

Table S2. Relevant sequences of the integrative cassettes

Sequence name	Sequence (5'-3')
<i>ADR304W</i> -left flank	AGTCCAAAACAGGGGAGCAGCGTGTAGAGCGCGCTAAGCCGGAGAACGTGGAGGAGGC ACTGCGCCTGATTGAGGACCTGAAGTTCTTTCTTGCCACGGCGCCCGCAACTGGCAGG AAAACCAGGTGATCCGACGCTACTACTTGAACAACGACGAAGGCTTTGTGTCGTGCGTGT TCTGGAACAATCTGTACTATATCACGGGGACGGACATTGTGCGATGCTGCGTGTACCGCA TGCAGAAGTTCGGCCGCGAGGTTGTGCAACGCAAGAAATTCGAGGAGGGGATCTTCTCT GATCTGCGGAACCTAAAGTGTGGGGTGGACGCCACGCTGGAGATGCCCAAGTCTGAGTT TCTGTCGTTTTCTGTACAAGAATCTGTGTCTGAAGACGCAGAAGAAGCAAAAGGTATTCTTC TGGTTTCAGCGTACCGCACGACAAGCTGTTTTCGGGACGCTCTGGAGCGAGATTTGCGCCG CGAGGTGGCCGGCCAGCCGTCTACCACCCGCGCCATAGCGGAGCCTGCGCTGACCTTT CGATACGACGACCAGTCTGGAACGTCGCTCTACGATCAGGTCGTACAGCATGTGG
<i>ADR304W</i> -right flank	ACACTGATGACGATCCCAGCAACGAGGATCAGGATTCCGATAACGTCAACGAACCGATAG AAGAACATGTTCCGATTTCAAATAATCCAGAAATAGTAGTGGGATGGGTGCTTTTCCGCC GCAAGATGCATACCTCGGCTACCAAGGCGTACCGCCAGCTGCCATGTATCCATATGTTAT GCCAGATGTTTTCTACAATAATACATATCCAGGCGGCGATGAGTTGTATGAACAATGGATG CATATGCAGTTTTGGTCAACCACAGCAGAATGATCTGTTTCATGCCCCGCAAGCGCCATTT ATGGGGCGCTCTTTCACTCCAATATACCGTACCACACCAACAAATCCATACATGGCCATTT CTCCATATCAGTCAAAGCCTCCTACGTCTTCTACTGCAAAAACTTTCCATTTTATCAGGG ATATTATGGTCGACGGGGAAATATGCACTCATACCTACGCGGATTCCCCTCGATCCAAGC CACACAGCCTTCTTCTGCCACGCGCATGCACTTTGTTAAGCACAACAGGGTAGGCACTCA AATGCGGCTGCATC
<i>AGL034C</i> -left flank	TGTGTCAAGTTCGATGGGCGGTATTTTGTCTAGCAACTAAAAGCTATATAAGGGCAACG ATCCCTCATCTATTCAATCGTCTGGTTCGTATTCCCCACTCAATTCTAAGCTATTCATCAGT CAACGAGAAAGTTCTTAGACAAACAAGAAACATTATAGGAAATGAAAACCGCCAACGTTCTA ACCGCTTTTGCTGCATCTACCGCCTTGTCGCTAACCCAGCCAGTGCATTCATCACAAC GGTGCCGGAGCACCTCAAGTGGATGACAATCCAAAAGACGCCTGCTACGTAGCCGAGTT CCCACAAGCCGGGAGCGACAAAGTAGCAGGTTACGTTACATTCACAGCATATGAAGGCAT GACCAAGGTCAGCGTCGACTTGCCACTGTGGTAAATCCAGAGGACGAAGGATTCTCCT ACCACGTTACGAAAAGCCAATTGAATCGGGAGATGAGTGTGCATGTTACGGAAACGGTG ACGAAGTCGACCCATACACTGGCATTGCTAGTTGCTCAGATGTCAAGGACAAATCTCTAT GTAAGGTCGGTGACCTAAGTGGCAAATACGGGAACATAGAGTCCAATGTGTTCAAAGCGA AATATTTGGACCCATATCTAGGGCTATACAGCTCATCCCCAAGTTTTATTGGAGTTCGCTC CCTAACAAATACACAACGGCGACAAGAGGCTAGCGTGT
<i>AGL034C</i> -right flank	GCCTGAGGAGCAGCCTGAAGACAAGCCTGAAGACAAGCCAGAGGAACCCAGAGGACAAG CCAGAGGAACCCAGAGGAGCAGCCAGAAGGACCTGGTGTTCCAGCTCCAAAGGAACCTGA GACTCCAGAAGGCGAAACCCCAAGGTCCAACCGGTCCAGGTGTCCAGCTCCAGAGG CTCCAGAGGCTCCAGAAGCTCCAGAAGCTCCAGAGGCACCAAGCTCCAGAAGGCCCA ACCGGTCCAGGTGTCCAGCTCCAGAGGCTCCAGCTCCAGAGGCCCAAGTCCAGATCCAGA AGGCCCAACCGGTCCAGGTGTCCAGCTCCAGAGGCTCCAGAGCTCCAGAGGCTCCA GAGGTTCAGAGGCTCCAGAAGCTCCAGAGGCTCCAGAGGCTCCAGAGGCTCCAGAGG CTCCAGAGGCTCCAGAGGTTCCAGAGGCTCCAGAGGCTCCAGAGGCTCCAAGTGTCCCA TCACCCGCTCCAGAAGTTCGAAGTGGCCAGGTGTTCTGCAACAGCTCCTACCTCTGTT CCAGACGGAAGACCTGCCCCAGTCATCCCAT
<i>Renilla</i> luciferase from plasmid pRL-SV40 (NCBI accession number AF025845.2)	ATGACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGG TGGGCCAGATGTAAACAAATGAATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAA ACATGCAGAAAAATGCTGTTATTTTTTACATGGTAACGCGGCCTCTTCTTATTTATGGCGA CATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATACCAGACCTTATTGGTATG GGCAAATCAGGCAAATCTGGTAATGGTTCTTATAGGTTACTTGATCATTACAAATATCTTAC TGCATGGTTTTGAAGTTCTTAATTTACCAAGAAGATCATTTTTGTGCGCCATGATTGGGGT GCTTGTTTGGCATTTTCATTATAGCTATGAGCATCAAGATAAGATCAAAGCAATAGTTCACG CTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAAGAAGATAT TGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGTTTTGGAGAATAACTTCTTCGTGGAA ACCATGTTGCCATCAAAAAATCATGAGAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTG AACCATTCAAAGAGAAAGGTGAAGTTCGTCGTCCAACATTATCATGGCCTCGTGAAATCC CGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAATTATAATGCTTATCTA CGTGCAAGTGATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATG CTATTGTTGAAGGTGCCAAGAAGTTTCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCAT

