

Application	Primers
Validation of inversion at 0.9 Mb in UTI89	CCCTCCTGACCCGGATCAATG GCCCAGCCGTAGCTGTGAGT GCGAAGGTGGGCGTAATGAG
Validation of duplication at 1.2 Mb in UTI89	ATATCCGCACCCAGCAGCAT TCGCGGAGAGAAAACGGAAG
Validation of deletion at 1.2 Mb in UTI89	GCCCGGTAAAGAGGCCATTC TACCAACTGGCGCGTGAAGA
Validation of duplication at 1.6 Mb in UTI89	TGGAACTGGCTGGGGAATGT TTCGAACCGGCTCCATTGAT
Validation of inversion at 2.1 Mb in UTI89	GCAACGTGCGCTTTATGACG CTGGATACCCAGCCACAGG AAGGTTGGGGGTAGGGCAGA
Validation of inversion at 2.9 Mb in UTI89	CGTTGCATCAATGCTCCAC CTGTGCTTCTGCCGCTCTA CGTCTGTTGTCGGCACTGCT
Validation of duplication at 5.0 Mb in UTI89	ACGTTCCCTTTCCAACGACTG GCGAAAAGAAGAACCTTTGC
Validation of deletion at 5.0 Mb in UTI89	ATCACTGGAAGGCGCTCAGG GCAGCCGATTTTCAGCTCGT
Validation of duplication at 0.9 Mb in CFT073	AACAAAACCTCCGGCATTGAG ACCCATGAGCAGATTGTTGA
Validation of deletion at 0.9 Mb in CFT073	ACCAAAAACCTAGCCCCAAAGA TGCGCCTTCTTTGTTATTGG
Validation of duplication at 1.38 Mb in CFT073	CCTCAAATTGAAGAGGTCCG AATCAGGAGGCGGATTAGTG
Validation of deletion at 1.38 Mb in CFT073	TTCTCCGAGATGATCGTAGC GAAGTGCGGGAAGATGATGA
RT-qPCR: 16S	ATGACCAGCCACACTGGAAC AGTATCAGATGCAGTTCCAG
RT-qPCR: <i>upaE</i>	TTCTGCGCGTTTCTCAATCC GGAAGCCGTATTGCGGTCAA
RT-qPCR: <i>ipuR</i>	TCTACGACGATGCGTCCACA GGCTAAAAAGCCAGCCTGTCA
RT-qPCR: <i>ipuA</i>	TTTGCCTCACCTATCCCCCA CCCGTGGTTATTTGTTTCCCGA
RT-qPCR: <i>ipuB</i>	AGGGTAAGCGAGCTTATTGCAC GCATACCCACAACCATGCCT
RT-qPCR: <i>dsdC</i>	TAGAGGGCCGGGAATACAGC

	AGGCATCAGTCCTTCGCTCT
RT-qPCR: <i>dsdX</i>	GCATGGGGCCACTGGATATG CAGCGGAATGGCCAGCTTTA
Detection of <i>ipuS</i> inversion from CFT073 genome	CACCTCCAGCCATTGATAAA TCGTAATATCAGGCATACGG
Detection of <i>ipuS</i> inversion from pSLC-372 and pSLC-373 plasmids	TGTAAAACGACGGCCAGT CAGGAAACAGCTATGAC
Creation of CFT073 Δ <i>ipuA::kan</i>	ATTCTTTCATCATAGTTGACATGGCTATTTTCATATAAATAGAGGTGATTTTGTGTAGGCTGGAGCTGCTTC ATTGAATTAGAAGCAGTATAAATTACCGTATGCCTGATATTACGATGCCCTATGAATATCCTCCTTAG
Validation of CFT073 Δ <i>ipuA::kan</i>	CCGTATGCCTGATATTACGA TCATCATAGTTGACATGGCT
Creation of CFT073 Δ <i>ipuB::kan</i>	CTGGTATTTATAGTTTCAATTTTTAACTTAATTAATATAACCGATAATTTTGTGTAGGCTGGAGCTGCTTC AAAAATGAGGGGCTAAAAGCCTCAATGAATTGAGGCCTTTAGAACAGGGGTATGAATATCCTCCTTAG
Validation of CFT073 Δ <i>ipuB::kan</i>	CAATGAATTGAGGCCTTTAG CAAGCAATAATACCAGGCTC
Creation of CFT073 Δ <i>ipuAB::kan</i>	AAAAATGAGGGGCTAAAAGCCTCAATGAATTGAGGCCTTTAGAACAGGGGTGTGTAGGCTGGAGCTGCTTC ATTGAATTAGAAGCAGTATAAATTACCGTATGCCTGATATTACGATGCCCTATGAATATCCTCCTTAG
Validation of CFT073 Δ <i>ipuAB::kan</i>	CAATGAATTGAGGCCTTTAG CCGTATGCCTGATATTACGA