**Supplemental file 3.** Supplemental sequences.

**Inverse PCR**

>*nGuy1-1*, Insertion site matches scaffold\_00109

ATTACTGAGATGTCCTAAATGCACAGCGACGGATTCGCGCTATTTAGAAAGA

GAGAGCAATATTTCAAGAATGCATGCGTCAATTTTACGCAGACTATCTTTCTAGGGTTAA

TGAATGCGTCCTTCGGCTTCGGAGAGGAACGACGTCGCTTAGGAACCGGGAAGCCCTCGC

CCTCGAAACCGCTGGGCGCGGTGGTCACGGTGAGCACGGGACGTGCGACGGCGTCGGCGG

GTGCGGATACGCGGGGCAGCGTCAGCGGGTTCTCGACGGTCACGGCGGGCATGTCGACAG

ATCTGACAATGTTCAGTGCAGAGACTCGGA

>*nGuy1-2*, Insertion site matches scaffold\_00082

ACTGAGATGTCCTAAATGCACAGCGACGGATTCGCGCTATTTAGAAAGAGGTGCTAAGAACCACCAACAGT

GATCAGGGTTGGAAAGCAAATGCACGCATCGAGTTTTGAAACTCCTAAGAAAACATCGTA

AATCGGCTTTAGACCGAAAGCACTCGCCCGAACCTCCCCAAATCGTCCGTTCTTGTTAGG

GGGCCGTTTTTTTGTCGTTGTTTTGTTTCTGTTTACAACGAGTGCCCATTTTCACGCAAT

CGGTGCAAACGGCGCAAGCAACAAAACTGGTGGAAAATTATTTCGTCACCCGGGAAGCCC

TCGCCCTCGAAACCGCTGGGCGCGGTGGTCACGGTGAACACGGGACGTGCGACGGCGTCG

GCGGGTGCGGATACGCGGGGCAGCGTCAGCGGGTTCTCGACGGTCACGGCGGGCATGTCG

ACAGATCTGACAATGTTCAGTGCAGAGACTCGGA

>Guy1m, Flanking sequence is too short to conclusively locate the insertion site.

ATTCCGAGTCTCTGCACTGAACATTGTCAGATCTGTCGACATGCCCGCCGTGACCGTCGAGAACCCGCTGACGCTGCCCCGCGTATCCGCACCCGCCGACGCCGTCGCACATCCCGTGCTCACCGTGACCACCGCGCC

CAGCGGTTTCGAGGGCGAGGGCTTCCCGGATGTCGCGCACCGCGTTTTTAACCCTAGAAA

GATAGTCTGCGTAAAATTGACGCATGCATTCTTGAAATATTGCTCTCTCTTTCTAAATAG

CGCGAATCCGTCGCTGTGCATTTAGGACATCTCAGTA

**Synthesis of the bGuy1C and bGuy1N constructs**

>bGuy1C Guy1\_CDS\_CTag\_EE1

AAAAGCCTAGGCAAATTATGAATTCACAAAGTAGGCGATACAAAAACATTGAATTAGTGA

ATAATCTGAAAGCTTATCTGACTTGGAATGATAAATCAAGTTTTCAGGTTAAACACTCTG

CTGTGACATTGGAAAAAAAGAAAAGTAAAACAAAAATATGTAACGTACTCTATGAAGCAA

TCACAGGTGGAGGTGGTGGAGGTGGTGGTTGGTCACACCCCCAATTTGAAAAATAATTTT

TCCTCAGCGCC

>bGuy1N Guy1\_CDS\_Ntag\_EE1no

AAAAGCCTAGGATGTGGTCACACCCCCAATTTGAAAAAGGTGGAGGTGGTGGAGGTGGTG

GTATGAATTCACAAAGTAGGCGATACAAAAACATTGAATTAGTGAATAATCTGAAAGCTT

ATCTGACTTGGAATGATAAATCAAGTTTTCAGGTTAAACACTCTGCTGTGACATTGGAAA

AAAAGAAAAGTAAAACAAAAATATGTAACGTACTCTATGAAGCAATCACATAAATAGTTC

ACAACGAAAAAAAGGCACATTTAGCATATCTGAAAATAAAACGTGACAGACAATAGCATA

AGACCACTTTGTGTGTTAATATAGTAAAATAGAGGCTATGGTGTCAATTTTTAACGGATC

GACTTAGTTTTTTTTTTGTAAAATTTAGTTTCACATGTTGGAAAAACGTTTCTTAATTAA

GTCGA