	TTTTCGCAAGAAGATGCACCTGATGAAATGGGAAAAATATATCAAATCGTTCGTTGAGCGAG TTCTCAAAAATGAACAATAG
Firefly luciferase from plasmid pRL-SV40 (NCBI accession number AF025845.2)	ATGGAAGACGCCAAAAACATAAAGAAAGGCCCGGCCATTCTATCCTCTAGAGGATGGA ACCGCTGGAGAGCAACTGCATAAGGCTATGAAGAGATACGCCCTGGTTCCTGGAACAATT GCTTTTACAGATGCACATATCGAGGTGAACATCACGTACGCGGAATACTTCGAAATGTCC GTTCCGTTGGCAGAAGCTATGAAACGATATGGGCTGAATACAAATCACAGAATCGTCGTA TGCAGTGAAAACTCTCTTCAATTCTTTATGCCGGTGTGGGCGCGTTATTTATCGGAGTTG CAGTTGCGCCCGCGAACGACATTATAATGAACGTGAATTGCTCAACAGTATGAACATTTT GCAGCCTACCGTAGTGTTTGTTCCTCAAAAAGGGGTTGCAAAAAATTTTGAACGTGCAAAAA AAATTACCAATAATCCAGAAAATTATTATCATGGATTCTAAAACGGATTACCAGGGATTTC GTCGATGTACACGTTTCGTACATCTCATCTACCTCCCGGTTTTAATGAATACGATTTTGTA CCAGAGTCCTTTGATCGTGACAAAACAATTGCACTGATAATGAATTCTCTGGATCTACTG GGTTACCTAAGGGTGTGGCCCTTCCGCATAGAAGTGCCTGCGTCAGATTCTCGCATGCCA GAGATCCTATTTTTGGCAATCAAATCATTCCGGATACTGCGATTTTAAGTGTTGTTCCATTC CATCACGGTTTTTGAATGTTTACTACACTCGGATATTTGATATGTGGATTTTCGAGTCGTCT TAATGTATAGATTTGAAGAGGAGCTGTTTTTACGATCCCTTCAGGATTACAAAATTCAAAGT GCGTTGCTAGTACCAACCCTATTTTCATTCTTCGCCAAAAGCACTCTGATTGACAAATACG ATTTATCTAATTTACACGAAATTGCTTCTGGGGGCGCACCTCTTCGAAAGAAGTCGGGGA AGCGGTTGCAAAACGCTTCCATCTTCCAGGGATACGACAAGGATATGGGCTCACTGAGAC TACATCAGCTATTCTGATTACACCCGAGGGGGATGATAAACCGGGCGCGGTTCGGTAAAGT TGTTCCATTTTTTGAAGCGAAGGTTGTGGATCTGGATACCGGGAAAACGCTGGGCGTTAA TCAGAGAGGCGAATTATGTGTCAGAGGACCTATGATTATGTCCGTTATGTAAACAATCC GGAAGCGACCAACGCCTTGATTGACAAGGATGGATGGCTACATTCTGGAGACATAGCTTA CTGGGACGAAGACGAACACTTCTTCATAGTTGACCGCTTGAAGTCTTTAATTAATACAAA GGATATCAGGTGGCCCCCGCTGAATTGGAATCGATATTGTTACAACACCCCAACATCTTC GACGCGGGCGTGGCAGGTCTTCCCGACGATGACGCCGGTGAACCTCCCGCCGCCGTTG TTGTTTTGGAGCACGAAAGACGATGACGAAAAAGAGATCGTGATTACGTCGCCAGTC AAGTAACAACCGCGAAAAAGTTGCGCGGAGGAGTTGTGTTTGTGGACGAAGTACCGAAA GGTCTTACCGGAAAACTCGACGCAAGAAAAATCAGAGAGATCCTCATAAAGGCCAAGAAG GGCGGAAAGTCCAAATTGTAG