SUPPLEMENTARY DATA 1. Sequence of plasmids constructed in this study.

pAEQ(I)

In red the half sequence of the PmeI site after the cloning

PmeI

CAGACATCACCGTTTATGACCTCCAAGCAGTACTCCGTCAAGCTTACCTCCGACTTCGACAA
CCCCCGCTGGATCGGCCGCCACAAGCACATGTTCAACTTCCTCGACGTCAACCACAACGGCA
AGATTTCCCTCGACGAGATGGTCTACAAGGCCTCCGACATCGTCATCAACAACCTCGGCGCT
ACCCCCGAGCAGGCCAAGCGCCACAAGGACGCCGTCGAGGCCTTCTTCGGCGGTGCCGGCAT
GAAGTACGGCGTCGAGACCGACTGGCCCGCCTACATCGAGGGCTGGAAGAAGCTCGCCACCG
ACGAGCTCGAGAAGTACGCCAAGAACGAGCCCACCCTCATCCGCATCTGGGGCGACGCCCTC
TTCGACATCGTCGACAAGGACCAGAACGGTGCCATCACCCTCGACGAGTGGAAGGCCTACAC
CAAGGCCGCCGGCATCATTCAGTCCAGCGAGGACTGCGAAGAGACCTTCCGCGTCTGCGACA
TCGACGAGTCCGGCCAGCTCGATGTCGATGAGATGACCCGCCAGCACCTCGGCTTCTGGTAC
ACCATGGACCCCGCCTGCGAGAAGCTCTACGGCGGTGCCGTCCCCTAAAAACGCCATGTCTA

PmeI

pAEQ(II)

In red the half sequence of the SfiI restriction site

SfiI *ku80*$^{5'}$

TCGAGCTCGGTACGGCCATATAGGCCCATGAAGGCGCATCTGCACGATGCGCGACTCCATCT
CACAAGACGGGACCAGGAAACGACGCCGCAAAAGCAGCATGAGAGCTCTGCGCGGGCGAAGA
GCAGTCTTGTACGAGCTGGAAGTCTGATCGGGGCGCTGGAGGACGGCCTGAAGAATCTTGGG
GATGCCAATGCGGATGCGAGGTCCACTGCGTCTGGGAAGAGGGGTGCTTGGGGGAGCGGAAA
TGGGCTGGGCGACGGGGAGATTCGACGAAGAAAGGACTTGCTGGTTAATGCGAAGAAGGAGA
AGAATGGATTGGAGGATTTGTTAAACGCCATGGCTGCTAAGAGCAGGATTGATAATGCGGTT
GCGTCGATACAAGACAAGGAGGCGTTGGTTGGGTCTGCGAGCCGGAAGCCACCTCGTTCGGG

