Table 1. List of specific primers for the amplification of the reassembled library.

All library:	N-$_{for}$	$^{5'}$ATAGATTTCAAGGAGACAGTCCAT<u>ATG</u>$^{3'}$
	N-$_{rev}$	$^{5'}$GCTAGTTATGCATGGTAGCACTAGT<u>TCA</u>$^{3'}$
GP library:	N-$_{forGART}$	$^{5'}$ATAGATTTCAAGGAGACAGTCCAT<u>ATG</u>*GCC*$^{3'}$
	N-$_{revPurN}$	$^{5'}$GCGACTAGT<u>TCA</u>*CTCGTCGGCAGCGTAGCCC*$^{3'}$
PG library:	N-$_{forPurN}$	$^{5'}$ATAGATTTCAAGGAGACAGTCCAT<u>ATG</u>*AAG*$^{3'}$
	N-$_{revGART}$	$^{5'}$GCTTACTAACTAGT<u>TCA</u>*TTCCTCTTTAACCC*$^{3'}$
GG library:	N-$_{forGART}$	$^{5'}$ATAGATTTCAAGGAGACAGTCCAT<u>ATG</u>*GCC*$^{3'}$
	N-$_{revGART}$	$^{5'}$GCTTACTAACTAGT<u>TCA</u>*TTCCTCTTTAACCC*$^{3'}$

The <u>underlined</u> sequences are Start/Stop codons; gene sequences specific to *purN* or *hGART* are shown in *italics*.