

**Table S6.** GenBank information for *stx2*-converting phage

<b>Host Strain or Phage Name<sup>a</sup></b>	<b>Accession number</b>	<b>Insertion site<sup>a</sup></b>	<b>Genomic region</b>	<b>Reference</b>
Sakai	BA000007	<i>wrbA</i>	1246012-1308719	[30]
EDL933	AE005174.2	<i>wrbA</i>	1330829-1392498	[58]
Xuzhou21	CP001925.1	<i>wrbA</i>	1247053-1310658	[89]
O103:H2 12009	AP010958.1	tRNA( <i>argW</i> )	2861734-2924345	[42]
O111:H- 11128	AP010960.1	<i>yecE</i>	2392300-2440434	[42]
EC4115	CP001164.1	tRNA( <i>argW</i> )	3234765-3297047	[53]
TW14359	CP001368.1	tRNA( <i>argW</i> )	3189636-3251918	[90]
O104:H4 2011C-3493	CP003289.1	<i>wrbA</i>	3248372-3317120	[41]
O104:H4 2009EL-2071	CP003301.1	<i>wrbA</i>	3298273-3366761	[41]
O104:H4 2009EL-2050	CP003297.1	<i>wrbA</i>	3240628-3309116	[41]
Stx2-86	AB255436	-	-	-
Stx2 phi I	AP004402	-	-	[91]
Stx2 phi II	AP005154	-	-	[92]
Min27	EU311208	-	-	[93]
TL-2011C	JQ011318	-	-	[43]
vB_EcoP_24B	HM208303	-	-	[20]
VT2Phi	HQ424691.1	-	-	[40]

<sup>a</sup> Insertion sites are only reported when phages were sequenced as part of a full genome project