

Supplemental Table 1: DNA oligos used in this study

Oligo Name	Oligo Sequence (5' to 3')
oWaterfoul1_F	atgcggaggaatcacttccatATGGAGCAAGCCATCAACG
oWaterfoul1_R	tgcaggatccgactcgagtgctgacTACGCGTCACCGATGATG
oWaterfoul2_F	atgcggaggaatcacttccatATGATCGGCATTGTCTCGCGTC
oWaterfoul2_R	tgcaggatccgactcgagtgctgacTCAAAGCTCTACCCCGCGC
oWaterfoul3_F	atgcggaggaatcacttccatATGACACCGACTGTCTGGCCG
oWaterfoul3_R	tgcaggatccgactcgagtgctgacTTACACGCGCGGCGGCCAG
oWaterfoul5_F	atgcggaggaatcacttccatATGGCTGCGAAGACAGAAGAC
oWaterfoul5_R	tgcaggatccgactcgagtgctgacTCAGACATCCTCGCCGTCTGAAC
oWaterfoul6_F	atgcggaggaatcacttccatATGTCTAACCCGCGGCTGTCT
oWaterfoul6_R	tgcaggatccgactcgagtgctgacTCATGCGAACATCGCGCC
oWaterfoul7_F	atgcggaggaatcacttccatATGATTCCGCTGTTCATCGAG
oWaterfoul7_R	tgcaggatccgactcgagtgctgacTCACTCAGCCGTACTAGCG
oWaterfoul8_F	atgcggaggaatcacttccatATGCCGGAATTCAGGGGAC
oWaterfoul8_R	tgcaggatccgactcgagtgctgacTCACTGCAGATAATCCTCAGTC
oWaterfoul9_F	atgcggaggaatcacttccatATGACCGACATTGACGCGGTG
oWaterfoul9_R	tgcaggatccgactcgagtgctgacTACTCGGTGTCTCCGCG
oWaterfoul10_F	atgcggaggaatcacttccatATGCCCGATGACGTGACCG
oWaterfoul10_R	tgcaggatccgactcgagtgctgacTCAGCCGTTGCCGCGCAGTTC
oWaterfoul11_F	atgcggaggaatcacttccatATGGCCGACATCACGCGC
oWaterfoul11_R	tgcaggatccgactcgagtgctgacTCACTCGCCGTCTCTTCGG
oWaterfoul12_F	atgcggaggaatcacttccatATGCTGGCGACACTGGAC
oWaterfoul12_R	tgcaggatccgactcgagtgctgacTCAGTACCGCTCGCTGCC
oWaterfoul13_F	atgcggaggaatcacttccatATGTTCCCGACGCCGCAC
oWaterfoul13_R	tgcaggatccgactcgagtgctgacTCACTGAACGGGAATTCAGC
oWaterfoul14_F	atgcggaggaatcacttccatATGGGCCGGCTGGAATTC
oWaterfoul14_R	tgcaggatccgactcgagtgctgacTCACGTCTGCGGCCCGTG
oWaterfoul15_F	atgcggaggaatcacttccatATGACGGTGCTCGTGCCG
oWaterfoul15_R	tgcaggatccgactcgagtgctgacTCATCGGCGTGCGGTTTCAG
oWaterfoul16_F	atgcggaggaatcacttccatATGACTGCTCCCGTAGAGCC
oWaterfoul16_R	tgcaggatccgactcgagtgctgacTCAGACGGCGATGACGCCG
oWaterfoul17_F	atgcggaggaatcacttccatATGCCCAAGACCAAGAACGAAG
oWaterfoul17_R	tgcaggatccgactcgagtgctgacTCACCTGCCGCGCCGCCGCGCAG
oWaterfoul18_F	atgcggaggaatcacttccatATGCCCAAGACCAAGAACG
oWaterfoul18_R	tgcaggatccgactcgagtgctgacTCACTTGTCTTGCCTTCCAAC