GAGGGTGCTGGGCAAGGAGACGGAGCGGACTCGCGAGCTAGATAACCAAGGCGTTTTGCAGT

TACAGAAGCGGACGATGGAGGATCAAGATATGAGCATTGAAGAGTTGAGGAAGATTGTACAA

CGCCAGAAGGAACTGGGGATTGCTATCAATGCTGAGTTGGAGATTCAGAATGAGCTTCTGAA

GCTCACGGATGAAGATACGGACAGGTATGTGTGGACCCAGGCTTCGGCTCTAATAACCCATT

CTAACATCTGTCGCCTAAAGGTTAGGGAAGAAGATCGAAATCGGGAACAAGAGGGTTGGCAA

AATATCTTAGCTTGGCATCTCACGGGCACTTCTGCTTCTACACAGCTTATTCATTGTTTCTG

gpdA^{P}

AACCATTTAGAGGAGCGACT**ATCTTTGCCCGGTGTATGAAACCGGAAAGGCCGCTCAGGAGC**

TGGCCAGCGGCGCAGACCGGGAACACAAGCTGGCAGTCGACCCATCCGGTGCTCTGCACTCG

ACCTGCTGAGGTCCCTCAGTCCCTGGTAGGCAGCTTTGCCCCGTCTGTCCGCCCGGTGTGTC

GGCGGGGTTGACAAGGTCGTTGCGTCAGTCCAACATTTGTTGCCATATTTTCCTGCTCTCCC

CACCAGCTGCTCTTTTCTTTTCTCTTTCTTTTCCCATCTTCAGTATATTCATCTTCCCATCC

AAGAACCTTTATTTCCCCTAAGTAAGTACTTTGCTACATCCATACTCCATCCTTCCCATCCC

TTATTCCTTTGAACCTTTCAGTTCGAGCTTTCCCACTTCATCGCAGCTTGACTAACAGCTAC

aeqS

CCCGCTTGAGCAGACATCACCGTTTATGACCTCCAAGCAGTACTCCGTCAAGCTTACCTCCG

ACTTCGACAACCCCCGCTGGATCGGCCGCCACAAGCACATGTTCAACTTCCTCGACGTCAAC

CACAACGGCAAGATTTCCCTCGACGAGATGGTCTACAAGGCCTCCGACATCGTCATCAACAA

CCTCGGCGCTACCCCCGAGCAGGCCAAGCGCCACAAGGACGCCGTCGAGGCCTTCTTCGGCG

GTGCCGGCATGAAGTACGGCGTCGAGACCGACTGGCCCGCCTACATCGAGGGCTGGAAGAAG

CTCGCCACCGACGAGCTCGAGAAGTACGCCAAGAACGAGCCCACCCTCATCCGCATCTGGGG

CGACGCCCTCTTCGACATCGTCGACAAGGACCAGAACGGTGCCATCACCCTCGACGAGTGGA

AGGCCTACACCAAGGCCGCCGGCATCATTCAGTCCAGCGAGGACTGCGAAGAGACCTTCCGC

GTCTGCGACATCGACGAGTCCGGCCAGCTCGATGTCGATGAGATGACCCGCCAGCACCTCGG

ku80$^{3'}$

CTTCTGGTACACCATGGACCCCGCCTGCGAGAAGCTCTACGGCGGTGCCGTCCCCTAAGATC

AAGATGCTCTAGAATAGAAATTGAGTCAGGGCATGAGGGAAGGAAGAGCCAGATAAAGGTAG

CTCATTGATGCATGGACAAACACGACTCTCCAGGCAGACGCGCAATATTTCCCGATTGGGTG

TTAGGCAGAACGCGAAGGCACATGACATCATTAATGGAAGGTGCGTGGACATTGCACGTAGT

AAGTGTACATACTTCGGGTCCAATGAAAAGCCGTTGCACCTGTCATATTCCGCAGGACGGGT

GCGTCGAAATATGTTCCGGCATTCCCTAGCTCTTCATCTTCCAACAACCATCTGATCCCGTC

TTGTCGTCTTATCTGCATCCGAATATCCCAGACCCAGCAGTTGACAGATTATAAAGTGCATC

ATTAATTGCTGGACAGGCAATATGACTGATCCTCGCCCCTACCATCTTCTTAGGTACAGAAT

CCCTGGTTATCAGGATGTGAACATGTCGCTGACTTCGGGCGCAAGCTACGGTACCCTATTGG

GTGTGCAAGTGTCCCAGGTGAACTTCATTCTGCCAGCTAGATATCCACTACGCTGTTAACTC

AAAGGCGCAACAGACATTTATTGGGGGCGTTATTGCTTTCCGAGTGCTCCCTCGTCCTCAGT

TCTCAGCGTTGCAAACTTCGATATTCCCGGTGTACTTCACGCTTCAGTCCGCACTCCCCGTA

GTTATCGCCTTGACTTCCAGCAAAGGTGGCCAGCTCAATGGCATTTCCGGACTTCTCGCTCC

SfiI

TGAAAGTCGATTTGGGACACTCCTGCCTCTCGCAACTGTTGCAGTGTCTGGGGGCCTATATG

GCCGGCATGCAAGCTTG