

**Table S1. Whole genome sequenced isolates from Queensland STEC cases from between 2007 to 2016 (n=13)**

<b>Strain Name</b>	<b>Serotype</b>	<b>Accession Number</b>
<b>M71373</b>	O157:H-	<a href="#">SAMEA104371132</a>
<b>M7371</b>	O157:H-	<a href="#">SAMEA104371143</a>
<b>M74378</b>	O157:H-	<a href="#">SAMEA104371133</a>
<b>M74957</b>	O157:H7	<a href="#">SAMEA104371134</a>
<b>M75061</b>	O157:H-	<a href="#">SAMEA104371135</a>
<b>M75212</b>	O157:H-	<a href="#">SAMEA104371136</a>
<b>M76137</b>	O157:H-	<a href="#">SAMEA104371137</a>
<b>M76796</b>	O157:H-	<a href="#">SAMEA104371138</a>
<b>M76948</b>	O157:H-	<a href="#">SAMEA104371139</a>
<b>M77548</b>	O157:H-	<a href="#">SAMEA104371140</a>
<b>M78680</b>	O157:H-	<a href="#">SAMEA104371141</a>
<b>M78862</b>	O157:H-	<a href="#">SAMEA104371142</a>
<b>M79992</b>	O157:H-	<a href="#">SAMEA104371144</a>

**Table S2. Sanger sequenced isolates from Queensland STEC cases from between 2007 to 2016 (n=50)**

<b>Isolate</b>	<b>Serotype</b>
M71656	O157:H-
M73323	O157:H-
M72505	O157:H-
M74874	O157:H-
M75108	O157:H-
M75309	O157:H-
M76368	O157:H-
M71247	O157:H-
M71248	O157:H-
M71284	O157:H-
M71387	O157:H-
M71972	O157:H-
M71975	O157:H-
M73607	O157:H7
M74589	O157:H-
M75418	O157:H-
M72310	O157:H-
M72612	O157:H7
M75013	O157:H-
M73802	O157:H-
M75283	O157:H7
M75313	O157:H-
M77528	O157:H-
M72682	O157:H-
M72990	O157:H-
M76457	O157:H7
M77642	O157:H-
M7761	O157:H-
M7762	O157:H-
M7763	O157:H-
M7773	O157:H-
M7779	O157:H-
M7792	O157:H-
M7807	O157:H-
M7812	O157:H-
M7813	O157:H-
M7814	O157:H-
M7815	O157:H-
M7816	O157:H-
M72867	O157:H-
M74133	O157:H-
M74844	O157:H-
M74107	O157:H-
M75741	O157:H-
M75948	O157:H-
M78576	O157:H-
M76532	O157:H-
M78231	O157:H-
M78364	O157:H-
M74180	O157:H-

**Table S3. International *E. coli* strains used in this study (n=23)**

<b>Strain Name</b>	<b>Serotype</b>	<b>Accession Number</b>
155	O157:H7	<a href="#">CP018237</a>
272	O157:H7	<a href="#">CP018239</a>
1130	O157:H7	<a href="#">CP017434</a>
2149	O157:H7	<a href="#">CP017436</a>
2159	O157:H7	<a href="#">CP017438</a>
3384	O157:H7	<a href="#">CP017440</a>
4276	O157:H7	<a href="#">CP017442</a>
7784	O157:H7	<a href="#">CP018247</a>
8368	O157:H7	<a href="#">CP017444</a>
9000	O157:H7	<a href="#">CP018252</a>
9234	O157:H7	<a href="#">CP017446</a>
CB9615	O55:H7	<a href="#">CP001846</a>
EC4115	O157:H7	<a href="#">CP001164</a>
EDL933	O157:H7	<a href="#">AE005174</a>
FRIK2069	O157:H7	<a href="#">CP015846</a>
FRIK2455	O157:H7	<a href="#">CP015843</a>
FRIK2533	O157:H7	<a href="#">CP015842</a>
FRIK944	O157:H7	<a href="#">CP016625</a>
JEONG-1266	O157:H7	<a href="#">CP014314</a>
Sakai	O157:H7	<a href="#">BA000007</a>
SS52	O157:H7	<a href="#">CP010304</a>
TW14359	O157:H7	<a href="#">CP001368</a>
WS4202	O157:H7	<a href="#">CP012802</a>