oWaterfoul19_F	atgcggaggaatcacttccatATGGCTGAAGCGAAGTATTACC
oWaterfoul19_R	tgcaggatccgactcgagtgctgacTCATCGCAGATGTGTTGTTCCG

oWaterfoul20_F	atgcggaggaatcacttccatATGTCTGGGCTTCACGATGATTG
oWaterfoul20_R	tgcaggatccgactcgagtgtcgacTCACGCCACGCCATCTCG
oWaterfoul21_F	atgcggaggaatcacttccatATGATTTTGACTGTTCCCAACC
oWaterfoul21_R	tgcaggatccgactcgagtgtcgacTCAGAACAGGTCTCCTGATCCG
oWaterfoul22_F	atgcggaggaatcacttccatATGGAAGTGCAGCACATGC
oWaterfoul22_R	tgcaggatccgactcgagtgtcgacTCATTCGGTGGACTCCTCG
oWaterfoul23_F	atgcggaggaatcacttccatATGACGAAGATCGCAACGAC
oWaterfoul23_R	tgcaggatccgactcgagtgtcgacTCAGAGCCCCTGCGGAAC
oWaterfoul24_F	atgcggaggaatcacttccatATGGGCGCCTCGAAGCAAT
oWaterfoul24_R	tgcaggatccgactcgagtgtcgacTCATACGCTCTTGGCATGCG
oWaterfoul25_F	atgcggaggaatcacttccatATGCCAAGAGCGTATGACC
oWaterfoul25_R	tgcaggatccgactcgagtgtcgacTCACAGGTCCATCATTTCAAAGTTG
oWaterfoul26_F	atgcggaggaatcacttccatATGCTGGAAATCAGAAAGCAACTC
oWaterfoul26_R	tgcaggatccgactcgagtgtcgacTCAAGAGACCACGCCACCG
oWaterfoul27_F	atgcggaggaatcacttccatATGGCGTGGTCTCTTGACC
oWaterfoul27_R	tgcaggatccgactcgagtgtcgacTTACTGGTATGCGACGCACCA
oWaterfoul28_F	atgcggaggaatcacttccatATGTCGGAATATCAAGCCGCG
oWaterfoul28_R	tgcaggatccgactcgagtgtcgacCTACTCGCCGCGTACTTGAA
oWaterfoul29_F	atgcggaggaatcacttccatATGGACGTGACACGCGG
oWaterfoul29_R	tgcaggatccgactcgagtgtcgacTCACGCAGTCACACCCTTG
oWaterfoul30_F	atgcggaggaatcacttccatATGAGCAAGCCAATGTTGTTGACC
oWaterfoul30_R	tgcaggatccgactcgagtgtcgacTCATGCCGCCATCGCCCCG
oWaterfoul31_F	atgcggaggaatcacttccatATGACCTCGGGCGCTGATAG
oWaterfoul31_R	tgcaggatccgactcgagtgtcgacTCACGCGCAACCTGCC
oWaterfoul32_F	atgcggaggaatcacttccatATGACTGGCAGTGCGGTG
oWaterfoul32_R	tgcaggatccgactcgagtgtcgacTCAGCCAGATTCACGGGC
oWaterfoul33_F	atgcggaggaatcacttccatATGAATCTGGCTGAACATCTCGG
oWaterfoul33_R	tgcaggatccgactcgagtgtcgacTCAGACAGCGACGACACGC
oWaterfoul34_F	atgcggaggaatcacttccatATGTCGTCGCTGTCTGAGC
oWaterfoul34_R	tgcaggatccgactcgagtgtcgacCTACACGATCCCCATGCGC
oWaterfoul35_F	atgcggaggaatcacttccatATGCGTGGCGAACATGCAATG
oWaterfoul35_R	tgcaggatccgactcgagtgtcgacTCACAGGTGACCGTCCGC
