The 2kb DNA sequences (1kb upstream and 1kb downstream sequences of breakpoint) immediately flanking the **left** breakpoint of deletion in *muw* attained from the *MUW* genome. Black segment indicates that sequences are present in *muw* and MUW genome. Red segment indicates that sequences are present in MUW genome but deleted from *muw* genome. Breakpoint is between black segment and red segment.

5’CTTTGCTATGTGATAATGAGAGTGCAATTAAAATGGCCGACAATCCCGTCGAGCATAGCCGCACTAAGCACATAGCCATTCGGTATCATTTTCTTAGGGATCACCAACAAAAGGGGGATATCGAGATTTCTTACATTAATACTAAAGATCAATTAGCCGATATCTTTACCAAGCCACTTGATGAACAATCTTTTACCAGACTTAGGCATGAGCTCAATATTCTTGATTCTAGAAATTTCTTTTTCTAAGCTTGCACACATAGCTCATTTGAATATCTTTGATCATATCTCTTTTATATGCTATGACTAATGTGTTTTCAAGTCTATTTCAAACCAAGTCATAGGTATATTGAAAGGGAATTGGAGTCTTCGGCGAAGAAAAAGGCTTCCACTCCGTAACTCATACTTCGCCATCACTCCGAGCAACTCTCTCTTCCTTGGGGAGAAATGAGCATCAAAGAAAAGGACTTCATCCTTCGAGGAGAGAGCAAAAGCTCAAAAGCAAAAGGACCGGATTTCGTCTTTGGTATAATCTTAACTCATTTACTTATGACCAAAGGGGAAGAACTTACTTCAAGAGCTCTAATGATTCCGTTTTTGGCGATTCATGCCAAAAAGGGGGAGAAATGAGCCCAAAGCAAAGGACCGCATCACCACCACCACCAAATTCAAAAACTTAGTGCTTTCCAAAAGTCTTTATCATTTGGTATCCTATTATGTTCAAAAGGGGGAGAAAGTAGTATTTCAAAAATGGTATATCAAAACCCTCTTGAACACTAAGAGGTGGATCTCTTTTAGGGGGAGTTTTGTTTAGTCAAAGGAAAAGCATTTGAAACAGGGGGAGGAAATTTCAAATCTTGAAAATGCTTTTGCAAACTCTTATTTATTTACCTTTGACTATTTGCAAAAGATCTATGAAAAGGATTTACAAAAGGTTTTGCAAAAACAAAACAAGTGGTGCAAACGTGGTCCAAAATGTTATATAAGAAAGAAACATTCCTTGCATATCTTGTAAGTAGTTATATTGGCTCAATTCCAAGTAACCTTTTCACTTACATTATGCAAACTAGTTCAATTATGCACTTCTACATTTGCTTTGGTTTGTGTTGGCATCAATCACCAAAAAGGGGGAGATTGAAAGGGAATTAGGCTTACACCTAGTTCCTAAATAATTTTGGTGGTTGAATTGCCCAACACAAATATTGGACTGACTAGTTTGCTCTAGTGTATAAGATGTACAGGTGCAAAAGGTTCACTTCTAGCCAATAAAAAGATCAAGTATTGGATTCAATAAAGGAGCAAAGGGGCAACCGAGGGCACCCCTGGTCTGGCGCACCGGACTGTCCGGTGTGCCACCGGACAGTGAACAGTACCTGTCCGGTGCACCAGGGAACTCAGACTCAAACTCTTCACCCTCGGGATTTCTCGGAAGGCGGCGCGCTATAATTCACCGGACTGTCCGGTGTGCACCGGACATGTCCGGTGCTCCAAGGAAGCTCGACCTCCTGAACTCGCCAGCCTCGGGTTTGCGCGGCAGCCGCTCCGCTATAATTCACCGGACTGTCCGGTGTGCACCGGACTGTCCGGTGTGCCAGCGGAGCAACGGGTCCCTGCGGCGCCAACGGCTCCCTGCGCTGCATTTAATGCGCGCGCAGCGCGCGCAGAAGGCAGAATCGCCCATACCGGTGCACCGGACATCAAACAGTGCATGTCCGGTGTACACCGGACATCCAGGCGGGGCCACATGTCAGAGCTCCAACGGTCAGAATCCAACGGCAACGATGACGTGGCAGGGGGCACCGGACTGTCCGGTGTGCACCGGTCTGTCCGGTGCGCCATCGAACAGAGAGCTCCCAGCAACGGCCACATTTGGTGGTTGGGGCTATAAATACCCCAACCACCCCACATTCATAGCCATCCAAGTTTTCCAACTTCTAACCACTTACAAGAGCTAGGCATTCAATTCTAGACACATACAAAGAGATCAAATCCTCTCCAATT

