

Supplemental file 2. Alignments showing indels in de novo assembly libraries creating gaps. Each alignment shows the reference sequence from de novo assembly based on Illumina reads, sequences of MA line with the indel and the control line by Sanger sequencing. Indels are marked red, bold and underlined. Please note most of the flanking alignments were omitted for visualization purpose.

>1:scaffold4:9285

Ref: CAAATGTGACAGCGGGCAAGCCAGCCCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
MA: CAAATGTGACAGCGGGCAAGCCAGCCCCCTATTTTGATCTTCGCCAGTCGTA
Control: CAAATGTGACAGCGGGCAAGCCAGCCCC-TATTTTGATCTTCGCCAGTCGTA

>1:scaffold15:12931

GCGCTCGCGGCTGGAAGCGTTTATGGGGGG-----NNNNNNNNNNNNNNNGCTTGCCAC
GCGCTCGCGGCTGGAAGCGTTTATGGGGGGGCTGAGAGCGCTAAGCGGCACGTATCTCTGCGCTTCTCTTGCCGCATCTGCTTGA
CGCTTGCCAC
GCGCTCGCGGCTGGAAGCGTTTATGGGGGG-CTGAGAGCGCTAAGCGGCACGTATCTCTGCGCTTCTCTTGCCGCATCTGCTTGA
GCTTGCCAC

>67:scaffold32:82543

ATCGCCAAACATCAATTGCAGACAGGGGG-----NNNNNNNNNNNACTGATAATACGGT
ATCGCCAAACATCAATTGCAGACAGGGGGGAAATCTGAAGCCCGGCGGTTCTGATTGAACTTGAAGGCTGCGACCTGGCAGGCC
TGACTGATAATACGGT
ATCGCCAAACATCAATTGCAGACAGGGGG-AAATCTGAAGCCCGGCGGTTCTGATTGAACTTGAAGGCTGCGACCTGGCAGGCCT
GACTGATAATACGGT

>67:scaffold37:206678

CGATCACGCCAGGGCGTCAACGTGGGGGG-----NNNNTCACCGGGGACATTTTCTCC
CGATCACGCCAGGGCGTCAACGTGGGGGGGTGTGGCTGTCGGTGCCGACGCAGGTATCCGGGAAGGCCACGCCATCACGCACCT
GGATCACCGGGGACATTTTCTCC
CGATCACGCCAGGGCGTCAACGTGGGGGG-TGTGGCTGTCGGTGCCGACGCAGGTATCCGGGAAGGCCACGCCATCACGCACCTG
GATCACCGGGGACATTTTCTCC

>67:scaffold38:13174:de_novo

CGCGGCGACCGCGATGGCCGCTGCGGTGTT-----NNNNNNNNNNNNNNNTCGTCGAGGGTGCG
CGCGGCGACCGCGATGGCCGCTGCGGTGTTIGCGGCCAAACGTTTCGAGCAGCAAATCCAGGCCAGTTGGCCGGTGTGACCGCG
CGGTAATCGTCGAGGGTGCG
CGCGGCGACCGCGATGGCCGCTGCGGTGTT-GCGGCCAAACGTTTCGAGCAGCAAATCCAGGCCAGTTGGCCGGTGTGACCGCG
CGGTAATCGTCGAGGGTGCG

>73:scaffold5:119898

CCGGCAACTGGAACCAGAACATCGGCC-----NNNNNTGGTGAAGCCCTGGCCAGC
CCGGCAACTGGAACCAGAACATCGGCCCTGCACTTTGGCAGTGATGTGCACGGCAAGACCCTGGGCATCATTGGCATGGGGCG
CATTGGTGAAGCCCTGGCCAGC
CCGGCAACTGGAACCAGAACATCGGCC-TGCACTTTGGCAGTGATGTGCACGGCAGGACCCAGCGCATCATTGGCATGGGGCGC
ATTGGTGAAGCCCTGGCCAGC

>73:scaffold8:99634:de_novo

CACACGCAAATCCAGGGAGGCCAGCTT-GGG-----
GNNNNNGGGGTAAAAAAGCATGCATCT

CACACGCAAATCCAGGGAGGCCAGCTTGGGGTCCGTCAGGCGGATCTTCAGCGTGTCCAGTTCAAGGTTGTGGGTCATTGACTTG
GCCAAGGGGTAAAAAAGCATGCATCT

CACACGCAAATCCAGGGAGGCCAGCTT-GGGTCCGTCAGGCGGATCTTCAGCGTGTCCAGTTCAAGGTTGTGGGTCATTGACTTGG
CCAAGGGGTAAAAAAGCATGCATCT