oWaterfoul36_F	atgcggaggaatcacttccatATGAGGCTGTACCCGAAGC
oWaterfoul36_R	tgcaggatccgactcgagtgtcgacTCAGCCGCGCGCATGGTC
oWaterfoul37_F	atgcggaggaatcacttccatATGCGCGCGGCTGATCG
oWaterfoul37_R	tgcaggatccgactcgagtgtcgacTCAGCGACGAACGACGTCAG
oWaterfoul38_F	atgcggaggaatcacttccatATGACTACGGGAACGATCGACT
oWaterfoul38_R	tgcaggatccgactcgagtgtcgacTCACCGCGATCTTTTTTGCC
oWaterfoul39_F	atgcggaggaatcacttccatATGCGCGCCATCATTTACAACC

oWaterfoul39_R	tgcaggatccgactcgagtgctgcacTCACGCATCAGCGTGCGGG
oWaterfoul40_F	atgcggaggaatcacttccatATGACAGGGCAGCGGCTC
oWaterfoul40_R	tgcaggatccgactcgagtgctgcacCTACGCGGGGGTTGCTT
oWaterfoul41_F	atgcggaggaatcacttccatATGACGCTTGACCTCATCGC
oWaterfoul41_R	tgcaggatccgactcgagtgctgcacTTAAAGCGGGCGCGGGCTCGT
oWaterfoul42_F	atgcggaggaatcacttccatATGACCATGAGTAGCGACTAC
oWaterfoul42_R	tgcaggatccgactcgagtgctgcacTCACAGAGGATCTGCGTCACC
oWaterfoul43_F	atgcggaggaatcacttccatATGTCCGCTTTTCCGGTCATC
oWaterfoul43_R	tgcaggatccgactcgagtgctgcacTCAACCTGCCGTTTCGTC
oWaterfoul44_F	atgcggaggaatcacttccatATGTTGGGACAACAACACCGG
oWaterfoul44_R	tgcaggatccgactcgagtgctgcacTTATCCGAGCGGTCCATGTC
oWaterfoul45_F	atgcggaggaatcacttccatATGTCGAAACCAAGTATAAACACGA
oWaterfoul45_R	tgcaggatccgactcgagtgctgcacTCACAGCAGACCTACGGACA
oWaterfoul46_F	atgcggaggaatcacttccatATGAGCACCATCACCGAAATTCG
oWaterfoul46_R	tgcaggatccgactcgagtgctgcacTCAGCCGACCGCTGCGTGTT
oWaterfoul47_F	atgcggaggaatcacttccatATGACCAGCCACGCAATGC
oWaterfoul47_R	tgcaggatccgactcgagtgctgcacCTACGGTGCGCCAGCGTC
oWaterfoul48_F	atgcggaggaatcacttccatATGTTGACCATCAACACCGCAGAC
oWaterfoul48_R	tgcaggatccgactcgagtgctgcacCTACTTGCCGTCGTCGCC
oWaterfoul49_F	atgcggaggaatcacttccatATGAAGAAGCGCATTGCAATCGT
oWaterfoul49_R	tgcaggatccgactcgagtgctgcacTCAGTCCCGGGGTGAC
oWaterfoul50_F	atgcggaggaatcacttccatATGAGCAGCGGTGAACGC
oWaterfoul50_R	tgcaggatccgactcgagtgctgcacTCATTGGTTCACTTCTCGTTGTAG
oWaterfoul51_F	atgcggaggaatcacttccatATGACCGACATCGCGACAGT
oWaterfoul51_R	tgcaggatccgactcgagtgctgcacTCACTCTGCAAGCTCGATCC
oWaterfoul52_F	atgcggaggaatcacttccatATGACTGAGTTTGTGCTCGCC
oWaterfoul52_R	tgcaggatccgactcgagtgctgcacTTACTTGAACGGCCGACGAT
oWaterfoul53_F	atgcggaggaatcacttccatATGAGGGTCAACGGCGC
