Figure S5	ICEVchInd5 [NheI] (in silico)
A	2010EL-1786 [NheI] (in silico)
$\overline{\Lambda}$	
	VC6 Nepal-2 [NheI]
	VC18 Nepal-3 [NheI]
	VC14 Nepal-4 [NheI]
П	VC26 Nepal-4 [NheI]
B 1 500	1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500 5,000 5,500 6,000 6,500 7,000 7,500 8,000 8,500 9,000 9,500
10,000	10,500 11,000 11,500 12,000 12,500 13,000 13,500 14,000 14,500 15,000 15,500 16,000 16,500 17,000 17,500 18,000 18,500 19,000 19,500
transposa	transcriptional regulator LysR family CDS conserved hypothetical protein CDS transcriptional re
20,000	20,500 21,000 21,500 22,500 23,000 23,500 24,000 24,500 25,000 25,500 26,000 26,500 27,000 27,500 28,000 28,500 29,000
	Palindrome Palindrome InDel Nepal-4 transposase CDS MutL protein erro DNA poly DNA poly DNA polymerase III subunit plas conserved hypothetical pro conserved hypothetical conserved hypothetical conserved hypothetical conserved hypothetical conserved hypothetical prot
29,500 30,	,000 30,500 31,000 31,500 32,000 32,500 33,000 33,500 34,000 34,500 35,000 35,500 36,000 36,500 37,500 37,500 38,000 38,500 39,000
	conserved hypothetical protein CDS PglZ domain protein CDS ATP-dependent Lon protease CDS
39,500	40,000 40,500 41,000 41,500 42,000 42,500 43,000 43,500 44,000 44,500 45,000 45,500 46,000 46,500 47,000 47,500 48,000 48,500
ATP-dependent	InDel Nepal-4  Lon pr Conserved hypothetical Conserved hypothetical Conjugal transfer pilus assembly protein Tral CDS conjugal transfer pilus assembly protein Tral CDS plasmid-relate conserved hypo pla conj pla conj conjugal transfer conjugal transfer pilus assembly protein Tral CDS plasmid-related conjugal transfer
49,000 49,500	
conjugal transfer pil	lus assembly protein TraK CDS conjugal transfer pilus assembly protein TraB CDS conjugal transfer pilus assembly protein TraA CDS thiol:disulfide interchange protein DsbC CDS conserved hypothetical protein CDS conjugal transfer pilus assembly protein TraV CDS conjugal transfer pilus assembly pro
59,000	59,500 60,000 60,500 61,000 61,500 62,000 62,500 63,000 63,500 64,000 64,500 65,000 65,500 66,000 66,500 67,000 67,500 68,000 68,500
conjugal transfer pil	lus assembly protein TraW CDS IstB ATP binding domain-containing protein CDS Conjugal transfer mating pair stabilization protein TraN CDS Appothetical protein CDS Appothet
69,000	69,500 70,000 70,500 71,000 71,500 72,000 72,500 73,000 73,500 74,000 74,500 75,000 75,500 76,000 76,500 77,000 77,500 78,000
	deoxyribonuclease       plasmid-related       conser       single-str       phage recombination pr       h.       endonuclease-like phage-relat       cobaltochelatase CobS CDS       cobalamine biosynthesis pro       conserved       conserved hyp         TAGC →       GCTAGC →       Conserved hypothetic       conserved hypothetic       conserved hypothetic         TAGC ↓       GCTAGC ↓       GCTAGC ↓       Conserved hypothetic       conserved hypothetic
	'9,000 79,500 80,000 80,500 81,000 81,500 82,000 82,500 83,000 83,500 84,000 84,500 85,500 86,000 86,500 87,000 87,500 88,000
	ical protein CDS DNA repair protein RadC CDS conserved hypothetical protein CDS glyoxalase/bleomycin resistance protein/dioxygenase CDS conserved hypothetical protein CDS DNA-binding HTH domain-protein CDS conjugal transfer pilus assembly protein TraF CDS integron integrase CDS conserved hypothetical protein CDS conserved hypothe
88,500	89,000 89,500 90,000 90,500 91,000 91,500 92,000 92,500 93,000 93,500 94,000 94,500 95,000 95,500 96,000 96,500 97,000 97,500 97,915
conjugative transfer	pilus assembly protein conjugal transfer mating pair stabilization protein TraG CDS conserved flagellar trans lytic transglyc conserved hypothetical pr pha HTH-type transcri CCTAGC GCTAGC GCTAGC GCTAGC