

**Table S1. Oligonucleotides, Related to STAR Methods: Key Resources Table**

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Oligonucleotides		
ggtgacagcttggtgttatcggtttgaacg	This Study	Mu_L213
ggttcagccataccctaagtgatcccatg	This Study	Mu_R137
cgatcgactacacgcatttcgatcactgcacgccccgggggggggggggggg	This Study	rand_polyG
cgatcgactacacgcatttcgatcactgcacgccccgg	This Study	rand_seq
gatattcgcgaggactgacgacgcttg	This Study	muB_fwd
cacggaaagcctgacgcagataatctctgt	This Study	muB_rev
ccgtattctcggcttaacctccatgaac	This Study	hipA_fwd
cttgatgaacaaccagcggtaggcg	This Study	hipA_rev
ccgggaggacattggattatcgggatctg	This Study	Mu_L31
tgccccgtacatcgttagaactactctaccatccacat	This Study	y_link
atgtggatggtacgagtagtttaacgatgtacggggaca	This Study	y_link_rev
cctggtgcaaaccgcactgcgtcagcaggagaagatcgaagtgtaggctgga gctgcttc	This Study	mukBF
cgctcaactggtgagactgtttgcgctgccagccaaacatgggaattagccat ggtcc	This Study	mukBR
ccagcgctgatgatgcccgataagggcggcgtatgtctgatgtttacgcc	This Study	Mu_parS_f
ggaaaatcaacgtatcagtcggcgccctcggtgaattaatgggtgtggatc	This Study	Mu_parS_r
gcagcatctgagaatacaatctttcggtaaaggcggaat	This Study	pKD4_pheLf
cagatcttggaatgcgctctattttgaaaaacc	This Study	pKD4_pheLr
gtggctggtgcgcggtggaaggcagcacaaggcggaatttgccaataact tgctcagt	This Study	pheL_Bin10f
cagaagaagatagcgaagaggtgccccctgctgaattaatgggtgtggatc	This Study	pheL_Bin10r

aaaagaaacgccataattctggaagttataaggcggaattgccaataactg ctcagt	This Study	pheL_Bin30f
caccatcaatttatgactggattaagaaaggctgaattaatgggtgtggatc	This Study	pheL_Bin30r