oWaterfoul53_R	tgcaggatccgactcgagtgctgcacTACTCGGTGCTCATGTGGTGC
oWaterfoul54_F	atgcggaggaatcacttccatATGAAGCGAAACAAAGAGAAGC
oWaterfoul54_R	tgcaggatccgactcgagtgctgcacTCATCTCGCCACAACCTCG
oWaterfoul55_F	atgcggaggaatcacttccatATGAGCCAGGAATTCGTGATGAT
oWaterfoul55_R	tgcaggatccgactcgagtgctgcacTCACTGCTCCGCCCCAC
oWaterfoul56_F	atgcggaggaatcacttccatATGAAAGCCACCTTGCGGC
oWaterfoul56_R	tgcaggatccgactcgagtgctgcacTCATGAAAGCATCCCCTTAATCCA
oWaterfoul57_F	atgcggaggaatcacttccatATGACGAACGGGACGGCC
oWaterfoul57_R	tgcaggatccgactcgagtgctgcacTCACGACACACCGCCACG
oWaterfoul58_F	atgcggaggaatcacttccatATGACGGCCCCGAACGTG
oWaterfoul58_R	tgcaggatccgactcgagtgctgcacTCACGACTCCACCTCACGGT

oWaterfoul59_F	atgcggaggaatcacttccatATGAGCGCGGCAACGTTTC
oWaterfoul59_R	tgcaggatccgactcgagtgctgacTTACGGGCAGTCGCCGGC
oWaterfoul60_F	atgcggaggaatcacttccatATGGCCGATCACTACTGCAC
oWaterfoul60_R	tgcaggatccgactcgagtgctgacTTATGTGCCGTCGTAATAGTCGGG
oWaterfoul61_F	atgcggaggaatcacttccatATGACGAACGCATCGAAGCAATTC
oWaterfoul61_R	tgcaggatccgactcgagtgctgacTTACTGCTTGAGCATCCCGAGTTC
oWaterfoul62_F	atgcggaggaatcacttccatATGATCACCATTTACACAACCGGC
oWaterfoul62_R	tgcaggatccgactcgagtgctgacTCACGGGTTGATCCCCCGC
oWaterfoul63_F	atgcggaggaatcacttccatATGACCGTGCGCAGAGGAA
oWaterfoul63_R	tgcaggatccgactcgagtgctgacTCATTTAGGTGACCCCAGTTCG
oWaterfoul64_F	atgcggaggaatcacttccatATGAGCGACCCGCGCAACAT
oWaterfoul64_R	tgcaggatccgactcgagtgctgacTCAGAGTGTGTGCGAACCTG
oWaterfoul65_F	atgcggaggaatcacttccatATGACCCTGACCATCCCTG
oWaterfoul65_R	tgcaggatccgactcgagtgctgacTCACTCGTCTTCGCTTTCTG
oWaterfoul66_F	atgcggaggaatcacttccatATGACCGGCCAGGAACGG
oWaterfoul66_R	tgcaggatccgactcgagtgctgacTCAGCTCGCCACTCGAC
oWaterfoul67_F	atgcggaggaatcacttccatATGGGCCGACCATGCGA
oWaterfoul67_R	tgcaggatccgactcgagtgctgacTCAGTGAGTCACCTTCTCGCC
oWaterfoul68_F	atgcggaggaatcacttccatATGCCCCGCACATGCGG
oWaterfoul68_R	tgcaggatccgactcgagtgctgacTCAACACGCTGCCGGCG
oWaterfoul69_F	atgcggaggaatcacttccatATGCAGATTTGCGAACTGTTAC
oWaterfoul69_R	tgcaggatccgactcgagtgctgacTTACGCGTGGACGTTGCCG
oWaterfoul70_F	atgcggaggaatcacttccatATGCTGAAGAACATCCTGAAGGC
