGAAGAAA
TCCCGTTTCCAACGAAGGCCTCAAAGAGGTCTGAATATCCACTTGACAGACTTTACAAACAGAGTGTTCCTAACTG
CTCTATGAAAAGGAAGGTTCAACTCTGTGAGTTGAATGCAAAGGGCGAATTCTGCAGAGCGTGTGCTGGAATTCG
CCCTTCATCACAAAGAAGTTTCTGAGAATGCTTCTGTCTAGTTTTTATACGAAGATATTCCTTTTCTGCCTTTGACC
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AACTCTGTCAGTTGAATACACTCAACACAAGGAAGTTACTGAGAATCTTCTGTCTAGCATAATATGAAGAAATCC
CGTTTCCAACGAAGGCCTCAAAGGGGTCTGAATATCCACTTGACAGACTTTATAAACAGAGTGTTTACTAACTGCTC
TATGAAAAGAAACGTTAAACTCTGTGAGTTGAACACACACATCACAAAGGAGTTTCTGAGAATCATTCTGTCTAGT
TTTTCTACGAAGATATTCCTTTTCTACTATTGACCTGAAAGCAGCTGAAATCTCCACTTGCAAATTCACAAAAAG
AGTGTTC AAGTCTGCTCTGTGTAAAGGATCGTTCAACTCTGTGAGTTGAATACACACAACACAAGGAAGTTACTG
AGAATCTTCTCTCTAGCAGAATATGAAGAAATCCCGTTTCCAACGAAGGCCTCAAAGAGGTCTGAATATCCACTT
GCAGACTTTACAAACAGAGTGTTCCTAACTGCTCTATGAAAAGGAAGGTTCAACTCTGTGAGTTGAATGCAAAGG
GCGAATTCTGCAGAGTATGTGTGCTGGAATTCGCCCTTCATCACAAAGAAGTTTCTGAGAATGCTTCTGTCTAGTTT
TTATACGAAGATATTCCTTTTCTGCCTTTGACCCCAAAGCGCTTGAAATCTCCACTTGCAAATTCACAAAAACAG
TGTTTCAAATCTGCTCTCTCTAAATGAAAGTTCAACTCTGTCAGTTGAATACACTCAACACAAGGAAGTTACTGAG
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GCTGAAATCTCCACTTGCAAATTCACAAAAAGAGTGTTC AAGTCTGCTCTGTGTAAAGGATCGTTCAACTCTGT
GAGTTGAATACACACAACACAAGGAAGTTACTGAGAATCTTCTCTCTAGCAGAATATGAAGAAATCCCGTTTCCA
ACGAAGGCCTCAAAGAGGTCTGAATATCCACTTGACAGACTTTACAAACAGAGTGTTCCTAACTGCTCTATGAAA
GGAAGGTTCAACTCTGTGAGTTGAATGCAAAGGGCGAATTCTGCAGATTGAGTGTGCTGGAATTCGCCCTTCATCA
CAAAGAAGTTTCTGAGAATGCTTCTGTCTAGTTTTTATACGAAGATATTCCTTTTCTGCCTTTGACCCCAAAGCGC
TTGAAATCTCCACTTGCAAATTCACAAAAACAGTGTTC AATCTGCTCTCTCTAAATGAAAGTTCAACTCTGTCA
GTTGAATACACTCAACACAAGGAAGTTACTGAGAATCTTCTGTCTAGCATAATATGAAGAAATCCCGTTTCCAAC
GAAGGCCTCAAAGGGGTCTGAATATCCACTTGACAGACTTTATAAACAGAGTGTTTACTAACTGCTCTATGAAAAGA
AACGTTAAACTCTGTGAGTTGAACACACACATCACAAAGGAGTTTCTGAGAATCATTCTGTCTAGTTTTTCTACGA
AGATATTCCTTTTCTACTATTGACCTGAAAGCAGCTGAAATCTCCACTTGCAAATTCACAAAAAGAGTGTTC A
GTCTGCTCTGTGTAAAGGATCGTTCAACTCTGTGAGTTGAATACACACAACACAAGGAAGTTACTGAGAATCTTCT
TCTCTAGCAGAATATGAAGAAATCCCGTTTCCAACGAAGGCCTCAAAGAGGTCTGAATATCCACTTGACAGACTTTA

CAAACAGAGTGTTTCCTAACTGCTCTATGAAAAGGAAGGTTCAACTCTGTGAGTTGAATGCAAAGGGCGAATTCTG
CAGA-(Ligation site for the DBCO labeled DNA fragments)

Sequence of the biotin-labeled DNA fragment

(This fragment is made by PCR amplification with biotin-dUTP)

GACCGAGATAGGGTTGAGTGTGTTCCAGTTTGAACAAGAGTCCACTATTAAGAACGTGGACTCCAACGTCAA
AGGGCGAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCTAATCAAGTTTTTGGGGTTCGAG
GTGCCGTAAAGCACTAAATCGGAACCCTAAAGGGAGCCCCGATTTAGAGCTTGACGGGAAAGCCGGCGAACGT
GGCGAGAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTCACGCTGCGCG
TAACCACACACCCGCGCTTAATGCGCCGCTACAGGGCGCGTCCCATTCGCCATTCAGGCTGCGCAACTGTTG
GGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAG
TTGGGTAACGCCAGCTGG (Ligation site for the random/cenDNA fragment)

Sequence of the DBCO-labeled DNA fragment

(This fragment is made by PCR amplification with DBCO-dUTP)

(Ligation site for the random/cenDNA fragment)-

CCTACTGGCGTTACCCAACCTAATCGCCTTGACGACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCC
GCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAAGCG
CGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGTCCCTTTCGCTTTCTTC
CCTTCCTTTCGCCACGTTGCGCCGGCTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAG
TGCTTTACGGCACCTCGACCCCAAAAACCTTGATTAGGGTGATGGTTCACGTAGTGGCCATCGCCCTGATAGACG
GTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTAATAGTGGACTCTTGTTCCAAACCTGGAACAACACTCAACCC
TATCTCGGTC