

Table S1. Characterization of 14 Stx prophages in this study.

Strain	Stx subtype	Lenth(bp)	GC content	No. of CDS	tRNA
STEC434	<i>stx2d</i>	49648	52.1	72	3
STEC435	<i>stx1a</i>	48828	49.6	71	0
STEC435	<i>stx2b</i>	46213	52.7	61	1
STEC438	<i>stx1c</i>	64251	49.7	79	0
STEC509	<i>stx2e</i>	55219	48.9	89	3
STEC1585	<i>stx1c</i>	62413	49.7	77	0
STEC1586	<i>stx1c</i>	62816	49.6	85	0
STEC1586	<i>stx2b</i>	46072	53.4	64	1
STEC1587	<i>stx1a</i>	45826	52.3	65	0
STEC1588	<i>stx1a</i>	48278	50.9	72	0
STEC1588	<i>stx2a</i>	45120	52.5	63	3
STEC1589	<i>stx1c</i>	63085	49.6	82	0
STEC1590	<i>stx1c</i>	62821	49.6	81	0
STEC1590	<i>stx2b</i>	47889	53.1	65	1

“-”, The insertion site is undetermined

Insertion site
<i>yccA</i>
<i>yecE</i>
<i>yfhL</i>
<i>dmsB</i>
<i>yecE</i>
<i>wrbA</i>
<i>dmsB</i>
<i>yfhL</i>
<i>potC</i>
-
<i>dusA</i>
<i>dmsB</i>
<i>dmsB</i>
<i>yfhL</i>