oWaterfoul70_R	tgcaggatccgactcgagtgctgacTCATGCCGGCTGCGCTTC
oWaterfoul71_F	atgcggaggaatcacttccatATGACCGCACACCCGATG
oWaterfoul71_R	tgcaggatccgactcgagtgctgacTCATGCGTTCACTTCTCACG
oWaterfoul72_F	atgcggaggaatcacttccatATGACTGTCGGCGAACTAATCG
oWaterfoul72_R	tgcaggatccgactcgagtgctgacTCACAGTTCCCTCACATCCGAC
oWaterfoul73_F	atgcggaggaatcacttccatATGACCGCCCCGAACTATC
oWaterfoul73_R	tgcaggatccgactcgagtgctgacTCATTGCGCGCACACAC
oWaterfoul74_F	atgcggaggaatcacttccatATGACCGCGCCAAGCGAG
oWaterfoul74_R	tgcaggatccgactcgagtgctgacCTATCTGTGTCGTGCACGTTGT
oWaterfoul75_F	atgcggaggaatcacttccatATGAGCGTCGCTGAGCAGT
oWaterfoul75_R	tgcaggatccgactcgagtgctgacTCACCACAGGGCGCCTTG
oWaterfoul76_F	atgcggaggaatcacttccatATGCTGAGCGTTGAACCCG
oWaterfoul76_R	tgcaggatccgactcgagtgctgacTCACTTGGGTTCTGATCGGTTCG
oWaterfoul77_F	atgcggaggaatcacttccatATGGGGAAACACAGCGCG
oWaterfoul77_R	tgcaggatccgactcgagtgctgacTTACCCGTTGTCGGCCTG
oWaterfoul78_F	atgcggaggaatcacttccatATGCGCAAATACCGAGTCTGTT

oWaterfoul78_R	tgcaggatccgactcgagtgctgacTCACTGCCGGGCCGCTT
oWaterfoul79_F	atgcggaggaatcacttccatATGACCTACATCGAAGTGCGC
oWaterfoul79_R	tgcaggatccgactcgagtgctgacTCACCAGCTGCCGTCTC
oWaterfoul80_F	atgcggaggaatcacttccatATGAGCGCCACGCAAGGC
oWaterfoul80_R	tgcaggatccgactcgagtgctgacTTACGGTTGCAGTCCTTGAA
oWaterfoul81_F	atgcggaggaatcacttccatATGGGCAAGCACAGCATGG
oWaterfoul81_R	tgcaggatccgactcgagtgctgacTCAGCCATGCCGCAACAC
oWaterfoul82_F	atgcggaggaatcacttccatATGGCTGACAAGAACGACGAA
oWaterfoul82_R	tgcaggatccgactcgagtgctgacTCACGCCATTGCGTCAC
oWaterfoul83_F	atgcggaggaatcacttccatATGGGCGTGACACGCGCAG
oWaterfoul83_R	tgcaggatccgactcgagtgctgacTCATTTGGTTTTCTCAATCCCAT
oWaterfoul84_F	atgcggaggaatcacttccatATGACCGACACGCAACATGC
oWaterfoul84_R	tgcaggatccgactcgagtgctgacTCAGGCAGTGCCGAACAGTC
oWaterfoul85_F	atgcggaggaatcacttccatATGAAGAACAACACCGCTCAGC
oWaterfoul85_R	tgcaggatccgactcgagtgctgacTTAGATCCGGGCGGCGCG
oWaterfoul86_F	atgcggaggaatcacttccatATGGCGAAATGGACACACGA
oWaterfoul86_R	tgcaggatccgactcgagtgctgacCTACTCTCTTCTGGTAGATCC
oWaterfoul87_F	atgcggaggaatcacttccatATGATGAGTAAGCAAACCCGCG
oWaterfoul87_R	tgcaggatccgactcgagtgctgacTTACCCGGCGCTTTGCATG
