

Table S1. Oligonucleotides used in this study

name	sequence (5' to 3')	use
ku70A-BamHI_1	gaagacaggatccAGATAAGAACAATTCAATATGCGTA	PCR feeding insert KU70
ku70A-KpnI_1	gaagacaggatccTTCAAAGCTCTTTTCTTAAATTCCT	PCR feeding insert KU70
ku80A-BamHI_1	gaagacaggatccGGTGCCTCAATGTATGAACCATACA	PCR feeding insert KU80a-1
ku80A-KpnI_1	gaagacaggatccGGTAATTCTGTCAGATTTCTATAAAAAC	PCR feeding insert KU80a-1
OMB223	ggactagTACGAAAGTTAAGAGCAATCAATCAATTC	PCR feeding insert KU80a-2
OMB224	ggactagtCAATAATTAATAATGACCTAACACATTAATAC	PCR feeding insert KU80a-2
OMB219	ggactagtGGTGCCTCAATGTATGAACCATACAAGTAG	PCR feeding insert KU80b-1
OMB220	ggactagtGTAATTCTGTCAGATTTCTATAAAAACCTC	PCR feeding insert KU80b-1
OMB221	ggactagTACTAACATTAAGAACAATCAATAAATTC	PCR feeding insert KU80b-2
OMB222	ggactagtAAGCAATTAATAATGATCTATTACATTAATAC	PCR feeding insert KU80b-2
ku80C-BamHI_1	gaagacaggatccTAATTATTAGGCTTTGTAGATCGATC	PCR feeding insert KU80c-1
ku80C-KpnI_1bis	gaagacaggatccTGGGGTAATAACATAATCAATTTAGGT	PCR feeding inserts KU80c-1 & KU80c-2
OMB225	ggactagtATAATAGAAATGCTTACAGCTTCATATCAATG	PCR feeding insert KU80c-2
OMB063	agacaagtagggaatccactcttagtaatc	PCR around IES 51A1835
OMB064	taatgtattgataaggcttgctctacagcc	PCR around IES 51A1835
OMB068	acaccaagcgaaacatgcacagtcg	PCR around IES 51A2591
OMB256	GATGTAGCATAACATTTATCAACAATCCAT	PCR around IES 51A2591
OMB808	CAAGTTGCTCATCACCTATTTAATCAAATG	PCR around IES 51A2591 (for alternative junctions)
OMB809	CATAATCCAGCTGTAGATCTAAAGC	PCR around IES 51A2591 (for alternative junctions)
OMB069	ccagttattgaaactgcaacttactgcagtg	PCR around IES 51A4404
OMB097	TAAATGTTGAGCTTACAACGCAGCT	PCR around IES 51A4404
OMB365	AGATTTATATCTTTTTTCTCAAATTCAGC	IES circle 51A2591
OMB184	CAATATTATACATCTAGAACTTATAGTTAG	IES circle 51A2591
OMB181	TTTTGAAATATTTTCAAGTTTTTGGACTAC	IES circle 51G4404
OMB182	ACAATATATATTTACTTGATAATTTTTCC	IES circle 51G4404
OMB062	gtagtacaagatTTTTcgacacaagttgag	LMPCR/TdT 51A1835 MAC end
OMB065	ggttgcgtaacacttctcttaaattgag	LMPCR/TdT 51A1835 MAC end
OMB066	gaagtctaagtgataacctgtgtagggac	LMPCR/TdT 51A1835 MAC end
OMB145	AATTGTAATTTGACTTCAGCAAATAAAAAA	LMPCR/TdT 51A2591 MAC end
OMB212	ATGTGTTTGGACTGGATTGGCATGTAGAAG	LMPCR/TdT 51A2591 MAC end
OMB215	AGTTCCTTTGAAAGATGTGCAAGCTCCAGA	LMPCR/TdT 51A2591 MAC end
OMB069	ccagttattgaaactgcaacttactgcagtg	LMPCR/TdT 51A4404 MAC end
OMB070	tggaatagtgctcatcaccagctgcttg	LMPCR/TdT 51A4404 MAC end
OMB226	ACCAGCTGCTTGCATTCAAATATCCACAGT	LMPCR/TdT 51A4404 MAC end
OMB113	TGCATATGTTACTGGAAGCTGGATTGGTAGC	LMPCR 51G4404 MAC end
OMB114	ACTGTTGCTACACATTGTGCATATGTTACT	LMPCR 51G4404 MAC end
OMB213	GCTGTAAGATTAACATTGAGCATGATCAAG	LMPCR 51G4404 MAC end
OMB300	AAAGGCTAATTTGGATGAATGAGCATTAAATC	LMPCR 51G4404 IES end
OMB301	GGACTACTTTTGAATTTGAATTAACAAAGGC	LMPCR 51G4404 IES end
OMB056	gaattcggatccgctcggaccgtggc	LMPCR
OMB032	gctcggaccgtggctagcattagtgagtgggggggggggggg	TdT tailing
OMB176	ACCCGTGACTGCCATGGTAGTCCAATACA	17S probe
OMB235	GTCTAGTGTGGACATGGTTGTAGCTATTGA	KU80a probe
OMB234	TCTGGTTCTCCAGATTCTTTGGAAGTGCT	KU80a probe
OMB233	GTTATTAATGCACTAGTTGATTAATCAGTG	KU80b probe
OMB232	TTTGTAAATTAGTCCACCATTTACTAATGTTTAT	KU80b probe
OMB231	GTCATTATTTAATTTGTGGATCAATCTCTC	KU80c probe
OMB230	GTTATAATTGATCAACTAATTTTATGACTAA	KU80c probe
OMB237	TATGGCAAACCCCTTAGATAGGAGATACAAC	KU70 probe
OMB236	TTTCAATATCATTATTGAATCAATGCATC	KU70 probe