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5’AAGCTAATCCCAAATGAATGAGGGATAGGGGACTCCGCGCAGTTGCTTTGATTCTTTTCATTTCCTGCTCAAAAATTCCAAAAGTAATATTAGACCAAAAGTGTTTTGAGATGAATCAAAGAAAAAGAAAAAGTATTACCTTCGAAGCTAGGAGGGGCCTTCGACTGCTTCGACAGTTTCTGTTTTTGAAGTCCTTGCAGTAAGTAGTTTTGCAGCCCTTTCTAAAAAGTACGACTTCGGCTGGTGGGTTAGAATTTTTGCTTTCTTAGGCCTTAGCACAACAGAATAAGTTTTTGGTGCACTTTTCCTTTTTTACCCCCTCTTTCGAGCAGGGAAGCAGTAATCAGGGTAAATGAATCCAATAGCATCAAAAACCCTGTTCAATCTTTATTTTCCTCGGGCACCGAAGGCAACATACATGGCTTCGTCCTCAGCCTTCGTATAGGTCCCTAACAATTCATCACTTGTTGCTTCAATGGCATCAAGCCAATCATCATCTGGCTCACTAAATTGATTCCTTTGGCATTTCCCATTCGACGGTTAGGGGCCAAACCTTGAAGGCTATGTGGTCCTGCTAAGTCCCTAGTGCTGATGTAGTTGCACACAACATTAAATGCCACCAGGTAGCCTTGAGATCTTTCTATATTCACGATAGCAGGCCTCCTCAATCCGAAGCATGATCGGATAGGCCACTAGATTACATCCATACTATCACTTCTTTGACTCGGGTCATTCTTTACATAAAACCACTGCTTCATCCATGAGCCCAACCACTTTTTTCGAAAAGTTGGCACGGGATGCCTAGGATCTGACTGGTACACGAAGGTATAACATCCAAAGTTATTATGATATTGCTCTTTTCGAGTGGCCTTCGTCTGGTAGGACAATTCATGAATAATGCAAAAGCAATCGACATCTGGTTCCAGTCCTCGGCTTCTTATTGCTCAAATGAAGATCCCAACCTTAACCAATGCGTCAGGAGTAAGCTGATGAAGAAATATTTCAAACTTTTTTAAGACTTAAACCAACATCCTGTGTAAGGGGAACCGTAGCCCAACTTTCATGAAGCTTCGAAAAACCATTACCTCATCTTTCTTAGGAAGAGGAACAATATTCTCACCATCGATTCTCACTATAGATACATCATGAAAATATCTACCCTTCATAGCCTCAACATGCCCTTTCTTTACAGTTCATTTCCCGAAGACCACGTGACTCGACCTCCATGGCCGATCTTCGACATCATCATTACCACTGTCAACATAAAAATCCTCGCTGTCTCCAGAATCTTCAAACAGCCTAGCTAAAATTTCTTCAGTTATTTTCTCAACATTAGTCCTCTTCATAGCTTTGTAAAACCCAGCCAGTGCGAGATCCTCACTCCTCTTGTCTTCGGCCATCTCAGCTTTGGTTAAAACAAAAAGGCAAAGCTCGAAAACAGTCGCGGTTATAGTAGCAACAAGCTAAAAGCCAACGGAAACTTGATAGCACGAAAAATATTTTATCACAATCCTCATATATAAATGCAAAGCACTACTACAGAGTGGCCCCCACGGTTCAGAAGGTTTCGCTATTCTAGCGAAGGGAAGGTGTTTTTTCGGACCTTCGGCTAAAGGCTTTCGTTCGTTTCACAGTCTGAGTTTGTTACAGAGAAACAAACTAACACTGCGAGGGGCTACTGTTGGGGGCCTTCGTCTTCCGAAGGTCTTAAAAAACATGGTTAATCATTTGTTATCAGCATATTACTAAGTGTTATAGGAGCTTCAGAATCAAAATAGCTTCTGCGTAGAATGGTGGAAGCGCAACGAAGTTAGCTTCGTCACAACGACTCGGGAAGACGATACAAGGAGAATGTATTATCCAAGTTGCTAGGAGCAAATGACAATGCTGTCCCTATGATATTTGTAAACTTTGTGTGTAATTTATGAGGTTATGAATGTAATATCATACAAAGTTGTACGACTCCCTATAAATAGATGAACAGTGCCCTACATAAAAGT