oWaterfoul88_F	atgcggaggaatcacttccatATGACGAACTGGACCAAGACC
oWaterfoul88_R	tgcaggatccgactcgagtgctgacTTACTTCTTCGGCAGCTTGTGC
oWaterfoul89_F	atgcggaggaatcacttccatATGTTCAAGATGATCGTTCAACTTC
oWaterfoul89_R	tgcaggatccgactcgagtgctgacTCAGGCGGCCGGCACGC
oWaterfoul90_F	atgcggaggaatcacttccatATGCCGCTCATCATCTCCC
oWaterfoul90_R	tgcaggatccgactcgagtgctgacTCAGATGTGGTTGCGGCC
oWaterfoul91_F	atgcggaggaatcacttccatATGACCACGATCGACACTCGC
oWaterfoul91_R	tgcaggatccgactcgagtgctgacTCAGGCGCCTAGCGCTGG
oWaterfoul92_F	atgcggaggaatcacttccatATGATCGCCACCGCAACC
oWaterfoul92_R	tgcaggatccgactcgagtgctgacTCAGGCCATGATGAATCCGAC
oWaterfoul93_F	atgcggaggaatcacttccatATGAACCGGAACCAAGAGC
oWaterfoul93_R	tgcaggatccgactcgagtgctgacCTACGTATGCGCGGCCGG
oWaterfoul94_F	atgcggaggaatcacttccatATGGCCGGCCACGAACAC
oWaterfoul94_R	tgcaggatccgactcgagtgctgacTCATGGCCTGTATGGCTCG
oWaterfoul95_F	atgcggaggaatcacttccatATGACAGTCACGCGCAGC
oWaterfoul95_R	tgcaggatccgactcgagtgctgacTTACGGCTTCCATTGCGGG
oDH117	atgGAAGTGATTCTCCGCATG
oDH152	catgcggaggaatcacttccatagttagtgaGTCGACACTCGAGTCGGATCCTGCAGGAAGCTTGAT CCGATAACACAGGAACAGATCTatggtctcgaagggcgaggag
oDH153	aagctatcagttaactaaaacg
oDH154	tcgttttagttaactgatagcttttacttgtacagctcgtccatgc

pExTra_F	GTCGACACTCGAGTCGGATCCTG
pExTra_R	ATGGAAGTGATTCCTCCGCATGC
pExTra_seqF	GTACCCGTGTGTACGACCAGC
pExTra_uniR	CCCTTCGAGACCATAGATCTGTTCC
oWaterfoul8_int ernalseq1	GCAAGCCAGGCCGCGCCACGG
oWaterfoul8_int ernalseq2	GACGCGGTGGCTGATTGG
oWaterfoul19_i nternalseq1	CAGACGTCGGGCAAGGCGTTC
oWaterfoul19_i nternalseq2	TTCGTCGCTGACAACGCATC
oWaterfoul19_i nternalseq3	TGGCGTAGCCCGACAGTG
oWaterfoul19_i nternalseq4	TCTTCACGGAGTTCAGTGAGCC
oWaterfoul21_i nternalseq	CTGACGGTGCTCATGGC
oWaterfoul25_i nternalseq1	ACACGATCGTGACGTCTGAACG
oWaterfoul25_i nternalseq2	ACAGCGGCGGTGACTGCTCG
oWaterfoul29_i nternalseq1	CATCGTGTATTTCTGTGG
oWaterfoul65_i nternalseq1	ACGCTGACGCAGCCACCGAC
oWaterfoul65_i nternalseq2	ACGAACCGTTGATGCCGG
oWaterfoul66_i nternalseq1	CAAGTTCGTCACTGCCGCG
oFruitloop52_F	atgCGgaggaatcacttccatATGCTAACCCAGATTCTAAACCCG
oFruitiitloop52_R	tgcaggatccgactcgagtgtcgacTCATGCTGCGTCTCCCTCG